
PeopleSoft Cloud Manager Image 07

September 2018

PeopleSoft Cloud Manager Image 07

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Preface

Understanding the PeopleSoft Online Help and PeopleBooks

The PeopleSoft Online Help is a website that enables you to view all help content for PeopleSoft Applications and PeopleTools. The help provides standard navigation and full-text searching, as well as context-sensitive online help for PeopleSoft users.

PeopleSoft Hosted Online Help

You access the PeopleSoft Online Help on Oracle's PeopleSoft Hosted Online Help website, which enables you to access the full help website and context-sensitive help directly from an Oracle hosted server. The hosted online help is updated on a regular schedule, ensuring that you have access to the most current documentation. This reduces the need to view separate documentation posts for application maintenance on My Oracle Support, because that documentation is now incorporated into the hosted website content. The Hosted Online Help website is available in English only.

Note: Only the most current release of hosted online help is updated regularly. After a new release is posted, previous releases remain available but are no longer updated.

Locally Installed Help

If you are setting up an on-premises PeopleSoft environment, and your organization has firewall restrictions that prevent you from using the Hosted Online Help website, you can install the PeopleSoft Online Help locally. If you install the help locally, you have more control over which documents users can access and you can include links to your organization's custom documentation on help pages.

In addition, if you locally install the PeopleSoft Online Help, you can use any search engine for full-text searching. Your installation documentation includes instructions about how to set up Elasticsearch for full-text searching. See *PeopleSoft 9.2 Application Installation* for your database platform, "Installing PeopleSoft Online Help." If you do not use Elasticsearch, see the documentation for your chosen search engine.

Note: See [Oracle Support Document 2205540.2 \(PeopleTools Elasticsearch Home Page\)](#) for more information on using Elasticsearch with PeopleSoft.

Note: Before users can access the search engine on a locally installed help website, you must enable the Search field. For instructions, go to your locally installed PeopleSoft Online Help site and select About This Help >Managing Locally Installed PeopleSoft Online Help >Enabling the Search Button and Field in the Contents sidebar.

Downloadable PeopleBook PDF Files

You can access downloadable PDF versions of the help content in the traditional PeopleBook format. The content in the PeopleBook PDFs is the same as the content in the PeopleSoft Online Help, but it has

a different structure and it does not include the interactive navigation features that are available in the online help.

Common Help Documentation

Common help documentation contains information that applies to multiple applications. The two main types of common help are:

- Application Fundamentals
- Using PeopleSoft Applications

Most product families provide a set of application fundamentals help topics that discuss essential information about the setup and design of your system. This information applies to many or all applications in the PeopleSoft product family. Whether you are implementing a single application, some combination of applications within the product family, or the entire product family, you should be familiar with the contents of the appropriate application fundamentals help. They provide the starting points for fundamental implementation tasks.

In addition, the *PeopleTools: Applications User's Guide* introduces you to the various elements of the PeopleSoft Pure Internet Architecture. It also explains how to use the navigational hierarchy, components, and pages to perform basic functions as you navigate through the system. While your application or implementation may differ, the topics in this user's guide provide general information about using PeopleSoft Applications.

Field and Control Definitions

PeopleSoft documentation includes definitions for most fields and controls that appear on application pages. These definitions describe how to use a field or control, where populated values come from, the effects of selecting certain values, and so on. If a field or control is not defined, then it either requires no additional explanation or is documented in a common elements section earlier in the documentation. For example, the Date field rarely requires additional explanation and may not be defined in the documentation for some pages.

Typographical Conventions

The following table describes the typographical conventions that are used in the online help.

<i>Typographical Convention</i>	<i>Description</i>
Key+Key	Indicates a key combination action. For example, a plus sign (+) between keys means that you must hold down the first key while you press the second key. For Alt+W, hold down the Alt key while you press the W key.
. . . (ellipses)	Indicate that the preceding item or series can be repeated any number of times in PeopleCode syntax.
{ } (curly braces)	Indicate a choice between two options in PeopleCode syntax. Options are separated by a pipe (|).
[] (square brackets)	Indicate optional items in PeopleCode syntax.

<i>Typographical Convention</i>	<i>Description</i>
& (ampersand)	<p>When placed before a parameter in PeopleCode syntax, an ampersand indicates that the parameter is an already instantiated object.</p> <p>Ampersands also precede all PeopleCode variables.</p>
⇒	<p>This continuation character has been inserted at the end of a line of code that has been wrapped at the page margin. The code should be viewed or entered as a single, continuous line of code without the continuation character.</p>

ISO Country and Currency Codes

PeopleSoft Online Help topics use International Organization for Standardization (ISO) country and currency codes to identify country-specific information and monetary amounts.

ISO country codes may appear as country identifiers, and ISO currency codes may appear as currency identifiers in your PeopleSoft documentation. Reference to an ISO country code in your documentation does not imply that your application includes every ISO country code. The following example is a country-specific heading: "(FRA) Hiring an Employee."

The PeopleSoft Currency Code table (CURRENCY_CD_TBL) contains sample currency code data. The Currency Code table is based on ISO Standard 4217, "Codes for the representation of currencies," and also relies on ISO country codes in the Country table (COUNTRY_TBL). The navigation to the pages where you maintain currency code and country information depends on which PeopleSoft applications you are using. To access the pages for maintaining the Currency Code and Country tables, consult the online help for your applications for more information.

Region and Industry Identifiers

Information that applies only to a specific region or industry is preceded by a standard identifier in parentheses. This identifier typically appears at the beginning of a section heading, but it may also appear at the beginning of a note or other text.

Example of a region-specific heading: "(Latin America) Setting Up Depreciation"

Region Identifiers

Regions are identified by the region name. The following region identifiers may appear in the PeopleSoft Online Help:

- Asia Pacific
- Europe
- Latin America
- North America

Industry Identifiers

Industries are identified by the industry name or by an abbreviation for that industry. The following industry identifiers may appear in the PeopleSoft Online Help:

- USF (U.S. Federal)
- E&G (Education and Government)

Translations and Embedded Help

PeopleSoft 9.2 software applications include translated embedded help. With the 9.2 release, PeopleSoft aligns with the other Oracle applications by focusing our translation efforts on embedded help. We are not planning to translate our traditional online help and PeopleBooks documentation. Instead we offer very direct translated help at crucial spots within our application through our embedded help widgets. Additionally, we have a one-to-one mapping of application and help translations, meaning that the software and embedded help translation footprint is identical—something we were never able to accomplish in the past.

Using and Managing the PeopleSoft Online Help

Click the Help link in the universal navigation header of any page in the PeopleSoft Online Help to see information on the following topics:

- What's new in the PeopleSoft Online Help.
- PeopleSoft Online Help accessibility.
- Accessing, navigating, and searching the PeopleSoft Online Help.
- Managing a locally installed PeopleSoft Online Help website.

Contact Us

Send your suggestions to PSOFT-INFODEV_US@ORACLE.COM. Please include release numbers for the PeopleTools and applications that you are using.

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Chapter 1

Getting Started with PeopleSoft Cloud Manager

Understanding PeopleSoft Cloud Manager

This topic discusses:

- PeopleSoft Cloud Manager overview
- PeopleSoft Cloud Manager features
- PeopleSoft Cloud Manager process flow
- Minimum requirements for PeopleSoft Cloud Manager
- Common abbreviations

PeopleSoft Cloud Manager is an orchestration framework to provision and manage PeopleSoft environments on Oracle Cloud Infrastructure (OCI). The PeopleSoft Cloud Manager can help creating task specific environments that can last as long as the task is needed. PeopleSoft Cloud Manager will enable you to focus more on business and less on infrastructure management by taking away all the complexities involved in acquiring and managing the infrastructure to run PeopleSoft on OCI.

PeopleSoft Cloud Manager is an application available on the Oracle Cloud Marketplace. Any existing PeopleSoft customer can use it by taking advantage of the Oracle Cloud Service resources.

Starting with Cloud Manager Update Image 6, Cloud Manager supports two flavors: Oracle Cloud Infrastructure–Classic, in short referred to as OCI–Classic, and Oracle Cloud Infrastructure, or simply OCI. OCI is a set of complementary cloud services that enable you to build and run a wide range of applications and services in a highly available hosted environment.

Common Abbreviations

<i>Term</i>	<i>Description</i>
DPK	PeopleSoft Deployment Packages
PCM	PeopleSoft Cloud Manager
PI	PeopleSoft Image
PRP	PeopleSoft Release Patchset
PUM	PeopleSoft Update Manager

Term	Description
OCI	Oracle Cloud Infrastructure
OCI–Classic	Oracle Cloud Infrastructure — Classic
AD	Availability Domain
VCN	Virtual Cloud Network
TDE	Transparent Data Encryption
OCID	Oracle Cloud ID

Minimum Requirements for PeopleSoft Cloud Manager

Listed below are the minimum requirements for using PeopleSoft Cloud Manager:

- Minimum Apps version for managed environments is 9.2.
- Minimum PeopleTools version for managed environment is 8.55.12. For provisioning COBOL and ElasticSearch, the minimum tools version is 8.55.13.
- COBOL provisioning with PeopleTools is supported from 8.56.09 onward.
- Minimum shape of Cloud Manager for OCI–Classic is oc1m and for OCI is VM.Standard 1.1.
- Minimum file server capacity is 250 GB.
- (For OCI only) Prepare the tenancy for PeopleSoft applications deployment. As part of preparing the tenancy, the following must be created:
 - At least one compartment for PeopleSoft deployments.
 - A OCI user with sufficient privileges to create and manage resources in the identified compartment.
 - A Virtual Cloud Network (VCN) with required number of subnets
 - An object storage bucket.

PeopleSoft Cloud Manager – An Overview

Cloud Manager provides a framework for customers to provision and administer the life cycle of PeopleSoft environments on OCI. Cloud Manager brings in the agility to rapidly bring up PeopleSoft environments on demand, based on your infrastructure requirements.

Features of PeopleSoft Cloud Manager

PeopleSoft Cloud Manager provides the ability to:

- Provision PeopleSoft environments on OCI and OCI–Classic.

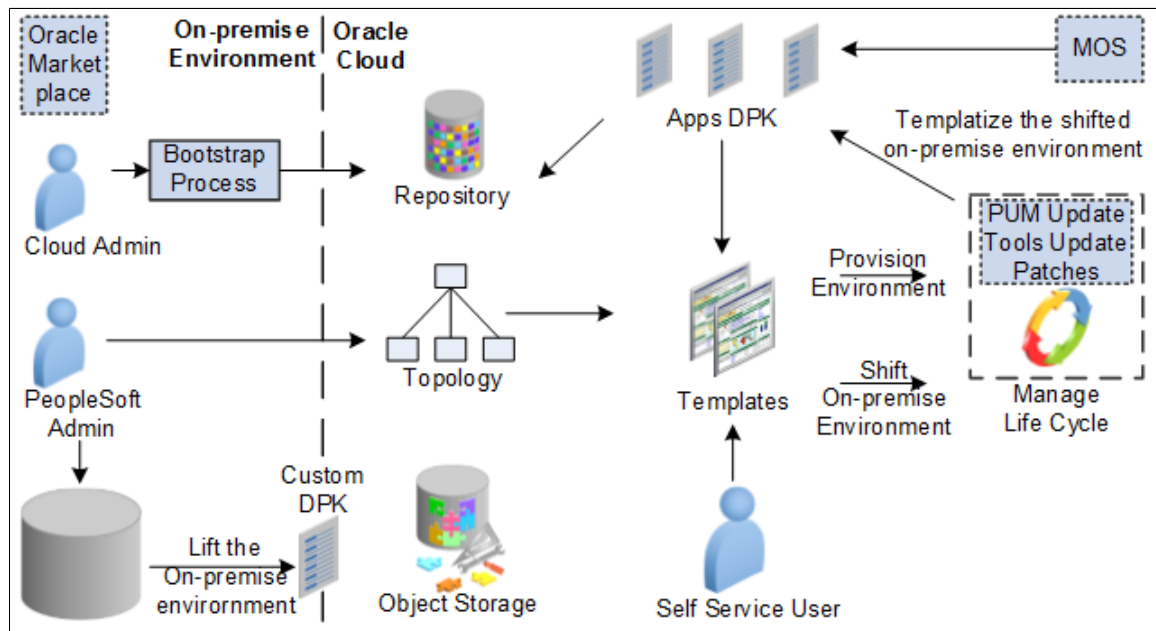
- Support lifting and shifting of non-unicode database.
- Support lifting and shifting of PeopleSoft application environments which have TDE encrypted databases. The on-premise environments must be TDE encrypted before migrating. This feature is supported only for OCI–Classic.
- Orchestrate deployment of PeopleSoft 9.2 applications on OCI–Classic and OCI.
- Subscription model to auto download application PIs and PRPs.
- Automate migration of on-premise environment to OCI.
- Create repeatable deployment templates.
- Self service provisioning of PeopleSoft environments.
- Fully automate deployment which is immune to manual errors and process delays.
- Manage multiple environments from a single page.
- Perform on-demand health checks on environments.
- Enable application lifecycle management in Oracle Cloud.
- Clone environments by creating templates from running instances.
- Access log files through UI for easy troubleshooting.
- View the status of environment provisioning.
- REST API support, which allows customers and testers to automate their interactions with Cloud Manager, bypassing the web UI.
- Self update to a newer CM image.
- Define and configure web, app domains in topology/template definitions.
- Synchronize with the existing environment and ensure it has the most recent status.
- Automate PeopleTools Upgrade from 8.55 to 8.56 and other PeopleTools updates.
- Enable file server creation from PeopleSoft Cloud Manager UI.
- Migrate managed instances from Launchplan based APIs to Orchestrations.

PeopleSoft Cloud Manager – Process Flow

This diagram illustrates the overall process involved in creating environments and migrating them to OCI.

Image: PeopleSoft Cloud Manager Process Overview

This diagram illustrates the process flow of the PeopleSoft Cloud Manager process.



The process of using Cloud Manager to create, deploy, and manage PeopleSoft environments are explained in the following topics:

- [Configuring Cloud Manager](#)
- [User Configuration for Cloud Manager](#)
- [Managing Repository](#)
- [Managing Topology](#)
- [Managing Template](#)
- [Managing Environments](#)
- [Understanding the Lift and Shift Process](#)
- [Migrating TDE Encrypted Database to Oracle Cloud Infrastructure – Classic using PeopleSoft Cloud Manager](#)
- [Using the Lift Process to Migrate an Environment to the Oracle Cloud for OCI and OCI-Classic](#)
- [Using the Shift Process to Provision the Migrated Environment from the Oracle Cloud](#)
- [Understanding Cloud Manager Backup and Restore](#)
- [Understanding PeopleSoft Cloud Manager Logs](#)

For more details, see the VFO on PeopleSoft Cloud Manager.



[PeopleSoft Cloud Manager](#)

Chapter 2

Setting Up PeopleSoft Cloud Manager

Configuring Cloud Manager

This topic discusses the following:

- [Configuring Cloud Manager for OCI–Classic](#)
- [Configuring Cloud Manager for OCI](#)

Installation documentation for OCI and OCI–Classic is posted on the PeopleSoft Cloud Manager Home Page (My Oracle Support DOC ID: 2231255.2), Installation and Implementation tab. [PeopleSoft Cloud Manager Home Page](#)

Configuring Cloud Manager for OCI–Classic

The steps involved in Cloud Manager Configuration for OCI–Classic are:

- Configuring Cloud Manager Settings
- Configuring My Settings
- Configuring File Server

Pages Used to Configure Cloud Manager for OCI–Classic

Page Name	Definition Page	Usage
Cloud Manager Settings Tile	ECL_CMCONFIG_FL_GBL (CREF for the tile)	To access the Cloud Manager Settings page.
Cloud Manager Settings Page	ECL_CMCONFIG_FL	To change the system settings as per requirement.
Cloud Manager Settings – File Server Page	ECL_CMFILESERV_FL	To configure file server as repository for Cloud Manager.
Cloud Manager Settings – VM Size Page	ECL_SET_SIZE_FL	To map VM Size to a Shape in Oracle Public Sector Cloud.
Cloud Manager Settings – Manage PUM Connections Page	ECL_CMUPDATE_FL	To configure a PUM sources for updating the Cloud Manager application.
Cloud Manager Settings – Manage Updates Page	ECL_CMSELFUPD_FL	To manage application updates delivered through PeopleSoft IH Updates and PRPs

Page Name	Definition Page	Usage
<u>My Settings Tile</u>	ECL_INFO_HOME_FL_GBL (CREF for the tile)	To access the My Settings page.
<u>My Settings Page</u>	ECL_INFO_HOME_FL	To enter or edit the public SSH key.
For OCI: <u>Cloud Manager Settings Page</u>	ECL_CMCFG_OCI_FL	To change the system settings as per requirements in OCI.
For OCI: <u>Cloud Manager Settings – Infrastructure Settings Page</u>	ECL_OCICFG_OCI_FL	To configure OCI-related settings for environment provisioning and management.
For OCI: <u>Cloud Manager Settings – File Server Page</u>	ECL_CMFILESERV_FL	To configure file server as repository for Cloud Manager in OCI.
For OCI: <u>Cloud Manager Settings – Manage Updates Page</u>	ECL_CMSELFUPD_FL	To manage application updates delivered through PeopleSoft IH Updates and PRPs in OCI.

Cloud Manager Settings Tile

Use the Cloud Manager Settings tile (ECL_CMCONFIG_FL_GBL) to access the Cloud Manager Settings page.

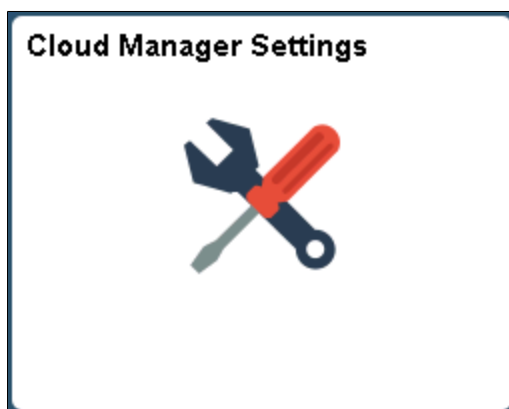
Note: Only a Cloud Manager Administrator can view this tile on the Cloud Manager home page.

Navigation

The Cloud Manager Settings tile is delivered as part of the Cloud Manager home page.

Image: Cloud Manager Settings Tile

This example illustrates the Cloud Manager Settings tile.



Cloud Manager Settings Page

Use the Cloud Manager Settings page (ECL_CMCONFIG_FL) to change the system settings as per the requirement.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. By default, the details that were provided during Cloud Manager bootstrap process are displayed.

Image: Cloud Manager Settings Page (1 of 2)

This example illustrates the fields and controls on the Cloud Manager Settings page.

Cloud Manager

Cloud Manager Settings

Save Settings

Settings

File Server

VM Size

Manage PLM Connections

Manage updates

Logs

Oracle Cloud Service

Domain Name

User Name

Password

Storage Account name

Compute REST Endpoint

DBaaS REST Endpoint

IDCS Storage REST Endpoint

IDCS Storage Auth REST Endpoint

My Oracle Support(MOS) Credentials

PeopleSoft Credentials for REST Services

Lift & Shift Container

Image: Cloud Manager Settings Page (2 of 2)

This example illustrates the fields and controls on the Cloud Manager Settings page.

Cloud Manager

Cloud Manager Settings

Save Settings

Settings

File Server

VM Size

Manage PLM Connections

Manage updates

Logs

PeopleSoft Cloud Manager enables you to download PeopleSoft Application Maintenance and PeopleTools Patches directly from MOS.

PeopleSoft Credentials for REST Services

Lift & Shift Container

Cobol License

Operating System Image

File Server Details

Only a Cloud Manager Administrator is allowed to change the system settings under this page.

Various sections available in the Cloud Manager Settings page are:

- Oracle Cloud Service
- My Oracle Support (MOS) Credentials
- PeopleSoft Credentials for REST Services
- Lift and Shift Container
- Cobol License
- Operating System Image
- File Server Details

Click Save Settings to save the details.

Oracle Cloud Service

This section refers to the Oracle Cloud Identity Domain and credentials to access Oracle Cloud Compute and Database Cloud Service. In this section, you need to define the REST endpoints of the Oracle Cloud Services.

Image: Oracle Cloud Service

This example illustrates the fields and controls on the Oracle Cloud Service section.

The screenshot shows the 'Oracle Cloud Service' configuration page. It contains the following fields and values:

Field	Value
Domain Name	psftoowdemo
User Name	xxx@oracle.com
Password	.....
Storage Account name	
Compute REST Endpoint	https://api-zxx.compute.1xx.oraclecloud.com
DBaaS REST Endpoint	https://dbaas.oraclecloud.com/
IDCS Storage REST Endpoint	https://xx.storage.oraclecloud.com/xx/storage
IDCS Storage Auth REST Endpoint	https://xx.storage.oraclecloud.com/auth/v1.0

Domain Name Enter your Oracle Cloud Service Identity Domain. Length of Environment name and identity domain name should not exceed 25 characters.

User Name Enter your Oracle Cloud Service account ID.

Password Enter the password for your Oracle Cloud Service account.

Note: Currently, you are not allowed to enter special characters such as ‘ “ \ # in the Password field.

Storage Account name

Enter the name for your Storage Classic account. You can find this in the Oracle Cloud Infrastructure Object Storage Classic Overview page.

Compute REST Endpoint

Enter the REST API endpoint URL of Oracle Cloud Service. You can find the REST endpoint on the Service Details page for your Identity Domain, or on the Instance Details page.

DBaaS REST Endpoint

Enter the REST API endpoint URL for Oracle Database Cloud Service. You can find the DBaaS REST Endpoint in My Services dashboard for your identity domain or on the Oracle Database Cloud Service Details page.

IDCS Storage REST Endpoint and IDCS Storage Auth REST Endpoint

Enter the REST API endpoint URL of Oracle Cloud Infrastructure. The Storage REST Endpoint and Auth Endpoint URLs are located within the Additional Information section of the Overview page.

For details on how to fetch the Storage REST Endpoint and Auth Endpoint URLs (based on your account) refer [Fetching the Storage REST Endpoint and Auth Endpoint URLs for IDCS Account](#) or [Fetching the Storage REST Endpoint and Auth Endpoint URLs for Non-IDCS Account](#).

My Oracle Support (MOS) Credentials

This refers to My Oracle Support (MOS) username and password inputs. Using this credential, Cloud Manager downloads the required updates, PIs and PRPs from MOS. Please ensure to read the MOS License information and click the links to read about the My Oracle Support terms of use and privacy policy.

Image: My Oracle Support (MOS) Credentials

This example illustrates the fields and controls on the Oracle Cloud Service section.

My Oracle Support(MOS) Credentials

PeopleSoft Cloud Manager enables you to download PeopleSoft Application Maintenance and PeopleTools Patches directly from MOS. To use MOS, you must create an Oracle Single SignOn (SSO) account and register at least one support identifier(SI) with MOS. Please ensure to enter the credentials of the registered account in this page. Use of MOS is subject to its terms of use and Oracle Private Policy. See [MOS Terms of use](#) and [Oracle Privacy Policy](#)

User ID

xxx.xxx@oracle.com

Password

••••

Url

https://updates.oracle.com

User ID

Enter the user ID for your My Oracle Support account.

Password

Enter the password for your My Oracle Support account.

URLEnter the URL: <https://updates.oracle.com>

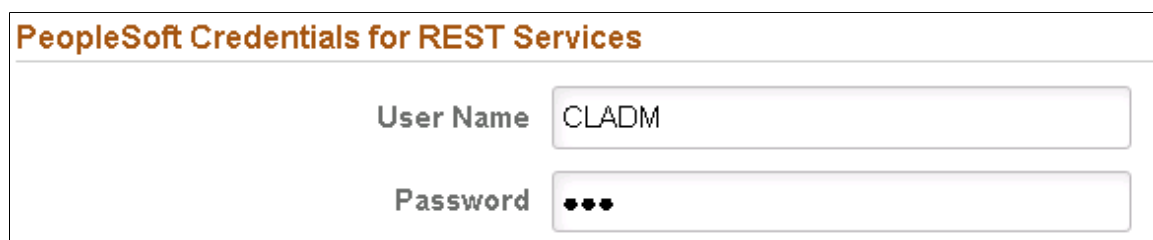
Note: Read the MOS License information. Click the links to understand My Oracle Support terms of use and privacy policy.

PeopleSoft Credentials for REST Services

REST services are standard IB REST services available in the Cloud Manager instance. These REST services are used internally by Cloud Manager modules to send/receive the results of long-running, asynchronous activities.

Image: PeopleSoft Credentials for REST Services

This example illustrates the fields and controls on the PeopleSoft Credentials for REST Services section.

**User Name**

Enter the delivered Cloud Manager Administrator user name.

Password

Enter the delivered Cloud Manager Administrator password.

Note: You can't edit the user name and password.

Determining REST Endpoint from the Zone Selector

User can also determine REST endpoint from the zone selector on which Cloud Manager is created.

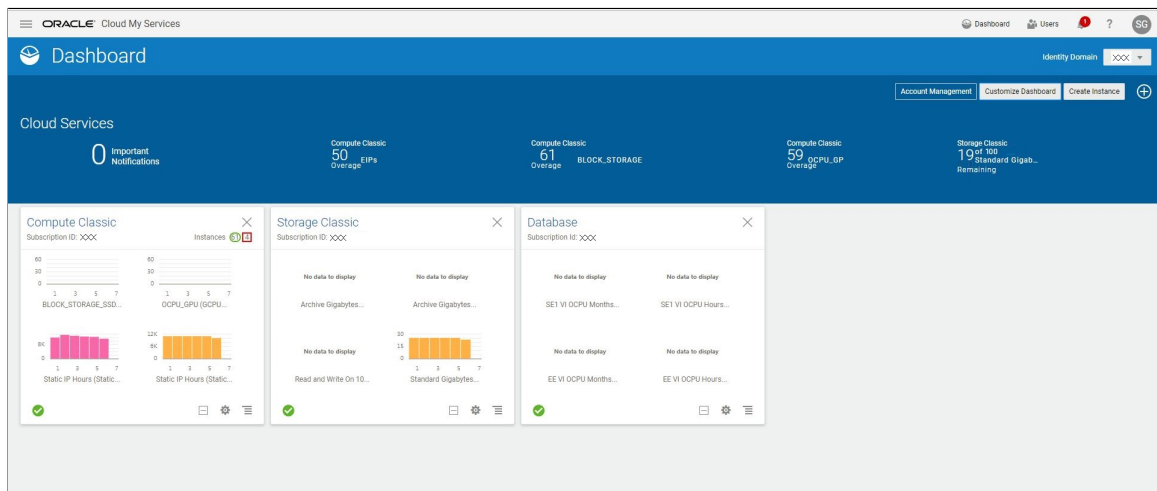
Perform the following steps to determine REST endpoint from zone selector.

1. Access Oracle Cloud Services.
2. Select Traditional Cloud Account.
3. Select the required Data Center.
4. Click My Services link.
5. Enter your identity domain.
6. Enter your Cloud credentials in the Oracle My Services – Dashboard page.

You can use the Customize Dashboard option to set your preferences in viewing the dashboard.

Image: Oracle My Services – Dashboard page

This example illustrates the fields and controls on the Oracle My Services – Dashboard page.



7. Click Compute.
8. Click Open Service Console button to view the service details. You can see the site as XX000_X00 as seen in the image below.

Image: Oracle Cloud My Services – Instances page

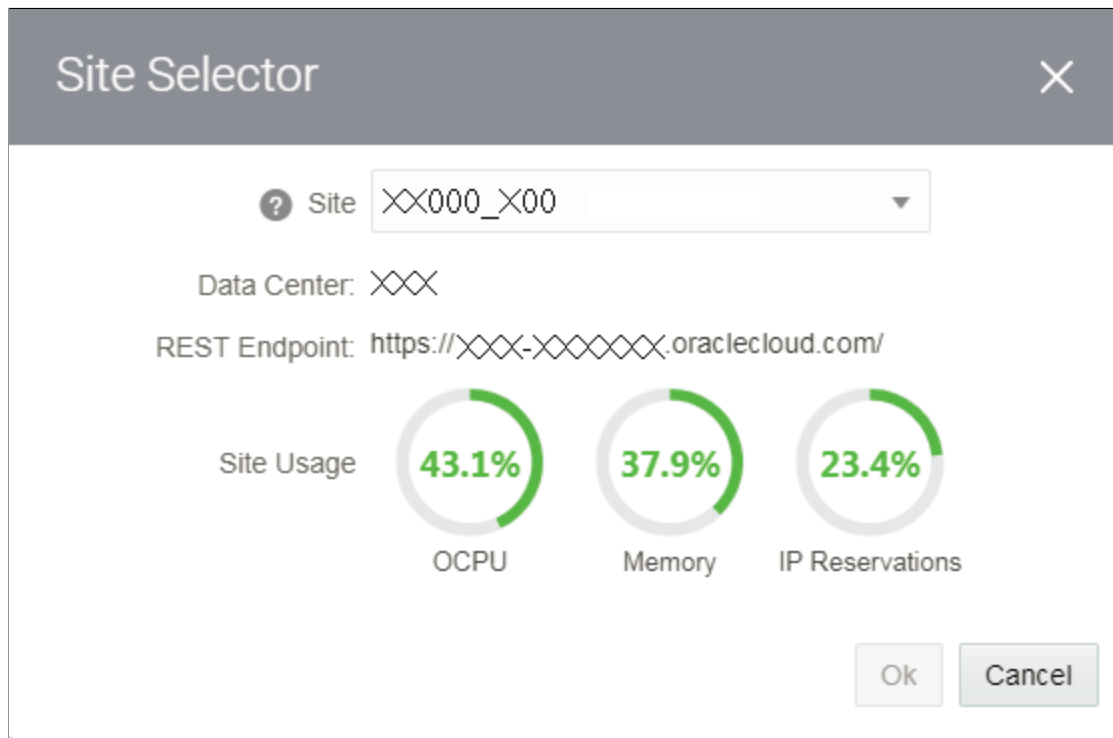
This example illustrates the fields and controls on the Oracle Cloud My Services – Instances page. You can find definitions for the fields and controls later on this page.

Name	Status	OCPUs	Memory	Volumes	Public IP	Private IP
XX000-Instdb-2	Running	1	15 GB	230 GB	XXXXXXXXXX	XXXXXXXXXX
XX000-Instext-1	Running	1	15 GB	130 GB	XXXXXXXXXX	XXXXXXXXXX
XX000-wimwc-3	Running	1	15 GB	60 GB	XXXXXXXXXX	XXXXXXXXXX
XX000_VM	Running	2	15 GB	150 GB	XXXXXXXXXX	XXXXXXXXXX
XX000_Mid	Running	1	7.5 GB	211 GB	XXXXXXXXXX	XXXXXXXXXX
XX000_Linux	Running	2	15 GB	200 GB	XXXXXXXXXX	XXXXXXXXXX
XX000_Windows	Running	2	15 GB	250 GB	XXXXXXXXXX	XXXXXXXXXX
XX000-2	Running	1	15 GB	60 GB	XXXXXXXXXX	XXXXXXXXXX
Instdb-2/db_1/XX000	Running	1	15 GB	342 GB	XXXXXXXXXX	XXXXXXXXXX
FS05XX000	Running	1	15 GB	280 GB	XXXXXXXXXX	XXXXXXXXXX
FS05XX000	Running	1	15 GB	630 GB	XXXXXXXXXX	XXXXXXXXXX
XX000-Instext-1	Running	1	15 GB	130 GB	XXXXXXXXXX	XXXXXXXXXX
XX000-Instf-1	Running	1	15 GB	130 GB	XXXXXXXXXX	XXXXXXXXXX

9. Click on the Site as displayed. The Site Selector modal window is displayed where you can find the REST Endpoint as shown.

Image: Site Selector Modal Window

This example illustrates the fields and controls on the Site Selector Modal Window.



The Site Selector modal window displays the following fields and controls:

- Site:** A dropdown menu with a question mark icon and the value "XX000_X00".
- Data Center:** A text field with the value "XXX".
- REST Endpoint:** A text field with the value "https://XXX-XXXXXXXXX.oraclecloud.com/".
- Site Usage:** Three circular progress indicators showing usage percentages:
 - OCPU:** 43.1%
 - Memory:** 37.9%
 - IP Reservations:** 23.4%
- Buttons:** "Ok" and "Cancel" buttons at the bottom right.

Note: User must ensure to select REST endpoint of the site where Cloud Manager is deployed. The site here should be same where Cloud Manager is installed.

Lift and Shift Container

This section refers to the Oracle Cloud Storage Container name in which the lifted DPKs (Lifted DPK means migrated environment from your on premise environment through Lift process.) are stored. It is from this container that the list of lifted environments are displayed on the Lift and Shift page.

Image: Lift and Shift Container

This example illustrates the fields and controls on the Lift and Shift Container section.



The Lift & Shift Container section displays the following field:

- Container Name:** A text field with the value "psft_las".

Container Name

Displays the container name for information. The user is not allowed to edit the container name in the current version of Cloud Manager

Cobol License

Use this section to provide COBOL license details. COBOL installation is enabled on the topology by selecting COBOL field value as ‘Yes’ in the Features section of Edit Node modal window. For details on topology, see [Managing Topology](#).

Note: Oracle is the exclusive reseller of the Micro Focus COBOL compiler for use with PeopleSoft applications. Contact your Oracle sales representative for a license.

Image: COBOL license

This example illustrates the fields and controls on the Cobol License section.

Cobol License

Serial Number

License Key

••••

Serial Number

Enter your COBOL serial number. For example, PEOPLESOFT-XXXXXX.

License Key

Enter your COBOL license key. For example, 010xx xxxxx
xxxxx xxxxx xxxx xLA.

Operating System Image

This refers to OS images in Oracle Cloud that CM uses to provision VMs during environment creation. For details on how windows image gets the path from Oracle Cloud console, refer the *PeopleSoft Cloud Manager Installation Guide*.

Note: You need to configure Linux Image prior to configuring Operating System Image section. For details on obtaining Linux image, refer the *PeopleSoft Cloud Manager installation Guide*.

Note: While deploying a PI image which has PeopleTools 8.56, then a Windows image which is updated with latest Windows updates and patches must be used. If not, provisioning of PeopleSoft Client will fail. For details on Windows image update, refer the *PeopleSoft Cloud Manager Installation Guide*.

Image: Operating System Image

This example illustrates the fields and controls on the Operating System Image.

Operating System Image					2 rows
Description	OS Version	OS Image	Bootable Volume Size (GB)	OS Default	
Oracle Linux	6.6	/Compute-psftqa/XXX @oracle.com/XXX	30	YES	
Microsoft Windows Server	2012	/Compute-psftqa/XXX@oracle.com /Microsoft_Windows_Server_2012_R2	30	YES	

Description

Operating system description.

OS Version	Version of operating system. The OS image for Cloud Manager is available from Market Place. Customers can download into their image list and configure it here.
OS Image	OS images in Oracle Cloud.
Bootable Volume Size (GB)	The virtual boot volume that will be used to boot the VM instance. The size of the bootable volume must be at least 5% higher than the size of the machine image that you are associating with the storage volume. The size of the machine image is the “Uncompressed Size”. For example, suppose the compressed size of the machine image is 1 GB, but the uncompressed size might be 15 GB. In this case, the boot volume size must be 5% more than 15 GB.
OS Default	If Os Default field is set to 'Yes', the corresponding images will be used for environment provisioning. Currently, this feature is not implemented.

Enter information about operating system images that Cloud Manager will access, if available.

To obtain image information from the Images page, perform the following:

1. Sign in to Oracle Cloud, <https://cloud.oracle.com>.
2. On the Compute card, click the Actions menu and select Open Service Console.
3. Select the Images tab.
4. Hover over the image name to see the image URL.

If you already have an instance created out of an image, then perform the following:

1. Select the Instances tab.
2. Click the Menu icon for the instance and select View.
3. On the Instances Overview page, the Image URL is included in the Information section.

File Server Details

Displays the file server host name.

Image: File Server Details

This example illustrates the fields and controls on the File Server Details section.

File Server Details	
File Server Host	<input type="text" value="SgmFS2"/>

Cloud Manager Settings – File Server Page

Use Cloud Manager Settings – File Server page (ECL_CMFILESERV_FL) to configure file server as repository for Cloud Manager.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the File Server link displayed on the left panel.

Image: Cloud Manager Settings – File Server page (Before Deployment)

This example illustrates the fields and controls on the Cloud Manager Settings – File Server page (Before Deployment). You can find definitions for the fields and controls later on this page.

The screenshot shows the 'Cloud Manager Settings' page with the 'File Server' tab selected. The 'File Server Configuration' section includes the following fields and controls:

- File Server Name:** A text input field.
- VM Size:** A dropdown menu currently set to 'Small'.
- Boot Volume Size:** A text input field with '30' and a 'GB' unit indicator.
- Data Volume Size:** A text input field with a 'GB' unit indicator.
- Oracle Linux Image:** A text input field containing the path '/Compute-psftqa/user@company.com/PSF'.
- Status:** A text input field.
- Advanced Section:**
 - A toggle switch for 'Use existing fileserv volume' is currently turned 'ON' (YES).
 - An 'Existing Data Volume' text input field is located below the toggle.

File Server Name

Name of the File Server which you want to configure as repository.

VM Size

VM Size is used to select the shape of the File Server. Available VM sizes are Small, Medium, and Large.

Boot Volume Size

Size of the boot volume. Boot volume size must be at least 5% higher than the size of the machine image that you are associating with the storage volume. The size of the machine image is the “Uncompressed Size”. For example, suppose the compressed size of the machine image is 1 GB, but the uncompressed size might be 15 GB. In this case, the boot volume size must be 5% more than 15 GB.

Data Volume Size

Size of the data volume. All downloads are stored on the data volume.

Note: The size of the data volume should be large enough to accommodate future needs. The sizing should consider the need for downloading additional PeopleSoft update images and size of the lifted DPKs since during shift operation, the lifted DPKs are temporarily downloaded to the file server.

Oracle Linux Image

Linux image in Oracle Cloud that CM uses to provision VMs during environment creation.

Note: The Oracle Linux Image path is automatically taken from 'OS Image' section in the 'Cloud Manager Setting's page. It is a prerequisite to configure OS image in 'Cloud Manager Setting's page.

Status

File Server status. Different statuses are: Not Configured, Configured, Failed, and Validation Failed.

- **Not Configured:** The OS image and boot volume size in Cloud Manager Settings page is not configured. User cant initiate fileserver creation or re-use existing one without providing boot volume size and Oracle Linux Image in CM Settings page (under OS section). Create button is enabled in this state and status field will be empty.
- **Configured:** This status is displayed once the user sets the OS image and boot volume size. In this state, the user can create or reuse existing fileserver, if the remaining values are provided and if the validation check is successful. Create button is enabled in this state and status field will be empty. If the user clicks on Create button, backend validation and cloud admin call will be done in the order. us field will be shown as 'In progress'.
- **Failed:** This status is displayed when there is a failure in Cloud Admin. In this case, Delete button is enabled. On clicking of delete button, status will be changed to 'Clean up in progress' and Delete button would be disabled and greyed out.
- **Validation Failed:** This status is displayed when the OS image provided is invalid or instance name already available in OPC or there will be an authentication failure in OPC. In this case, instead of Create button, Delete button is displayed. The user can clean the metadata (database entries) using delete button and retry the provision. You cannot initiate OPC (Oracle Public Cloud) calls at this stage.

If the user clicks on delete button, the status is changed to 'Clean up in progress' and Delete button is disabled and greyed out. If the previous status was 'Validation failure', only the metadata will be deleted and Create button will get enabled. If the previous status was 'Failed', the cloud admin call (python program) will be initiated and metadata will be deleted only if cloud admin is executed successfully. If the previous state was 'Deletion Failed', only the metadata is cleaned up. Due to some reason, if deletion is failed in cloud admin, the user can click on Delete button again to clear the metadata. User need to manually delete the file server

through OPC Webconsole UI. If the cleanup completes successfully (without deletion failure) the page will move to initial state (after CM instance is up).

Use Existing File Server Volume

Select 'Yes' in this field to reuse file server volume.

Note: If you are reusing an existing file server volume, it is not recommended to use the old file server name. If an old file server's name is provided in the File Server Name field, then the provisioning of new file server will fail.

For details on reusing existing file server volume, refer Installation Guide OBE for Cloud Manager.

Existing Data Volume

Existing file server volume is displayed in this field. This field is available only when 'Yes' is selected in the Use Existing File Server Volume field.

Once the File Server is deployed in CM, you cannot enter or modify any attributes. The Cloud Manager Settings – File Server page after deployment appears as shown:

Image: Cloud Manager Settings - File Server Page (After Deployment)

This example illustrates the fields and controls on the Cloud Manager Settings - File Server Page (After Deployment). You can find definitions for the fields and controls later on this page.

The screenshot displays the 'Cloud Manager Settings' interface. On the left, a sidebar lists navigation options: Settings, File Server (highlighted), VM Size, Manage PUM Connections, Manage updates, and Logs. The main content area is titled 'File Server Configuration' and includes a 'Create' button. Below the title, it states 'Create and configure file server as repository for Cloud Manager.' The configuration fields are as follows:

File Server Name	drop14fsgp
VM Size	Small
Boot Volume Size	30 GB
Data Volume Size	150 GB
Oracle Linux Image	/Compute-psft/XXX@oracle.com
Status	Configured

At the bottom of the configuration section, there is a link labeled 'Advanced'.

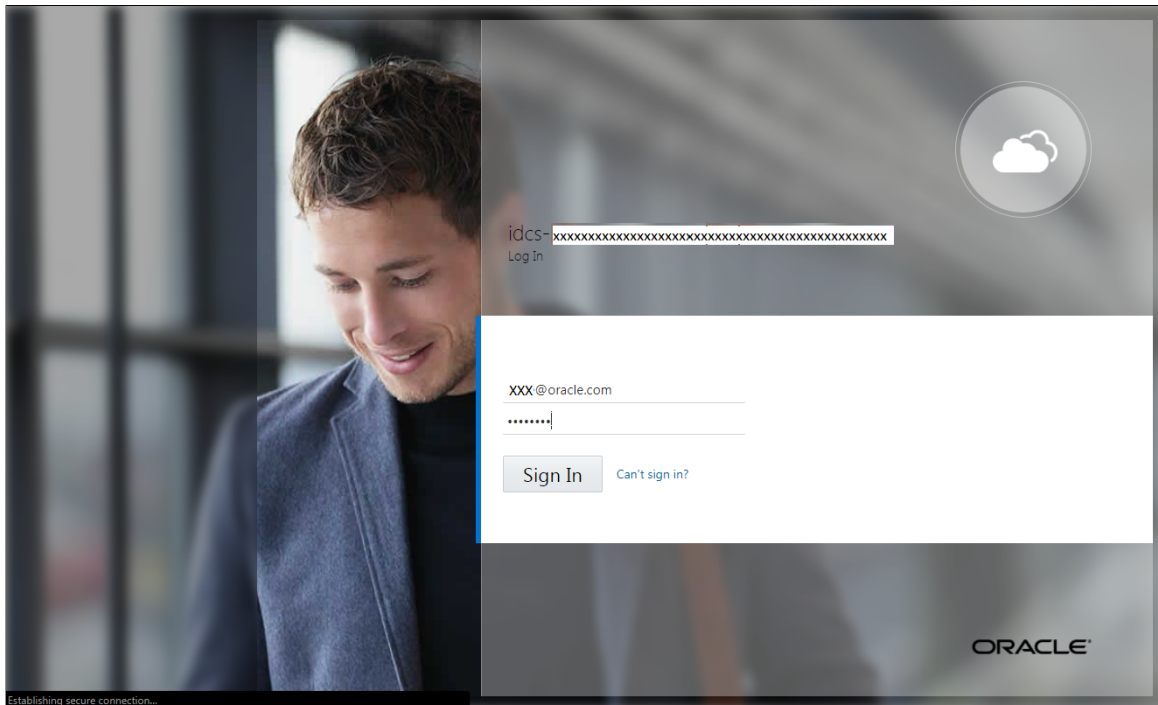
Fetching the Storage REST Endpoint and Auth Endpoint URLs for IDCS Account

Follow the steps below to fetch the Storage REST Endpoint and Auth Endpoint URLs for your IDCS account::

1. Log on to your IDCS Account with your credentials.

Image: IDCS Account login page

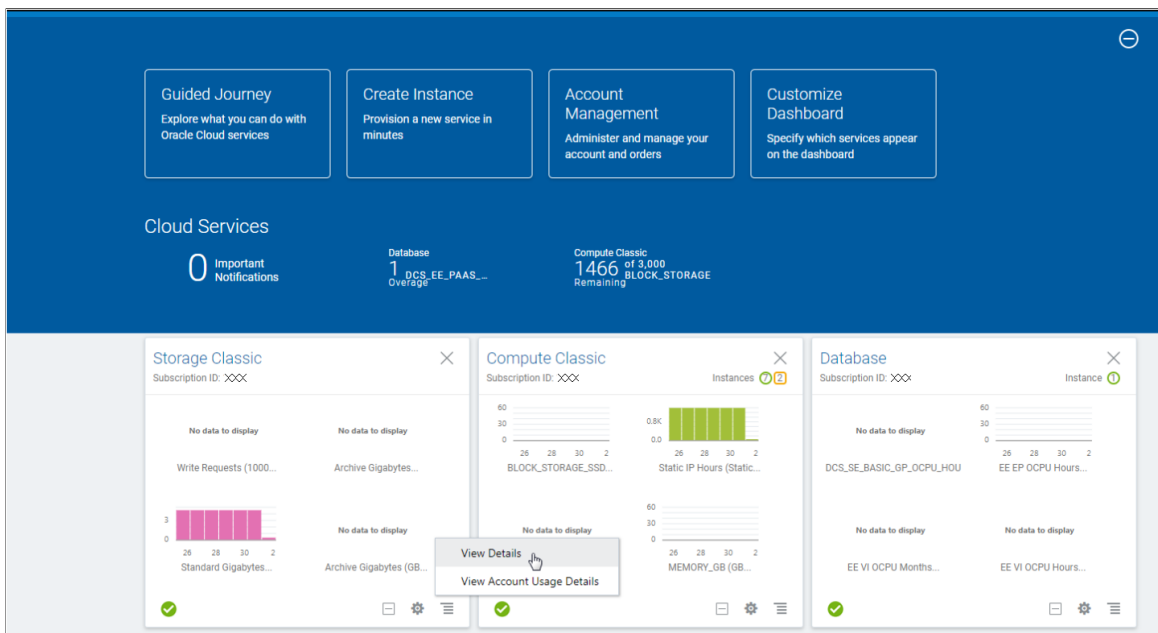
This example illustrates the IDCS Account login page.



- From the Dashboard, click Storage Classic and then click View Details.

Image: IDCS Account – Dashboard

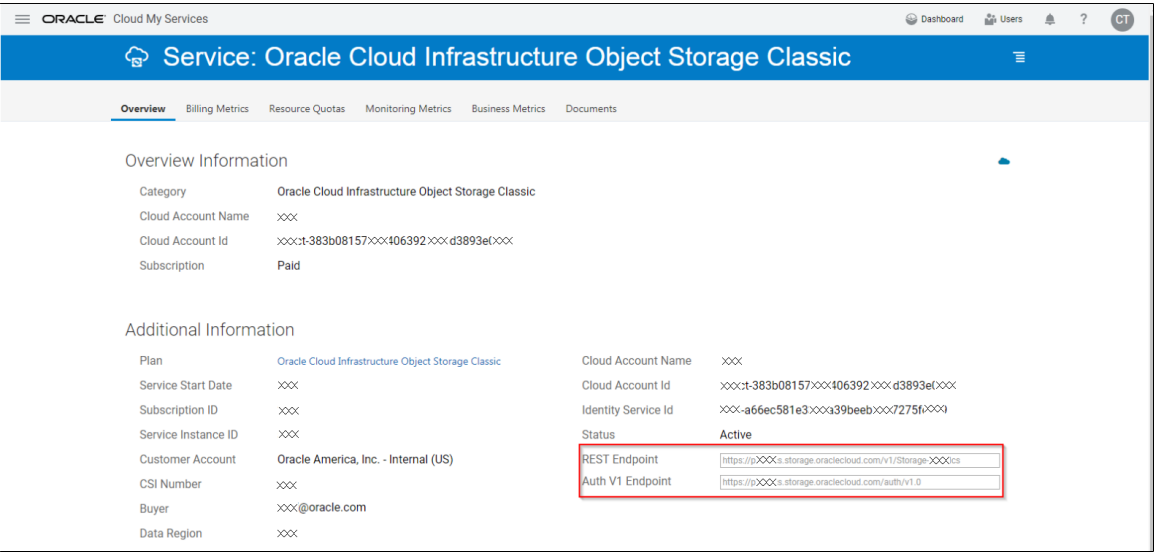
This example illustrates the IDCS Account – Dashboard.



- In the Overview page, under the Additional Information section, the Storage REST Endpoint and Auth Endpoint URLs are listed.

Image: IDCS Account – Overview page

This example illustrates the IDCS Account – Overview page.



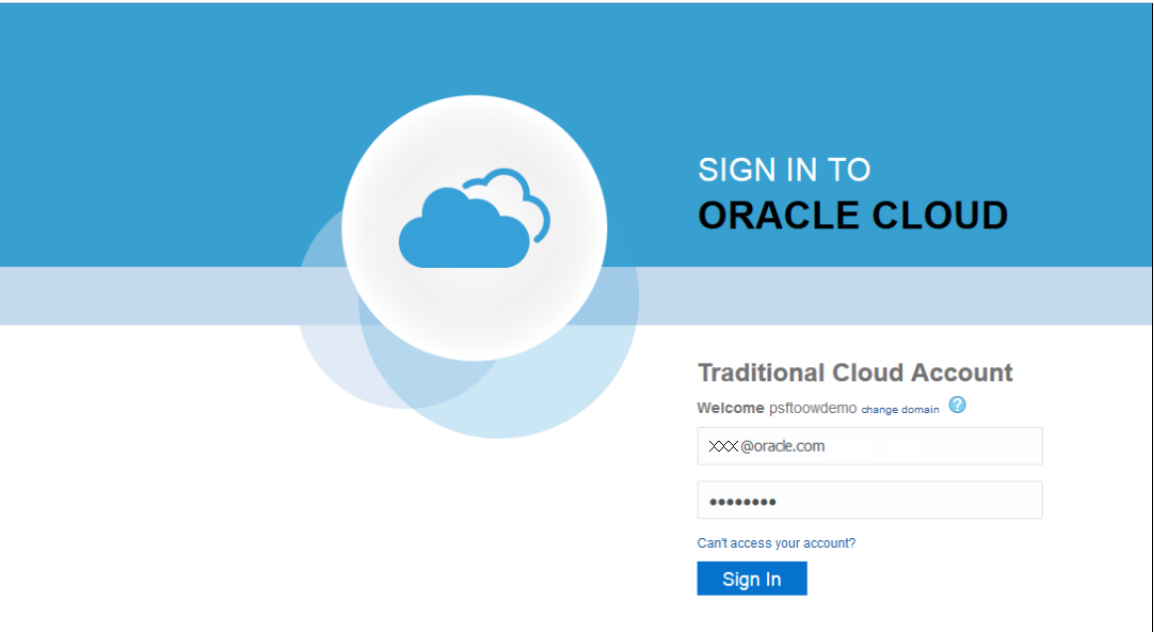
Fetching the Storage REST Endpoint and Auth Endpoint URLs for Non-IDCS Account

Follow the steps below to fetch the Storage REST Endpoint and Auth Endpoint URLs for your non-IDCS account:

- 1. Log on to the OCI–Classic console using the user Identity domain and credentials.

Image: Traditional Cloud Account login page

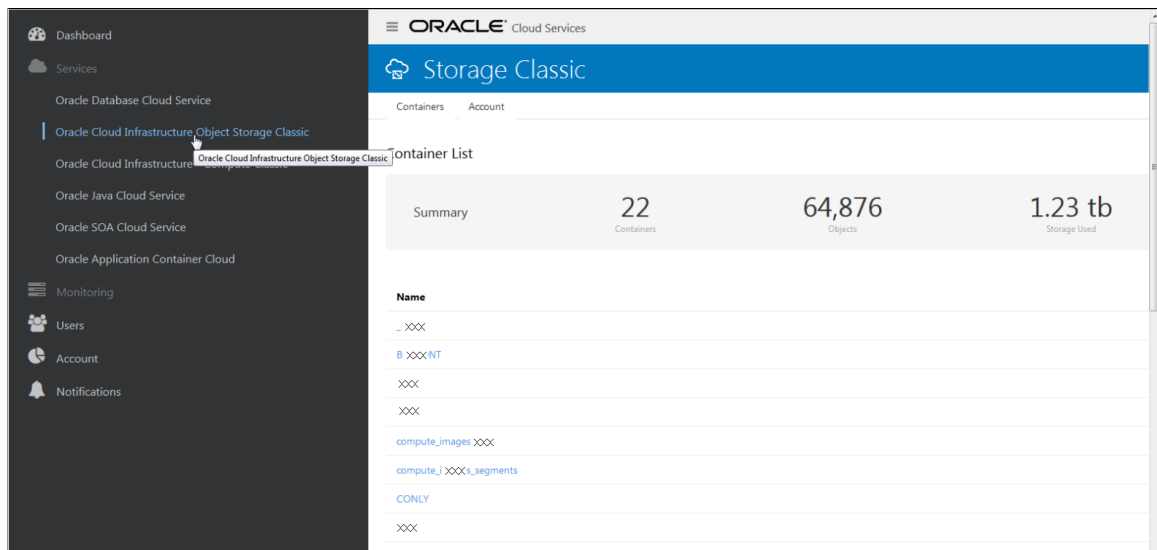
This example illustrates the Traditional Cloud Account login page.



- Navigate to Oracle Cloud Infrastructure Object Storage Classic.

Image: Oracle Cloud Infrastructure Object Storage Classic

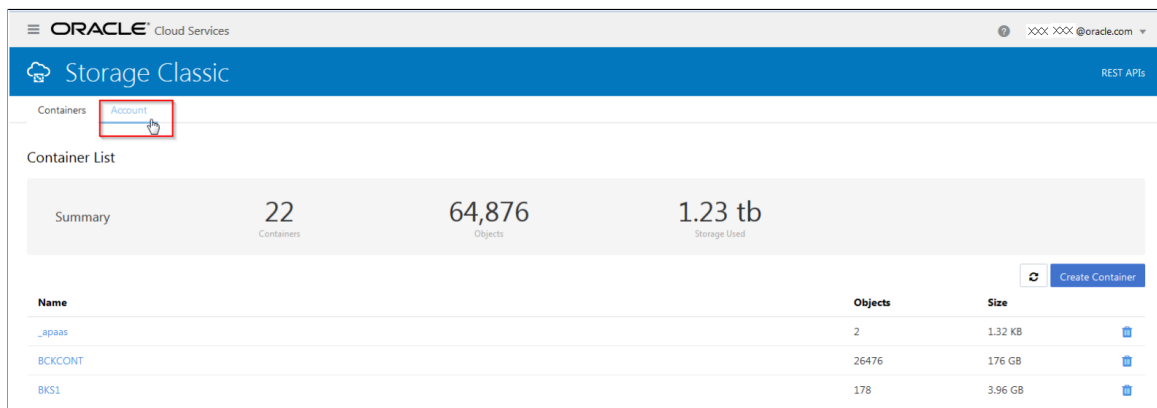
This example illustrates the Oracle Cloud Infrastructure Object Storage Classic.



- Click Account.

Image: Storage Classic Page – Account Page

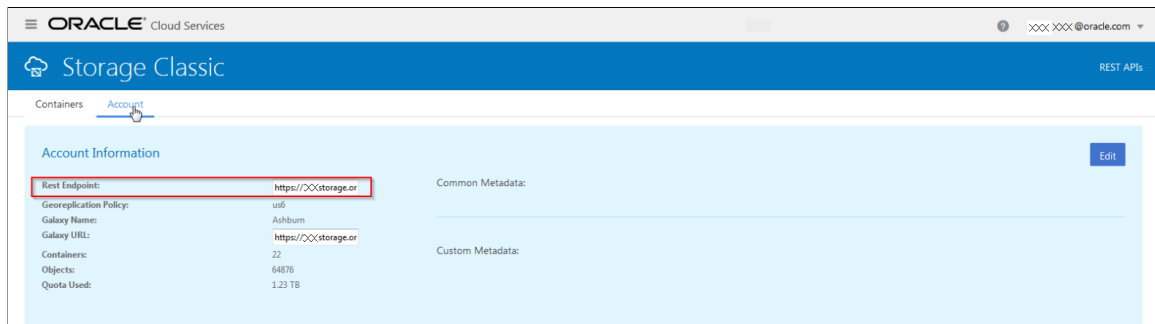
This example illustrates the Storage Classic Page – Account page.



- The Rest Endpoint is listed under Account Information.

Image: Storage Classic Page

This example illustrates the Storage Classic page.



If the Auth REST Endpoint is not displayed here, then follow the steps below to construct the Auth URL:

1. Note the REST Endpoint URL, which is displayed in the REST Endpoint field under the Additional Information section.

An example for the REST Endpoint URL is `https://acme.storage.oraclecloud.com/v1/Storage-acme`

2. Delete the following portion of the REST Endpoint URL:

`v1/Storage-acme`

The edited URL now looks like this: `https://acme.storage.oraclecloud.com/`

3. Append the following to the edited URL:

`auth/v1.0`

The equivalent authentication URL will be `https://acme.storage.oraclecloud.com/auth/v1.0`.

Cloud Manager Settings – VM Size Page

Use Cloud Manager Settings – VM Size page (ECL_SET_SIZE_FL) to map the VM Size to a Shape in Oracle Cloud.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the VM size link displayed on the left panel.

Image: (Tablet) Cloud Manager Settings – VM Size Page

This example illustrates the fields and controls on the Cloud Manager Settings – VM Size page for the tablet.

	Vm Size	OPC Shape	
1	Small	oc1m	1 CPU 15GB
2	Medium	oc2m	2 CPU 30GB
3	Large	oc3m	4 CPU 60GB

VM Size

Enter the VM Size. VM Size is used to select the shape of the image while creating a topology. You can provide any name, but the default ones represent the size.

OPC Shape

Shape in Oracle Cloud.

+

Click this button to add a new VM size and map it to the Oracle Cloud shape.

Save

Click this button to save the details on the Cloud Manager Settings – VM Size page.

Cloud Manager Settings – Manage PUM Connections Page

Use Cloud Manager Settings – Manage PUM Connections page (ECL_CMUPDATE_FL) to configure PUM sources for updating Cloud Manager application. For details on updating Cloud Manager, see [Applying Updates to Cloud Manager](#).

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the Manage PUM Connections link displayed on the left panel.

Image: (Tablet) Cloud Manager Settings – Manage PUM Connections Page

This example illustrates the fields and controls on the Cloud Manager Settings – Manage PUM Connections page listing a configured environment for the tablet.

Cloud Manager Settings			
Configure PUM Source			
	Name	Version	Status
1	CMPUMSRC	9.1.2	COMPLETE

A Cloud administrator, has to first create an IH PI environment using the Cloud Manager. After creating the environment, it will be available on this page as a potential PUM source as shown:

Cloud administrator can now go ahead with the regular selective adoption method to update CM.

Cloud Manager Settings – Manage Updates Page

Use Manage Updates page to manage application updates delivered through PeopleSoft IH Updates and PRPs.

Note: This feature is meant for the Cloud Manager application update only.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the Manage Updates link displayed on the left panel.

Image: Cloud Manager Settings – Manage Updates Page

This example illustrates the fields and controls on the Cloud Manager Settings – Manage Updates page listing a configured environment for the tablet.

Cloud Manager Settings	
Settings	<div> <div>Edit Attributes</div> <div>Apply</div> </div>
File Server	<div>Cloud Manager Updates</div> <div>New fixes are available for Cloud Manager and ready to apply - Package Details</div>
VM Size	
Manage PUM Connections	
Manage updates	<div>PUM Source Details</div> <div> <div>Full Tier Instance</div> <div>cdmsifupd1-ixft-1 / XXX.XXX.XXX.XX / XX.XX.XXX.XXX</div> <div>Client Instance</div> <div>cdmsifupd1-winwc-2 / XXX.XXX.XXX.XX / XX.XX.XXX.XXX</div> </div> <div>Clean-Up</div>
Logs	

Click Edit Attributes button, if you want to edit any environment attributes. This displays the Environment Update Attribute Page as shown, wherein you can edit the required attributes.

Image: Environment Update Attribute page

This example illustrates the fields and controls on the Environment Update Attribute page.

Environment Update Attribute Page		
<div>Cancel</div> <div>Save</div>		
Template Name CDMSLFUPD1		
Environment Name CDMSLFUPD1		
10 rows		
1	Database Operator Id	VP1
2	Database Operator Password	...
3	Gateway Administrator Password	.....
4	Database Connect Password	.....
5	Weblogic Administrator Password	.....
6	Web Profile Password for user PTWEBSEVER	.....
7	Database Access Password	.....
8	Database Administrator Password	.....
9	Windows Administrator Password	.....
10	Database Access Id	SYSADM

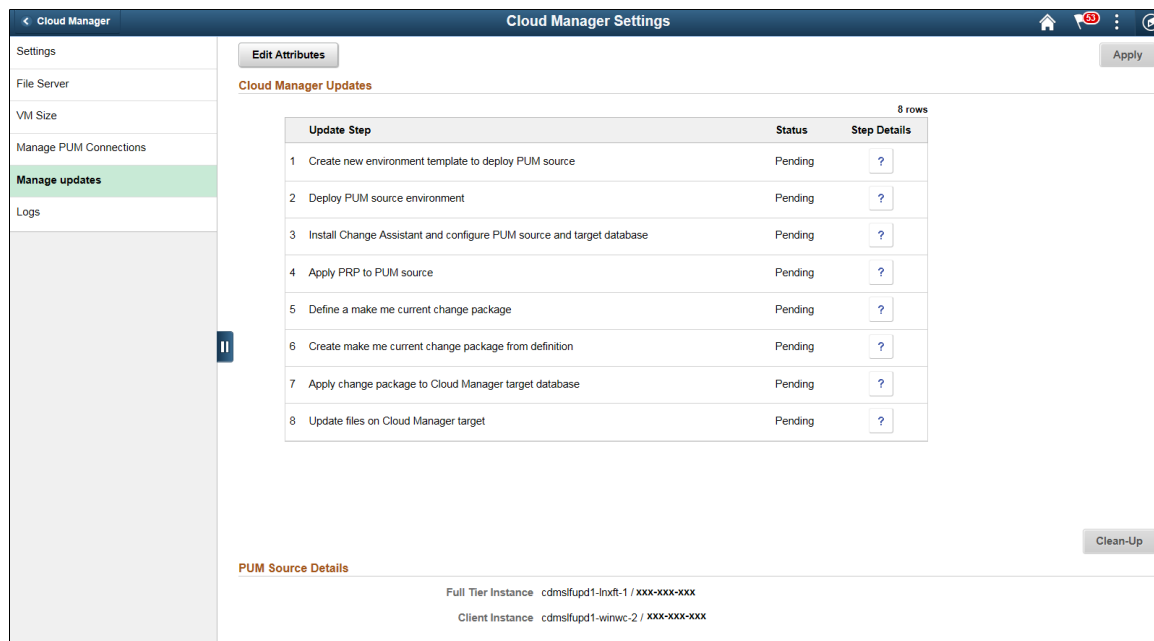
Note: The Database Operator Id field value should always be set as VP1.

Click Save to save the changes.

Click the Apply button on the Manage Updates page to initiate Cloud Manager update. This displays the Manage Updates page as shown.

Image: Manage Updates page – After applying the updates

This example illustrates the fields and controls on the Manage Updates page – After applying the updates.



For details on the update process, see [Applying Updates to Cloud Manager](#)

User Configuration for Cloud Manager

This section describes the configurations that need to be done for setting up a Cloud Manager instance.

My Settings Tile

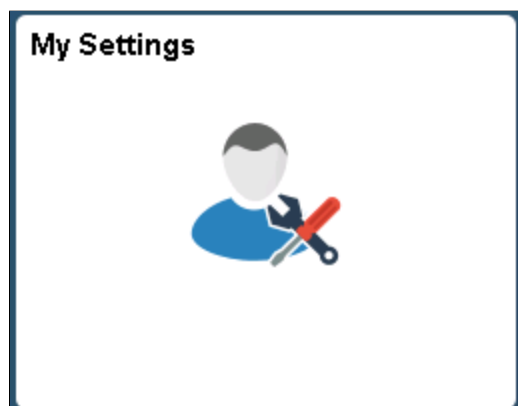
Use the My Settings tile (ECL_INFO_HOME_FL_GBL) to access My Settings page.

Navigation

My Settings tile is delivered as part of the Cloud Manager home page.

Image: My Settings tile

This example illustrates the My Settings tile.



My Settings Page

Use the My Settings page (ECL_INFO_HOME_FL) to enter or edit the public SSH key. The SSH key provided here can be used to input user's own SSH keys or any administrators SSH keys to help manage or troubleshoot issues by connecting over SSH.

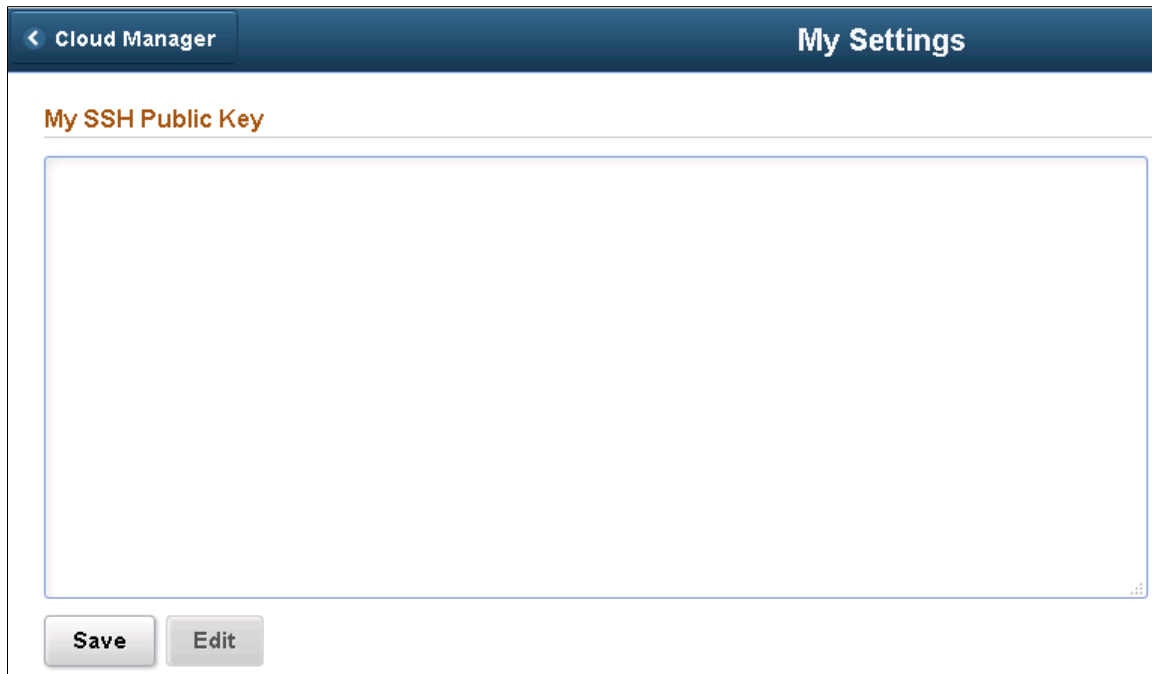
Note: The SSH key will be auto injected into all environments that will be created by the user after adding this key here.

Navigation

Click the My Settings tile on the delivered Cloud Manager Fluid home page. The My Settings page is displayed.

Image: My Settings page

This example illustrates the fields and controls on the My Settings page for the tablet.



My SSH Public Key

Enter the SSH public key value.

Click Save to save the details.

Note: To edit existing key details, click the Edit button and replace the text; then click Save.

Configuring Cloud Manager for OCI

All the configurations required for setting up the Cloud Manager for OCI–Classic are required for OCI too. For details see [Configuring Cloud Manager for OCI–Classic](#).

Apart from this, for OCI, there is an additional task of configuring the following pages:

- [Cloud Manager Settings – Infrastructure Settings Page](#)

- [Cloud Manager Settings – File Server Page](#)
- [Cloud Manager Settings – Manage Updates Page](#)

Cloud Manager Settings Page

Use the Cloud Manager Settings page (ECL_CMCFG_OCI_FL) to change the system settings as per requirements.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. By default, the details that were provided during Cloud Manager bootstrap process are displayed.

Image: Cloud Manager Settings Page

This example illustrates the fields and control on the Cloud Manager Settings Page.

The screenshot displays the 'Cloud Manager Settings' page. On the left is a navigation pane with links: Cloud Manager Settings, Infrastructure Settings, File Server, Manage PUM Connections, Manage updates, and Logs. The main content area is titled 'Cloud Manager Settings' and includes a 'Save Settings' button in the top right. The settings are organized into sections:

- My Oracle Support(MOS) Credentials:** Includes fields for User ID (XXX.XXX@oracle.com), Url (https://updates.oracle.com), and Password (masked with dots).
- PeopleSoft Credentials for REST Services:** Includes fields for Password (masked), User Name (CLADM), and Container Name (psft_jas).
- Lift & Shift Container:** (Section header only).
- Cobol License:** Includes fields for Serial Number and License Key (masked).

For details on the fields displayed on the Cloud Manager Settings page, see the [Cloud Manager Settings Page](#) in the Configuring Cloud Manager for OCI-Classical section.

Cloud Manager Settings – Infrastructure Settings Page

Use Cloud Manager Settings – Infrastructure Settings page (ECL_OCICFG_OCI_FL) to configure OCI related settings for environment provisioning and management.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the Infrastructure Settings link displayed on the left panel.

Image: Cloud Manager Settings – Infrastructure Settings Page

This example illustrates the fields and controls on the Cloud Manager Settings – Infrastructure Settings Page.

The screenshot shows the 'Infrastructure Settings' page in the Cloud Manager. It includes a sidebar with navigation links: Cloud Manager Settings, Infrastructure Settings (selected), File Server, Manage PLM Connections, Manage updates, and Logs. The main content area is titled 'Oracle Cloud Infrastructure Service' and contains the following fields:

- Tenancy OCID:
- User OCID:
- API Signing Public Key:
- API Signing Private Key:
- API Signing Prv Key Passphrase:
- API Version:
- Home Region:
- Deployment Region:
- Name: peoplesoft-xxx
- Name: cm-admin
- Fingerprint of: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Below these fields is the 'Operating System Image' section, which includes a note: 'The bootable volume size must be at least 5% higher than the uncompressed size of the OS image.' It contains a table with 2 rows:

Description	OS Version	OS Image	Bootable Volume Size (GB)	OS Default
Oracle Linux	6.6	<input type="text" value="ocid1.image.oc1.iad..XXX"/>	<input type="text" value="30"/>	<input checked="" type="radio" value="YES"/>
Microsoft Windows Server	2012	<input type="text" value="ocid1.image.oc1..XXX"/>	<input type="text" value="30"/>	<input checked="" type="radio" value="YES"/>

At the bottom, there is a 'Windows Default Password' field with a masked value: .

Tenancy OCID

Unique Oracle Cloud Identifier (OCID) for the tenancy.

Tenancy is the root compartment that contains all your organization's compartment and other OCI Cloud resources.

If you use the Oracle Cloud Infrastructure API, you will need your tenancy's OCID in order to sign the API requests. You will also use the tenancy ID in some of the IAM API operations. You can find your tenancy's OCID displayed at the bottom of the Oracle Cloud Infrastructure Console pages.

For details, refer the “Getting the Tenancy's OCID and User's OCID” section below.

User OCID

Unique OCID for the user. You can find the user's OCID in the Oracle Cloud Infrastructure Console page showing the user's details.

For details, refer the “Getting the Tenancy's OCID and User's OCID” section below.

API Signing Public Key and API Signing Private Key

RSA key pair in PEM format.

Your API requests will be signed with your private key, and Oracle Cloud Infrastructure will use the public key to verify the authenticity of the request.

Note: For details on the creation and usage of the API signing keys, refer the *PeopleSoft Cloud Manager Installation Guide*.

	<p>Important! It is not recommended to modify these values without completely understanding the impact. If in case the public keys are required to be changed, then manually update the public keys for the user using the OCI Console.</p>
API Signing Prv Key Passphrase	Displays the API signing private key encrypted with a passphrase.
API Version	<p>API version is the Rest API version for OCI.</p> <p>The base path of the endpoint includes the desired API version (for example, 20160918).</p>
Home Region	When you sign up for Oracle Cloud Infrastructure, Oracle creates a tenancy for you in one region. This is your home region. Your home region is where your IAM resources are defined. When you subscribe to a new region, your IAM resources are replicated in the new region, however, the master definitions reside in your home region and can only be changed there.
Deployment Region	The region where the PeopleSoft environments will be provisioned by Cloud Manager. Cloud Manager and the file server instance also reside on this same region.
Save	Click the Save button to save your settings.
Refresh OCI Metadata	<p>Once all the Infrastructure settings are entered and saved, click the Refresh OCI Metadata button.</p> <p>When this button is clicked, the Cloud Manager will run a process scheduler job (Process Name: ECL_OCI_SYNC) which will fetch all the OCI-specific metadata required for the Cloud Manager to function properly.</p>

For details on the fields and explanations for the Operating System Image, see the Operating System Image section in the Configuring Cloud Manager for OCI- Classic [Cloud Manager Settings Page](#).

Note: For OCI, you may need to input OCIDs in the OS Image section. apibrah: Note that these are the OCIDs for the custom linux and windows image will be using to provision environments through CM.

Getting the Tenancy's OCID and User's OCID

Both OCIDs are in the Oracle Cloud Infrastructure Console, which is located at <https://console.us-ashburn-1.oraclecloud.com>. If you don't have a login and password for the Console, contact an administrator.

- **Tenancy's OCID:** The Tenancy OCID is displayed at the bottom of the Console pages. You can also click the Tenancy name link to view all Tenancy Information.
- **User's OCID:** In the Console on the page showing the user's details. To get to that page:

- If you're signed in as the user, click your username in the top-right corner of the Console, and then click User Settings.
- If you're an administrator doing this for another user, instead click Identity, click Users, and then select the user from the list.

Cloud Manager Settings – File Server Page

Use Cloud Manager Settings – File Server page (ECL_CMFILESERV_FL) to configure file server as repository for Cloud Manager.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the File Server link displayed on the left panel.

Image: Cloud Manager Settings – File Server Page

This example illustrates the fields and controls on the Cloud Manager Settings – File Server page.

The screenshot shows the 'Cloud Manager Settings' page with the 'File Server' tab selected in the left navigation pane. The main content area is titled 'File Server Configuration' and includes the instruction 'Create and configure file server as repository for Cloud Manager.' Below this, there are several input fields: 'File Server Name' (with a placeholder), 'VM Size' (set to 'VM.Standard1.1'), 'Boot Volume Size' (set to '30' GB), 'Data Volume Size' (set to '150' GB), and 'Oracle Linux Image' (set to 'oci1 image.oc1.iad.XXX'). The 'Status' is 'Configured'. An 'Advanced' section is expanded, showing a note about re-using an existing file server volume and a toggle switch for 'Use existing fileserv volume' which is currently set to 'NO'. A 'Create' button is visible in the top right corner.

For details on the fields and explanations for the Cloud Manager Settings – File Server Page, see [Cloud Manager Settings – File Server Page for Configuring Cloud Manager for OCI–Classic](#).

Standard VM shapes are available for creating file server in OCI. The list of VM shapes on the drop-down menu depends on the custom Linux image that is specified in the [Cloud Manager Settings – Infrastructure Settings Page](#).

Cloud Manager Settings – Manage Updates Page

Use Manage Updates page to manage application updates delivered through PeopleSoft IH Updates and PRPs.

Note: This feature is meant for the Cloud Manager application update only.

Navigation

Click the Cloud Manager Settings tile on the delivered Cloud Manager Fluid home page. Cloud Manager Settings page is displayed. On the Cloud Manager Settings page, click the Manage Updates link displayed on the left panel.

Compartment

Compartments allow you to organize and control access to your cloud resources. A compartment is a collection of related resources (such as instances, virtual cloud networks, block volumes) that can be accessed only by certain groups that have been given permission by an administrator.

Virtual Cloud Network

Virtual Cloud Network within OCI. A virtual cloud network is a virtual version of a traditional network—including subnets, route tables, and gateways—on which your instances run.

Subnet for Primary Instance

A subnet is a subdivision of Oracle Cloud network. Subnets can be either public or private. You choose this during subnet creation, and you can't change it later. For details, refer OBE Installation Guide for Cloud Manager.

Image: Environment Update Attribute page

This example illustrates the fields and controls on the Environment Update Attribute page, displaying the Custom Attributes section.

The screenshot shows the 'Environment Update Attribute Page' with a section titled 'Custom Attributes' indicating '10 rows'. The attributes are listed in a table with a scrollable area on the right.

	Attribute Name	Value
1	Database Operator Id	VP1
2	Database Operator Password	.....
3	Gateway Administrator Password	.....
4	Database Connect Password	.....
5	Weblogic Administrator Password	.....
6	Web Profile Password for user PTWEBSERVER	.....
7	Database Access Password	.....
8	Database Administrator Password	.....
9	Windows Administrator Password	.....
10	Database Name	SELFUPD6

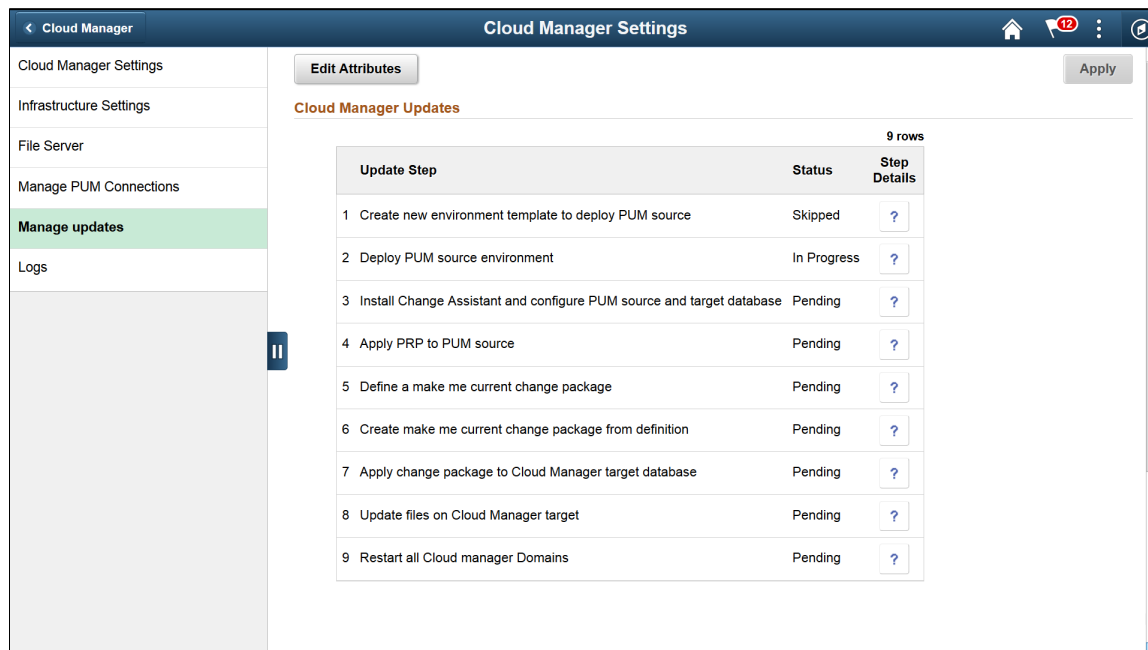
Note: The Database Operator Id field value should always be set as VP1.

Click Save to save the changes.

Click the Apply button on the Manage Updates page to initiate Cloud Manager update. This displays the Manage Updates page as shown.

Image: Manage Updates page – After applying the updates

This example illustrates the fields and controls on the Manage Updates page – After applying the updates.



Update Step	Status	Step Details
1 Create new environment template to deploy PUM source	Skipped	?
2 Deploy PUM source environment	In Progress	?
3 Install Change Assistant and configure PUM source and target database	Pending	?
4 Apply PRP to PUM source	Pending	?
5 Define a make me current change package	Pending	?
6 Create make me current change package from definition	Pending	?
7 Apply change package to Cloud Manager target database	Pending	?
8 Update files on Cloud Manager target	Pending	?
9 Restart all Cloud manager Domains	Pending	?

For details on the update process, see [Applying Updates to Cloud Manager](#)

Provisioning Environment in PeopleSoft Cloud Manager

Managing Repository

Cloud Manager provides an easy way to automatically download and manage PeopleSoft Application Update Images (PIs), PeopleSoft Release Patchsets (PRPs), PeopleTools Product Patches and PeopleSoft Custom Images. Cloud Manager uses file server created during bootstrap as an NFS repository to store downloaded artifacts from MOS. To streamline and automate downloads of various PeopleSoft application images and PRPs, Cloud Manager has introduced the new concept of Subscription Channels. Each PeopleSoft application has an associated Channel, which an administrator can choose to subscribe in order to download the latest PIs and PRPs for that particular PeopleSoft application. Cloud Manager is delivered with channels for PeopleSoft applications, which are available after you complete the installation and configuration. An administrator can subscribe to multiple channels and download all necessary PIs and PRPs that his organization needs.

Cloud Manager uses an application called Download Manager to download updates from MOS, which is invoked through process scheduler in asynchronous mode every time a channel is subscribed.

On the Repository tile, Administrators can:

- Subscribe to release channels for latest PeopleSoft application updates.
- Manage downloaded PeopleSoft Images and PRPs.

Pages Used to Manage Cloud Manager Repository as an Administrator

Page Name	Definition Page	Usage
<u>Repository Tile</u>	ECL_REPOSITORY_FL_GBL (CREF for tile)	Access the various features such as, Channel Subscriptions and Download History, and functions such as, downloading logs and deleting downloads.
<u>My Downloads Page</u>	ECL_REPO_AMYDLS_FL	View the PRPs and PIs downloaded. New entries are added as soon as new artifacts are downloaded.
<u>Download Subscriptions Page</u>	ECL_REPO_BCHNL_FL	Create download channels and subscribe them to initiate downloads. You can also use predefined download channels to initiate downloads.
<u>Download History Page</u>	ECL_REPO_BDLHIS_FL	View the history of downloads, say PIs and PRPs downloaded.

Page Name	Definition Page	Usage
<u>Logs Page</u>	ECL_REPO_MLOG_FL	View the download manager logs.

Repository Tile

Use the Repository tile to access the following features and functions:

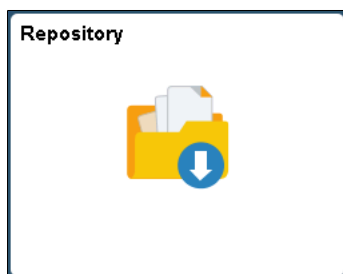
- View downloaded artifacts
- Channel subscriptions
- Download history
- Download logs
- Filter and delete downloads

Navigation

The Repository tile (ECL_REPOSITORY_FL_GBL) is delivered as part of the Cloud Manager home page.

Image: Repository Tile

This example illustrates the Repository Tile.



My Downloads Page

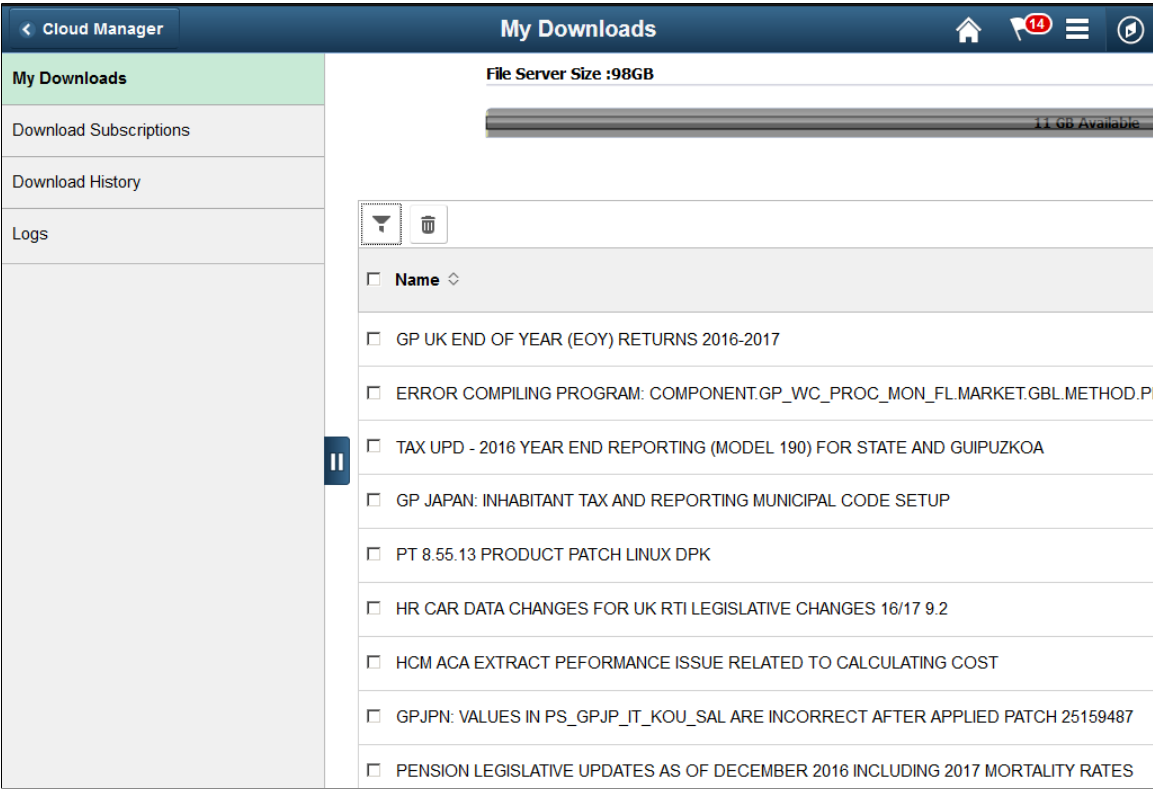
Use the My Downloads page (ECL_REPO_AMYDLS_FL) to view the artifacts downloaded. New entries are added as soon as new artifacts are downloaded.

Navigation

Click the Repository tile on the delivered Cloud Manager Fluid home page. My Downloads page is displayed by default.

Image: My Downloads page

This example illustrates the fields and controls on the My Downloads page.



Note: Clicking on an item in the My Downloads page displays additional details of the downloaded artifact.



Use the Filter icon to refine the search results based on search criteria.



Use the Delete icon to delete downloaded PIs and PRPs. Select the check box corresponding to the row you want to delete, and then click Delete button.

File Server Size

File Server capacity is a graphical display of the space available on the file server. You can manually increase the file server size as per requirement. For details see [Expanding File Server Capacity for OCI-Classice](#).

Name

Name of the downloaded artifact.

Type

Indicates the artifact type such as PI, PRP, Custom Image, and so on.

Product

Indicates the PeopleSoft application product pillar.

Release

Indicates the PeopleSoft application release.

Version

Indicates the application PI version.

Platform	Indicates the Operating System platform, such as Linux, or Windows.
Size	Total size of the PI or PRP.

Download Subscriptions Page

Use the Download Subscriptions page (ECL_REPO_BCHNL_FL) to subscribe to download channels and initiate downloads.

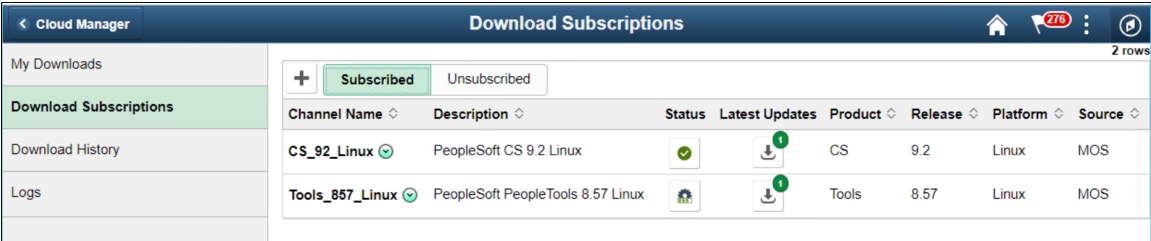
Note: Cloud Manager delivers default channels and those channels are available in the unsubscribed list of the Download Subscriptions page.

Navigation

Click the Repository tile on the delivered Cloud Manager Fluid home page. Select the Download Subscriptions tab in the left panel of the Cloud Manager home page.

Image: Download Subscriptions page

This example illustrates the fields and controls on the Download Subscriptions page. You can find definitions for the fields and controls later on this page.



To subscribe or unsubscribe channel, click the Related Actions button corresponding to channel name. If you select the Subscribe option, Cloud Manager starts monitoring for any new PIs or PRPs and downloads them from My Oracle Support. If you select the Unsubscribe option, Cloud Manager will no longer monitor or download latest PIs or PRPs.

When a release channel is subscribed, Cloud Manager invokes the download manager application, which connects to MOS and downloads latest updates for the release channel. Please note that artifacts, such as Update Images, are large in size and can take few hours to download. User can view the status of active downloads from the Download History page.

Subscribed tab Click this tab to view a list of subscribed channels.

When you select the Related Action to subscribe a channel, that channel will be added to the Subscribed tab.

Note: This operation will renew the channel subscriptions for all channels present in the Subscribed tab. This means that the Cloud Manager will check for updates and download them for all channels present in the Subscribed tab.

Unsubscribed tab

Click this tab to view a list of unsubscribed channels. By default, newly created download channels are listed under the Unsubscribed tab.

Status

Status will indicate current state.

- Success



The Success icon indicates the download was successful. No further action is necessary.

- In-progress



The In-progress icon indicates the update is downloading. Click on the icon to view the status of the download.

- Error



The Error icon indicates the download failures. Click the icon to open the Download Error page.

Image: Download Subscriptions – Unsubscribed page

This example illustrates the fields and controls on the Download Subscriptions – Unsubscribed page. You can find definitions for the fields and controls later on this page.

Channel Name	Description	Status	Latest Updates	Product	Release	Platform	Source
CRM_92_Linux	PeopleSoft CRM 9.2 Linux	Download icon with 2		CRM	9.2	Linux	MOS
CS_92_Linux	PeopleSoft CS 9.2 Linux	Download icon with 1		CS	9.2	Linux	MOS
ELM_92_Linux	PeopleSoft ELM 9.2 Linux	Download icon with 0		ELM	9.2	Linux	MOS
FSCM_92_Linux	PeopleSoft FSCM 9.2 Linux	Download icon with 3		FSCM	9.2	Linux	MOS
HCM_92_Linux	PeopleSoft HCM 9.2 Linux	Download icon with 24		HCM	9.2	Linux	MOS
IH_91_Linux	PeopleSoft IH 9.1 Linux	Download icon with 1		IH	9.1	Linux	MOS
PCM_91_Linux	PeopleSoft Cloud Manager 9.1 Linux	Download icon with 5		PCM	9.1	Linux	MOS
Tools_855_Linux	PeopleSoft PeopleTools 8.55 Linux	Download icon with 3		Tools	8.55	Linux	MOS
Tools_856_Linux	PeopleSoft PeopleTools 8.56 Linux	Download icon with 4		Tools	8.56	Linux	MOS

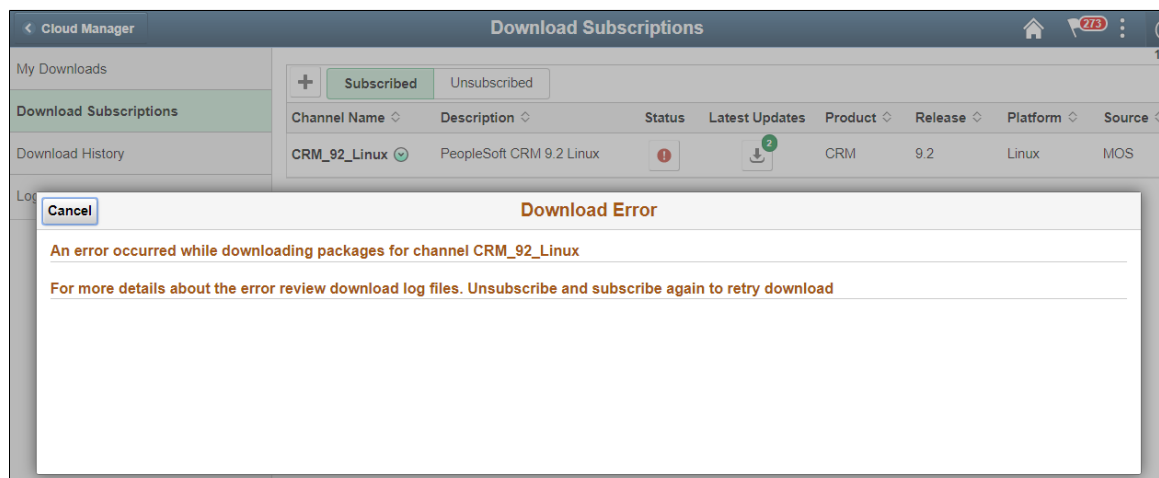
Use the action button to subscribe to a channel.

Download Error Page

Click the failed icon on the Download page to view the Download Error popup page. There are 2 types of error popup pages, one for standard errors and another for invalid password. The invalid password popup only applies to password protected downloads.

Image: Download Error page

This example illustrates the fields and controls on the Download Error page. You can find definitions for the fields and controls later on this page.



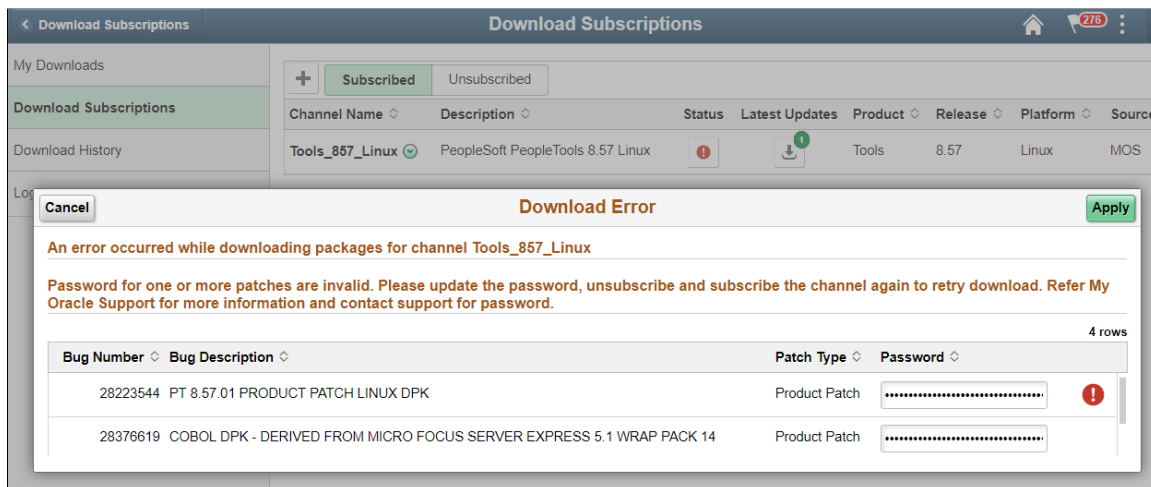
The download error message will indicate the error and direct the user to review the download log files. Error could be due to issues occurring during the download, such as network connection disruption (unable to reach MOS) or if there is no space available on the file server to save downloads.

Password Protected Subscription Password Error

When you subscribe to the a password protected download channel, the DownloadAssist file is downloaded from MOS to Cloud Manager. The DownloadAssist file contains the password required to download the packages.

Image: Download Error for Password Error

This example illustrates a Download Error page displaying a password error.



This message will only appear if Cloud Manager is unable to retrieve the password due to an error in MOS. If this does occur, the user will need to request the password from Support and update it manually on this page.

If the issue is due to an expired password, user can do a unsubscribe to the channel and then re-subscribe to the channel. Any password changes will be updated in the DownloadAssist file that is posted in MOS. On re-subscribing to a channel, the new password should get automatically updated in Cloud Manager.

If a re-subscribing doesn't solve the problem, then there could be issues in Cloud Manager that is failing to retrieve and update the password automatically or an unforeseen issue in MOS which is not allowing the download of the DownloadAssist file. In such a scenario, the user is expected to get the password from support and update the same on the Download Error page.

Note: The next scheduled download will renew the subscription and include any password changes in the DownloadAssist file. See [Changing Download Interval](#)

Downloading PeopleTools Patches

Cloud Manager can download previous PeopleTools patch releases for the PeopleTools channel. But for Application channels, only latest patches get downloaded.

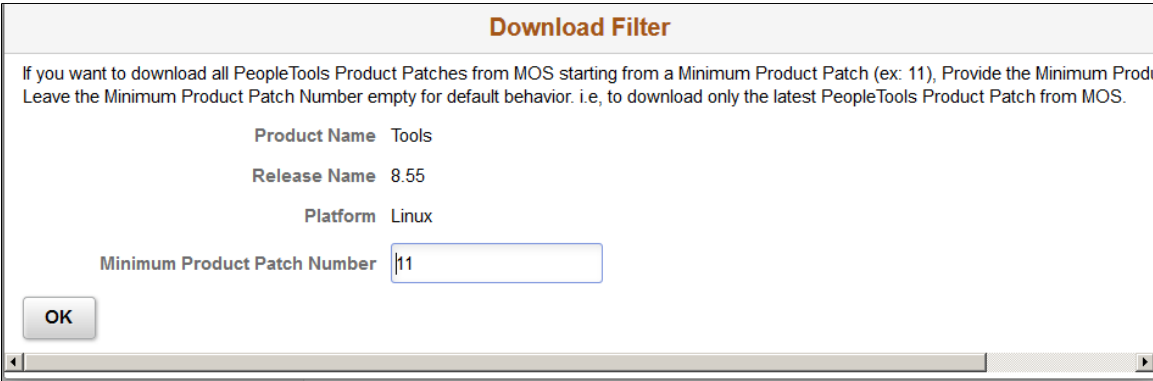
In case of Tools channel subscription, you are presented with a modal window for selecting the patch version you want to download.

Navigation

Click the Unsubscribed tab. Select any Tools channel. Click the Related Options menu and select Subscribe.

Image: Download Filter Modal Window

This example illustrates the fields and controls in Download Filter modal window.



Enter the required product patch version in the Minimum Product Patch Number field. For example, if user enters 11 in this field, then CM will download tools patches 8.55.11, 8.55.12, 8.55.13 upto latest.

Download History Page

Use the Download History page (ECL_REPO_BDLHIS_FL) to view the history of downloads.

Note: The entries in Download History page are updated in every four minutes. Clicking on an entry in the Download History page displays the current state of the download channel (that is, a list of files already downloaded, another list of files in the download queue and those that are currently downloading).

Navigation

Click the Repository tile on the delivered Cloud Manager Fluid home page. Select the Download History tab in the left panel of the Cloud Manager home page.

Image: Download History page

This example illustrates the fields and controls on the Download History page.

Channel Name	Updates	Start Time	End Time
Tools_855_Linux	0	12/19/16 3:53AM	12/19/16 3:53AM
HCM_92_Linux	17	12/19/16 3:53AM	12/19/16 5:37AM

Channel Name	Name of the download channel.
Updates	Number of updates downloaded.
Start Time and End Time	Indicates the time when downloads are started/finished for the release channel.

Logs Page

Use the Logs page (ECL_REPO_MLOG_FL) to view the download logs corresponding to the subscribed channels. It displays download logs for all the files that get downloaded.

Navigation

Click the Repository tile on the delivered Cloud Manager Fluid home page. Select the Logs tab in the left panel of the Cloud Manager home page.

Image: Logs Page

This example illustrates the fields and controls on the Logs page.

Channel Name FSCM_92_LINUX

***Log File** FSCM_92_Linux256.log

Number of Lines to Display 10 Default Value: 10

Search String

Fetch Logs

Regex Search Disabled

Log Data

```
[DEBUG] download_cm 2018-06-13 00:30:28,874 (MainThread) Sync finished on all artifacts for the channel : FSCM_92_Linux256
[DEBUG] download_cm 2018-06-13 00:30:28,874 (MainThread) Input YAML file : /home/psadm2/psft/data/cloud/dm/config
/FSCM_92_Linux256.yaml
[DEBUG] download_manager 2018-06-13 00:30:28,899 (MainThread) Connecting to MOS to check for updates...
[DEBUG] download_manager 2018-06-13 00:30:30,087 (MainThread)
[DEBUG] download_manager 2018-06-13 00:30:30,087 (MainThread) Starting download: FSCM_92_Linux256
[DEBUG] download_manager 2018-06-13 00:30:30,087 (MainThread) Skipping download... updPRJ28097483_127.zip is latest.
[DEBUG] download_cm 2018-06-13 00:30:30,089 (MainThread) Sync finished on all artifacts for the channel : FSCM_92_Linux256
[DEBUG] download_cm 2018-06-13 00:30:30,089 (MainThread) Sending download status update :
[DEBUG] download_cm 2018-06-13 00:30:30,089 (MainThread) {'status': 'Sync finished for the channel', 'channel_name':
'FSCM_92_Linux256', 'patches': []}
```

Channel Name

Name of the subscribed channel.

Log File

Log files are generated when a channel is subscribed. Select an appropriate log file in this field.

Number of Lines to Display

Indicates how many lines of the selected log file to be displayed.

Search String

Used to search for specific keywords in the log file. When user inputs a keyword, such as "ERROR" as an example, then only those lines are displayed which has an Error string in it. Here, only the specified number of lines are displayed.

Regex Search

Enables advanced searching, where a user can provide Unix style regular expressions.

Fetch Logs button

Click this button to fetch log data based on the input provided by the user in the Logs page.

Log Data

Data from the logs.

Re-synchronizing Repository Data with Downloaded List

Sometimes even after subscribing to a channel user may not able to see some of the downloaded patches in Repository > My Downloads page. The logs may show that the downloads are being skipped. This indicates a situation where the patches are already downloaded but their metadata is not synced with the Cloud Manager. In such situations re-sync the downloaded patches metadata with the Cloud Manager using the following steps.

1. Go to Repository > Download Subscriptions page and un-subscribe all channels that are currently subscribed.

2. Navigate to PeopleTools > Process Scheduler > System Requests page and run the process "ECL_REPODM".
3. Once the process finishes execution, you should be able to see the missing patches in Repository > My Downloads page.

Subscribing Channels using the Cloud Manager Repository

This section details the process flow for subscribing channels using the Cloud Manager Repository.

Note: Cloud Manager has a process scheduler recurring job defined, which invokes the download manager for all the subscribed release channels once a week. This will make sure that latest updates for all the subscribed release channels are downloaded every week without any user interaction.

Prerequisites

The administrator needs to define My Oracle Support credentials prior to subscribing channels using the Cloud Manager Repository. For this, perform the following:

1. Select the Cloud Manager Settings tile.
2. Edit the value in the User ID field and My Oracle Support password field in the My Oracle Support (MOS) Credentials section.
3. Click Save Settings to save the details.
For details on the Cloud Manager settings, see [Cloud Manager Settings Tile](#).

Note: This is a one-time setup.

Perform the following steps to subscribe channels using the Cloud Manager Repository tile:

1. Click the Repository home page available on the Cloud Manager home page.
2. Select Download Subscriptions on the left panel. The Download Subscriptions page is displayed.
3. Click Unsubscribed.
4. To subscribe to the release channel, perform the following:
 - a. Click the Related Actions button corresponding to the channel name.
 - b. Select Subscribe action. If there are any new updates, then the system starts downloading the new updates.
5. To create a channel, perform the following:

Note: If no channels are available by default, you need to create channels first followed by the subscribing channels procedure.

- a. Click on the '+' button to create a channel. The Create Channel modal window is displayed as shown.

Image: Create Channel modal window

This example illustrates the fields and control of the Create Channel modal window.

- b. Enter the channel name and the corresponding description.
- c. Select the product name, release name and platform from the drop-down list.
- d. Select MOS from the Source field.
- e. Click Done to create the channel.

Note: Downloading PIs and PRPs for a release channel can be time-consuming, depending on the size of the artifacts. The status of the download can be viewed by clicking 'New Updates' on the Download Subscriptions page and also on the Download History page by clicking on the corresponding entry.

Expanding File Server Capacity for OCI-Classic

You can manually increase the file server size.

Note: Expanding file server capacity is not possible in OCI.

Several steps in this process require you to access the file server through SSH. You can log on to the file server by following the steps mentioned below:

1. Log on to CM through SSH.
2. Find the CM SSH key in the CM VM (/home/psadm2/psft/data/cloud/OPChome/<OPC domain>/<OPC user id>.SSH).
3. Login to the File Server VM via SSH as "OPC" user using the private key found in the previous step

Note: Use the sudo command to run administrative tasks.

If an existing file server is attached to a CM instance provisioned later, this login will not work. In such case, you need to add your personal public key to the file server manually after provisioning the file server for the first time.

To manually increase the file server size, perform the following:

1. Bring the file system offline.

- SSH into the CM VM. Please note the name of the device which is mounted on /cm_psft_dpks (for example, dev/xdvc), you will require this name in a later step and then unmount it.

umount /cm_psft_dpks

- SSH into the File Server VM and stop the NFS service and SMB service:

/sbin/service nfs stop

/sbin/service smb stop

- In the File Server VM , unmount the storage disk:

umount /u01/app/oracle/product

2. Expand the disk.

- Log on to the Oracle Compute Cloud Service Console.
- Navigate to File Server instance, view instance details, and note down the name of the storage disk which is attached to the File Server.

3. Navigate to Storage section, identify the disk associated with the file server (found in the previous step).

4. Click Update.

5. Select the required size.

6. Click Update to increase its size.

7. Expand the File System.

In the File Server VM, run the following commands to expand the file system in the attached disk:

e2fsck -f /dev/<device name>

resize2fs /dev/<device name>

<device name> is the device name of the mount in the File Server, for example, dev, xvdb.

8. Bring the File System online.

- In the File Server VM , mount the expanded disk again with command:

mount -a

- In the File Server VM, verify the new size with:

df -h /u01/app/oracle/product

- In the File Server VM , start the NFS service and SMB service (which you had stopped in the previous step):

/sbin/service nfs start**/sbin/service smb start**

- In the Cloud Manager VM , re-mount the File Server share with the following command:

mount -a

Changing Download Interval

By default, Cloud Manager polls My Oracle Support for new updates every week. The recurrence definition for download channel subscriptions is **CloudManager Repository Update**. To modify the download schedule to meet your organizational needs, modify the recurrence pattern to a pattern that meets your needs.

For example, if you want to poll for updates on alternate days, you would perform the following:

1. In Cloud Manager, navigate to PeopleTools, Process Scheduler, Recurrences.
2. Select the recurrence CloudManager Repository Update.
3. Select Recurrence Pattern to *Weekly*.
4. Select the days.

Note: It is recommended to select alternate days.

5. Save the page.

Image: Recurrence Definition – CloudManager Repository Update

This example illustrates the fields and controls on the Recurrence Definition – CloudManager Repository Update where the occurrence is set to alternate days..

Recurrence Definition | Recurrence Exception

Recurrence Definition

Recurrence Name: CloudManager Repository Update

Description: CloudManager Repository Update

Schedule Next Recurrence when

☐ Current request is initiated

☒ Prior recurrence has completed

Recurrence Pattern

☐ Daily

☒ Weekly

☐ Monthly

☐ Customize Dates

☒ Sunday ☐ Monday ☒ Tuesday ☐ Wednesday

☒ Thursday ☐ Friday ☐ Saturday

Start Request

Date: 01/01/1999

Time: 12:30:00AM

End Request

Date:

Time:

Repeat

Every: 0 Minutes

For: 0 Hours

☒ Do not schedule any processes missed from the recurrence pattern.

Run on Specific Dates

Run Date (From)	Run Date (To)	Effective Until (Year)	Description

Buttons: Save, Return to Search, Notify, Add, Update/Display

For more information on setting up recurrence schedules, see Product documentation for *PeopleTools 8.56: Process Scheduler*; “Defining PeopleSoft Process Scheduler Support Information”, Defining Recurrence Definitions.

Managing Topology

Topology defines the infrastructure layout that will be created on Oracle Cloud by the Cloud Manager. Essentially, a topology defines a set of nodes, which is an abstraction of a virtual machine. While defining a node, you can set the values for node attributes, such as OS, VM size in terms of OCPU and memory, disk capacity, and PeopleSoft components to be installed.

The PeopleSoft administrators create topologies for PeopleSoft applications as per their organization requirements. By default, the Cloud Manager is delivered with the following topologies:

- Lift and Shift
- Lift and Shift - DBaaS

- PUM Fulltier

Note: Users are not allowed to delete lift and shift topologies that are used for lift and shift process.

Pages Used to Manage Topology as an Administrator

Page Name	Definition Name	Usage
<u>Topology Tile</u>	ECL_TOPOLOGY_FL	To access the Topology landing page.
<u>Topology Page</u>	ECL_TOPO_COMP_FL	To create new topologies, edit or clone existing topologies.
<u>Topology Definition Page</u>	ECL_TOPO_COMP_FL	Create a new topology.
<u>Add Node Page for OCI–Classic</u>		Set the values for node attributes like OS, sizing parameter, disk to be attached, and the PeopleSoft component to be installed.

Topology Tile

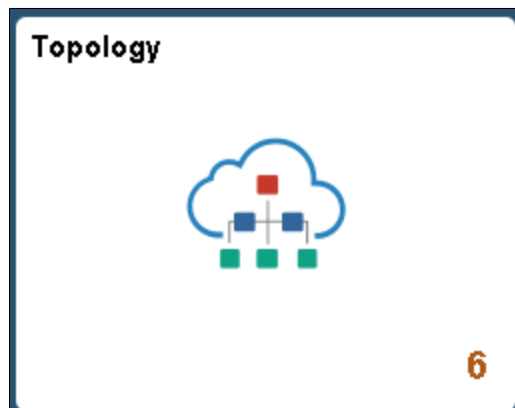
Use the Topology tile to access the Topology landing page.

Navigation

The Topology tile is delivered as part of the Cloud Manager home page.

Image: Topology Tile

This example illustrates the Topology Tile.



Topology Page

Use the Topology page (ECL_TOPOLOGY_FL) to perform the following:

- Create a new topology
- Edit an existing topology

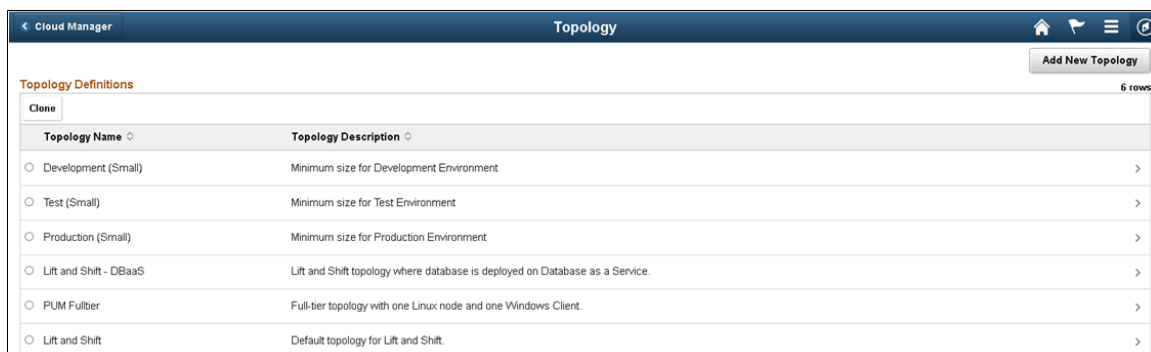
- Clone an existing topology
- Delete an existing topology

Navigation

Click the Topology tile on the delivered Cloud Manager Fluid home page. The Topology page is displayed.

Image: Topology Page

This example illustrates the fields and controls on the Topology Page. You can find definitions for the fields and controls later on this page.



Topology Name	Topology Description
<input type="radio"/> Development (Small)	Minimum size for Development Environment
<input type="radio"/> Test (Small)	Minimum size for Test Environment
<input type="radio"/> Production (Small)	Minimum size for Production Environment
<input type="radio"/> Lift and Shift - DBaaS	Lift and Shift topology where database is deployed on Database as a Service.
<input type="radio"/> PUM Fulltier	Full-tier topology with one Linux node and one Windows Client.
<input type="radio"/> Lift and Shift	Default topology for Lift and Shift.

Topology Name

Name of the topology.

Topology Description

Meaningful description for the topology.

Topology Definition Page

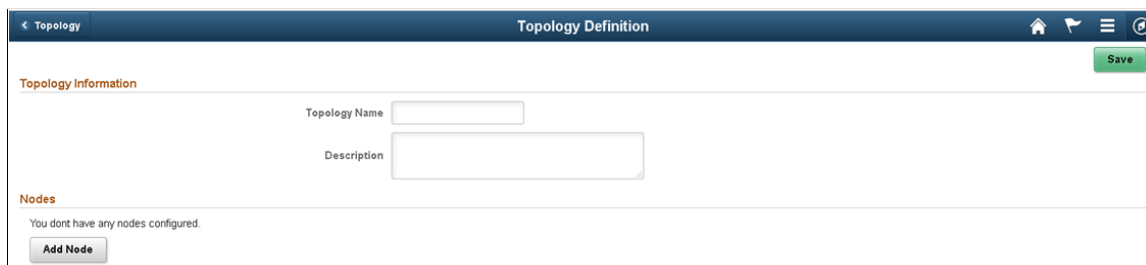
Use the Topology Definition page (ECL_TOPO_COMP_FL) to create a new topology.

Navigation

Click the Add New Topology button on the upper-right corner of the Topology page to access the Topology Definition page.

Image: Topology Definition page

This example illustrates the fields and controls on the Topology Definition page.



Topology Information

Topology Name

Description

Nodes

You dont have any nodes configured.

Add Node Page for OCI–Classic

Use the Add Node page to set the values for node attributes like OS, sizing parameter, disk to be attached, and the PeopleSoft component to be installed.

Image: Add Node page for OCI–Classic

This example illustrates the fields and controls on the Add Node page. You can find definitions for the fields and controls later on this page.

Operating System

Select the operating system (Linux or Windows) used to create the topology.

Sizing

Select Small, Medium or High as per requirement. These sizes are mapped to Oracle Cloud shapes. The mappings can be viewed/modified on CM Settings page — VM Size.

Note: If you want to deploy RAC, only shapes with OCPUs 2, 4, 8, and 16 are supported.

Disk Space (GB)

Select the amount of disk space attached to the machine. By default, the value '100' is displayed.

Note: Assume that if the lifted DPK is K size, then the disk size should be 2.5 times K.

Environment Type

Select the PeopleSoft software components to be deployed on the node. Different environment types available are:

- Database Tier: Deploys the PeopleSoft database on a node.
- Database as a Service: Deploys the PeopleSoft database on Oracle Database Cloud Service.
- Elasticsearch Server: Sets up Elasticsearch (ES) on the node.

Note: ES node configuration is automatically done by Cloud Manager. For information on how to deploy and configure Elasticsearch refer Elasticsearch Home Page on My Oracle Support (Doc ID 2205540.2).

- Full Tier: Deploys Database, Appserver, Webserver and Process Scheduler on the node.
- Middle Tier: Deploys Appserver, Webserver and Process Scheduler on the node.
- PeopleSoft Client: Deploys windows client components on the node.

The above mentioned options are displayed based on the Operating System that is selected.

Note: For applying PeopleTools patch to an environment, it is mandatory to have a PeopleSoft client defined in the topology used to deploy the environment.

Add Node Page for OCI

Use Add Node page to add nodes for creating a topology.

Image: Add Node Page for OCI

This example illustrates the fields and controls on Add Node page for OCI.

The screenshot shows a dialog box titled "Add Node". At the top left is a "Cancel" button, and at the top right is a "Done" button. The main area contains four fields:

- *Operating System: A dropdown menu.
- *Environment Type: A dropdown menu.
- Shape Name: A dropdown menu.
- Disk Space(GB): A text input field containing the value "0".

Operating System

Select the operating system (Linux or Windows) used to create the topology.

Environment Type

Select the PeopleSoft software components to be deployed on the node. Different environment types available are:

- **DB Systems:** DB systems are dedicated instances running Oracle Linux, optimized for running one or more Oracle databases. A DB System is a Database Service resource. Cloud Manager supports provisioning of databases on OCI DB Systems. CM provisions 1 and 2 node DB systems on virtual machines.

You can select VM shapes during topology creation and database edition in the template.

- **Database Tier:** Deploys the PeopleSoft database on a compute node.
- **Elasticsearch Server:** Sets up Elasticsearch (ES) on the node.

Note: ES node configuration is automatically done by Cloud Manager. For information on how to deploy and configure Elasticsearch refer Elasticsearch Home Page on My Oracle Support (Doc ID 2205540.2).

- **Full Tier:** Deploys Database, Appserver, Webserver and Process Scheduler on the node.
- **Middle Tier:** Deploys Appserver, Webserver and Process Scheduler on the node.
- **PeopleSoft Client:** Deploys windows client components on the node.

The above mentioned options are displayed based on the Operating System that is selected.

Note: For applying PeopleTools patch to an environment, it is mandatory to have a PeopleSoft client defined in the topology used to deploy the environment.

Shape Name

Select the required VM shape used to launch DB system. The shape determines the type of DB system and the resources allocated to the system.

The list of VM shapes depends on the custom linux and windows image that is specified in the "Infrastructure Settings" page. In OCI, whenever a user creates a custom linux or windows image, then a set of shapes get associated with that image. CM shows that set of shapes, when end-user creates or modifies the nodes in a topology.

Note: The list of shapes will not appear until user does a Refresh of OCI Metadata after configuring the Operating System images in the Settings page .

Supported VM shapes are:

- VM.Standard 1.1
- VM.Standard 1.16
- VM.Standard 1.2
- VM.Standard 1.4
- VM.Standard 1.8
- VM.Standard 2.1
- VM.Standard 2.16
- VM.Standard 2.2
- VM.Standard 2.24
- VM.Standard 2.4
- VM.Standard 2.8

Disk Space (GB)

Select the amount of disk space attached to the machine. By default, the value '100' is displayed.

Note: Assume that if the lifted DPK is K size, then the disk size should be 2.5 times K.

Note: For DB System, only a limited set of pre-defined disk sizes are supported. The allowed disk sizes are:

- 256 GB
- 512 GB
- 1024 GB
- Multiples of 1024 GB

Creating a New Topology

1. Click the Add New Topology button available on the upper-right corner of the Topology page.
2. In the Topology Definition page, enter the topology name and the corresponding description.
3. Click the Add Node button to create a node. This opens the Add Node page. Use the Add Node page to set the values for node attributes like OS, sizing parameter, disk to be attached, and the PeopleSoft component to be installed.
4. Click Save to save the details.

Validation Rules for Topology

The following are the set of current validation rules for topology:

If there is a full tier node, then you:

- Cannot have another full tier node.
- Cannot have a mid-tier node.
- Cannot have a database node.
- Cannot have a Database as a Service node.

If there is a mid-tier node, then you:

- Cannot have a full tier node.
- Must have either a Database as a Service node or a database node.

If there is a database node, then you:

- Cannot have another database node.
- Cannot have a Database as a Service node.
- Cannot have a full tier node.

If there is a Database as a Service node, then you:

- Cannot have another Database as a Service node.
- Cannot have database node.
- Cannot have a full tier node.

Apart from this, user may have a Windows Client Node in all the above mentioned cases and an optional Elasticsearch Server Node.

Editing an Existing Topology in OCI–Classic

To edit an existing topology in OCI–Classic, perform the following:

1. Click any existing topology in the Topology page. This displays the Topology Definition page of the topology which you want to edit.

Image: Topology Definition – Edit Page in OCI–Classic

This example illustrates the fields and controls on the Topology Definition – Edit Page in OCI–Classic.

Topology Definition

Topology Information

Topology Name: PUM Fulltier

Description: Full-tier topology with one Linux node and one Windows Client.

Nodes 2 rows

	Environment Type	Sizing	Operating System	Disk Space(GB)
1	Full Tier	Small	Linux	100
2	PeopleSoft Client	Small	Windows	30

2. You can edit the description, if required.
3. Click + to add new nodes.

See [Add Node Page for OCI–Classic](#)

4. To edit any node attribute value, click on any node row. This displays the Edit Node modal window.

Image: Edit Node modal window

This example illustrates the fields and controls on the Edit Node modal window.

Note: Currently, you cannot disable any of the tiers on the middle tier node.

5. Click Save to save the edited details.

Editing an Existing Topology in OCI

To edit an existing topology in OCI, perform the following:

1. Click any existing topology in the Topology page. This displays the Topology Definition page of the topology which you want to edit.

Image: Topology Definition – Edit Page in OCI

This example illustrates the Topology Definition – Edit Page in OCI.

	Environment Type	Shape Name	Operating System	Disk Space(GB)
1	Full Tier		Linux	100
2	PeopleSoft Client		Windows	30

2. You can edit the description, if required.
3. Click + to add new nodes.

See [Add Node Page for OCI](#)

4. To edit any node attribute value, click on any node row. This displays the Edit Node modal window.

Image: Edit Node modal window for OCI

This example illustrates the fields and controls on the Edit Node modal window for OCI.

Cancel Edit Node Done

*Operating System Linux

*Environment Type Full Tier

Shape Name

Disk Space(GB) 100

Features

Cobol No

Delete

5. Edit the fields as per requirement.
6. Click Done to save the edited details.

Cloning an Existing Topology

To clone an existing topology, perform the following:

1. Select the radio button corresponding to a topology that you want to clone.
2. Click Clone button in the Topology page. This displays the Clone Topology modal window.

Image: Clone Topology modal window

This example illustrates the fields and controls on the Clone Topology modal window.

Cancel Clone Topology Clone

New Topology Name

3. Enter a new topology name and click Clone. The new topology is added to the topology list.

Deleting an Existing Topology

To delete an existing topology, perform the following:

1. Click any existing topology in the Topology page. This displays the Topology Definition page of the topology.
2. Click Delete, to delete the topology.

Managing Template

An environment template is a repeatable blueprint that is used to deploy PeopleSoft environments using Cloud Manager. A template defines the topology to be used when deploying the PeopleSoft application DPK, which gets downloaded to the Repository. A template also defines environment attributes to enable streamlined deployments. Access to templates can be managed by defining security attributes of the templates.

Pages Used to Manage Environment Templates as a PeopleSoft Administrator

Page Name	Definition Name	Usage
Environment Template Tile	ECL_TEMPLATE_LP_FL_GBL (This is the CREF for the tile.)	Access the Environment Template landing page.
Environment Template Page	ECL_TEMPLATE_FL	Create new templates or edit, delete or clone existing templates.
Environment Template – General Details Page for OCI–Classic and OCI	ECL_TEMPL_GEN_FL	Enter the template name, description, and selecting a database.
Environment Template – Select Topology Page for OCI–Classic	ECL_TEMPL_TOP_FL	Select the topology that you have already defined.
Environment Template – Define Security Page	ECL_TEMPL_SEC_FL	Associate zones in which the environment is created and the roles that have access to the template.
Environment Template – Summary Page	ECL_TEMPL_REV_FL	Displays the summary of the environment template that the user is about to create.

Environment Template Tile

Use the Environment Template tile (ECL_TEMPLATE_LP_FL_GBL) to access Environment Template landing page.

Navigation

The Environment Template tile is delivered as part of the Cloud Manager home page.

Image: Environment Template Tile

This example illustrates the Environment Template Tile.

**Environment Template Page**

Use the Environment Template page (ECL_TEMPLATE_FL) to create a new template, and edit, delete or clone an existing template.

Navigation

Click the Environment Template tile on the delivered Cloud Manager Fluid home page. The Environment Template page is displayed by default.

Image: Environment Template Page

This example illustrates the fields and controls on the Environment Template Page. You can find definitions for the fields and controls later on this page.

Cloud Manager

Environment Template

Home

14

Menu

Refresh

Add New Template

Environment Template Definitions

Clone

Delete

Template Name	Database	Default Topology	Description
<input type="radio"/> CLONE20JAN	DBAAS5PM PSPDB 20170120-172314	DBAASPROV	
<input type="radio"/> DBAAS_PRO	PEOPLESOFT HCM UPDATE IMAGE 9.2.020 - NATIVE OS	DBAASPROV	
<input type="radio"/> Lift and Shift		Lift and Shift	This template is used during the Shift process, in which a

Note: The Lift And Shift template is the default template displayed in the Environment Template page with no database associated with it .

Template Name

Name of the template.

Database

Indicates the PeopleSoft application DPK that gets installed when the template is deployed.

Default Topology	Default topology associated with the template.
Description	Meaningful description of the template.

Creating a Template

Use the Environment Template wizard to create a new template using a step by step guided process.

By default, the create template guided process involves the following steps:

1. Entering general details.

See [Environment Template – General Details Page for OCI–Classic and OCI](#)

2. Selecting topologies.

See [Environment Template – Select Topology Page for OCI–Classic](#)
and [Environment Template – Select Topology Page for OCI](#)

3. Defining security.

See [Environment Template – Define Security Page](#)

4. Submitting the details.

See [Environment Template – Summary Page](#)

Environment Template – General Details Page for OCI–Classic and OCI

Use the Environment Template – General Details page to enter the template name, description, and selecting a database.

Navigation

Click the Add New Template button on the Environment Template landing page.

Image: Environment Template – General Details page for OCI–Classic and OCI.

This example illustrates the fields and controls on the Environment Template – General Details page for OCI–Classic and OCI.

Name Name of the template which you want to create.

Description Meaningful description of the template.

Database Select a PeopleSoft application DPK from the list of DPKs available in the Repository.

Environment Template – Select Topology Page for OCI–Classic

Use the Environment Template – Select Topology page to select the topology that you have already defined. You may edit the default attributes associated with the selected topology.

By configuring custom attributes, an administrator can configure environment settings that will be deployed by default. This enables streamlining deployments for self-service users.

Navigation

- Click Next in the Environment Template — General Details page.
- Click Step 2, Select Topology, at the top of the page to navigate to the Environment Template – Select Topology page in the guided process.

Image: Environment Template – Select Topology page

This example illustrates the fields and controls on the Environment Template – Select Topology page.

Default Topology

Users can mark one of the topology associated with the template as the default topology. During the environment creation process using a template, you can override this default topology and select any other topology associated with that template. If you don't want to override, then the default topology will get used automatically.

Note: Be sure to select the topology under the Override Topology section and then continue with the template creation.

Topology Name

Select the required topology that you want to include in the template.

Note: While selecting a topology, the custom attributes associated with the selected topology is displayed. It is possible to override the default attributes based on the requirements.

Adding Additional Topologies for OCI–Classic

1. Click + to add more topologies. A new row of empty fields appears below the existing record. You can configure the fields based on the requirements.
2. Expand the Custom Attributes block.
3. Select the required topology. This displays the custom attributes corresponding to the selected topology as shown.

Image: Creating New Topology

This example illustrates the Environment Template — Select Topology page.

Environment Template Exit Previous Next 2

1 General Details 2 **Select Topology** 3 Define Security 4 Summary

Select Topology 2 rows

Default Topology	Topology Name		
<input type="checkbox"/>	Lift and Shift	+	-
<input checked="" type="checkbox"/>	PUM Fulltier	+	-

Custom Attributes

Topology: Lift and Shift

[Edit Custom Attributes](#)

▶ Middle Tier

▶ Database Tier

▶ PeopleSoft Client

4. Enter the required attributes and click Next. For details on custom attributes, see Environment Attributes Details section.

Note: Cloud manager allows users to add customization during template creation under Edit Custom Attributes section. This customization can be added only to middle tier, database tier, or full tier. The customization will be available to users when they select this template. This facilitates the user to define custom attribute values for the environment being deployed.

Environment Template – Select Topology Page for OCI

Use the Environment Template – Select Topology page to select the topology that you have already defined. You may edit the default attributes associated with the selected topology.

Navigation

- Click Next in the Environment Template — General Details page.
- Click Step 2, Select Topology, at the top of the page to navigate to the Environment Template – Select Topology page in the guided process.

Image: Environment Template — Select Topology page for OCI

This example illustrates the fields and controls on the Environment Template — Select Topology page for OCI.

Default Topology

Users can mark one of the topology associated with the template as the default topology. During the environment creation process using a template, you can override this default topology and select any other topology associated with that template. If you don't want to override, then the default topology will get used automatically.

Note: Be sure to select the topology under the Override Topology section and then continue with the template creation.

Topology Name

Select the required topology that you want to include in the template.

Note: While selecting a topology, the custom attributes associated with the selected topology is displayed. It is possible to override the default attributes based on the requirements.

Adding Additional Topologies for OCI

1. Click + to add more topologies. A new row of empty fields appears below the existing record. You can configure the fields based on the requirements.
2. Expand the Custom Attributes block.
3. Select the required topology. This displays the custom attributes corresponding to the selected topology as shown.

Image: Environment Template — Select Topology page for OCI

This example illustrates the fields and controls on the Environment Template — Select Topology page for OCI.

4. Enter the required attributes and click Next. For details on custom attributes, see Environment Attributes Details section.

Note: Cloud Manager allows users to add customization during template creation under Edit Custom Attributes section. This customization can be added only to middle tier and database tier. The customization will be available to users when they select this template. This facilitates the user to define custom attribute values for the environment being deployed.

Environment Attributes Details for OCI–Classic

The different environment attributes used while creating a template are described in this topic.

Middle Tier

General Settings

Gateway Administrator Username User id of gateway administrator.

HTTPS PIA Port	The WebLogic https (ssl) port number for PIA.
Enable EM agent	Select either Yes or No to enable or disable EM agent.
PeopleSoft Deployment Path	Location where the PeopleSoft application is deployed.
HTTP PIA Port	The WebLogic http port number for PIA.
WLS Port	Port of Web Logic Server.
Weblogic Administrator Username	User name of the Weblogic administrator. This is used for accessing weblogic console.
Database is RAC	Select either Yes or No to indicate whether RAC (Oracle Real Application Cluster) is used as the database or not. Two node RAC is supported in Cloud Manager. This field is specific to DBaaS only.

Note: Only shapes with OCPUs 2, 4, 8, and 16 are supported.

Jolt Port	Port number for Jolt listener on the app server.
------------------	--

Domain Settings

PeopleSoft Cloud Manager facilitates to configure the mid-tier process for App server, Web server and Process Scheduler.

App Server Settings

Number of Domains	Number of AppServer domains. In CM 06, the number of domain is always set as 1.
Number of App Server Instance (PSAPPSRV services) Per Domain	Number of PSAPPSRV instances required. This configuration is applied to all App Server domains.
Number of Query Server Instances(PSQRYSRV services) Per Domain	Number of PSQRYSRV instances required. This configuration is applied to all App Server domains.
Number of SQL Access App Server(PSSAMSRV services) Per Domain	Number of PSSAMSRV instances required. This configuration is applied to all App Server domains.
Number of Jolt Listener(Jolt Handler) Per Domain	Number of Jolt listener.

Process Scheduler Settings

Number of Domains	Number of process scheduler domains. In CM 06, the number of domain is always set as 1.
Number of App Engine Server Instances(PSEAESRV services) Per Domain	Number of application engines required.

Number of App Engine Server Instances(PSDSTSRV services) Per Domain

Number of application servers required.

Process Scheduler Server Definition Parameters

Application Engine

Number of process scheduler job.

XML Publisher

Number of XML publishers.

COBOL SQL

Number of COBOL SQL process.

Optimization Engine:

Number of optimization engines.

SQR Process

Number of SQR processes.

SQR Report

Number of SQR reports.

Max Api Aware

Number of Max Api Aware.

Web Server Settings

Number of Domains

Number of webserver domains. In CM 06, the number of domain is always set as 1.

Enable Domain as Load Balancer

Enable web server domain as load balancer or not.

Enable Domain as FailOver

Enable web server domain as failover.

Advanced

Customization YAML: Enter custom YAML for appserver or webserver configuration.

Database as a Service Section

General Settings

Database Name

Name of the database.

DBaaS National Character Set

National Character Set of the database environment.

Database Server Port:

Listener port number.

Container Name

Database container name.

DBaaS Charset

Default DBaaS character set is AL32UTF8.

Enable EM agent

Select Yes to enable enterprise manager agent for creating the infrastructure that is required to deploy an EM agent.

Database Type

Select the required database type. Available database types are DEMO or SYS.

Enable Multi Language

Select either Yes or No to enable multi language support.

Advanced DBaaS Options

Service Level	Oracle database cloud service.
Metering Frequency	Frequency for making the payment. Values in the List are Hourly and Monthly. Hourly indicates payment of a low price for a month irrespective of the hours used. Hourly indicates making the payment based on hours used.
Software Release	Oracle database release version. Currently, PeopleSoft supports Oracle 12c Release 1.
Database is RAC	Select either Yes or No to indicate whether RAC (Oracle Real Application Cluster) is used as the database or not. This option is enabled only for Oracle 12c Release 1 and Enterprise Edition - Extreme Performance software edition.
Software Edition	Oracle database software edition. Currently, PeopleSoft supports Enterprise Edition and Enterprise Edition - Extreme Performance.
Backup Destination	Location for storing backups. Available backup destination options are Both Cloud Storage and Local Storage, Cloud Storage Only, and None. It is not possible to store the backups to cloud storage alone, If database used is RAC.
Backup Container Name	Name of an existing Oracle Storage Cloud Service Container for taking backup. You need to provide backup container name only if backup destination is specified as either 'Both Cloud Storage and Local Storage' or Cloud Storage Only.

Note: Database as a Service and Advance DBaaS sections are available only for DBCS.

PeopleSoft Client Section

Credentials

Windows Administrator Password: Password for Windows Administrator.

Environment Attributes Details for OCI

For OCI, you need to configure the following in addition to the general environment attributes available for OCI. You need to configure subnet settings for each node in OCI

- Region and Availability Domains
- DB Systems
- Subnet Settings

Region and Availability Domains Section

- Region: A region is a localized geographic area, and an availability domain is one or more data centers located within a region. A region is composed of several availability domains.
- Primary Availability Domain: Availability domain in OCI.

- **Compartment:** Compartments allow you to organize and control access to your cloud resources. A compartment is a collection of related resources (such as instances, virtual cloud networks, block volumes) that can be accessed only by certain groups that have been given permission by an administrator.
- **Virtual Cloud Network:** Virtual Cloud Network within OCI. A virtual cloud network is a virtual version of a traditional network—including subnets, route tables, and gateways—on which your instances run.

You need to pre-configure the region and availability domain specific attributes. For details, refer OBE Installation Guide for Cloud Manager.

Note: In OCI, the templates will not have any default values for Region and Availability Domains section. All templates must be updated with these settings before using it for deployment using the [Create Environment Page](#) page.

DB Systems Section

The DB Systems sections includes:

- General Settings

For details on the fields available on General settings, see General Settings in Database as a Service Section.

- Subnet Settings
- DB System Options

Image: DB Systems Section

This example illustrates the fields and controls on the DB Systems Section. You can find definitions for the fields and controls later on this page.

The screenshot displays the 'DB Systems' configuration page. It features a sidebar with 'Edit Custom Attributes', 'Region and Availability Domains', and 'DB Systems'. The main content area is divided into three sections: 'General Settings', 'Subnet Settings', and 'DB System Options'. The 'Subnet Settings' section contains a table with one row for 'Subnet For Primary Instance'. The 'DB System Options' section contains a table with seven rows for various configuration fields.

Subnet Settings			
1 row			
1	Subnet For Primary Instance	<input type="text"/>	?

DB System Options			
7 rows			
1	Software Release	<input type="text"/>	?
2	Display Name	<input type="text"/>	?
3	Auto Backup	<input type="radio"/> NO	?
4	License Type	<input type="text" value="License Included"/>	?
5	Node Count	<input type="text" value="1"/>	?
6	Software Edition	<input type="text"/>	?
7	Cluster Name	<input type="text"/>	?

Subnet for Primary Settings

A subnet is a subdivision of Oracle Cloud network. Subnets can be either public or private. You choose this during subnet

creation, and you can't change it later. For details, refer OBE Installation Guide for Cloud Manager.

Software Release

Oracle database release version. The supported versions are Oracle Database 12c Release 1 and Oracle Database 12c Release 2. The database release version must be chosen based on the database version in PeopleSoft Image or customer's lifted database version.

Display Name

Display name for the DB system. The name doesn't need to be unique. An Oracle Cloud Identifier (OCID) will uniquely identify the DB system.

Auto Backup

Displays whether automatic incremental backups for this database is enabled or disabled.

License Type

The type of license you want to use for the DB system. Your choice affects metering for billing. License included means the cost of the cloud service includes a license for the Database service. Bring Your Own License (BYOL) means you are an Oracle Database customer with an Unlimited License Agreement or Non-Unlimited License Agreement and want to use your license with Oracle Cloud Infrastructure. This removes the need for separate on-premises licenses and cloud licenses.

Node Count

The number of nodes in the DB system. The number depends on the shape you select. Supported VM shapes are:

- VM.Standard1.1: Provides a 1-node DB system with 1 core.
- VM.Standard1.2: Provides a 1- or 2-node DB system with 2 cores.
- VM.Standard1.4: Provides a 1- or 2-node DB system with 4 cores.
- VM.Standard1.8: Provides a 1- or 2-node DB system with 8 cores.
- VM.Standard1.16: Provides a 1- or 2-node DB system with 16 cores.
- VM.Standard2.1: Provides a 1-node DB system with 1 core.
- VM.Standard2.2: Provides a 1- or 2-node DB system with 2 cores.
- VM.Standard2.4: Provides a 1- or 2-node DB system with 4 cores.
- VM.Standard2.8: Provides a 1- or 2-node DB system with 8 cores.
- VM.Standard2.16: Provides a 1- or 2-node DB system with 16 cores.

- VM.Standard2.24: Provides a 1- or 2-node DB system with 24 cores.

Note: Except 1.1 and 2.1, all other shapes seem to be supported for RAC (2-node DB system).

Software Edition

The database edition supported by the DB system.

Cluster Name

A unique cluster name for a multi-node DB system. The name must begin with a letter and contain only letters (a-z and A-Z), numbers (0-9) and hyphens (-). The cluster name can be no longer than 11 characters and is not case sensitive.

Environment Template – Define Security Page

Use the Environment Template – Define Security page to associate the zone in which the environment is created and the role that will have access to the template.

Navigation

- Click Next on the Select Topology step.
- Click Step 3, Define Security, at the top of the page to navigate to the Environment Template – Define Security page in the guided process.

Image: Environment Template – Define Security Page

This example illustrates the fields and controls on the Environment Template – Define Security Page.

Assign Template to Zone(s)		1 row
Zone Name		
1	Test	+ -

Assign Template to Role(s)		3 rows
Role Name		
1	PACL_CAD	+ -
2	PACL_PAD	+ -
3	PACL_SSC	+ -

Zone Name

Indicates the zone in which the environment is created.

Role Name

Indicates the roles that have access to the template for creating environments. Only the users belonging to the role specified will be able to access the template while creating environment.

The delivered Cloud Manager roles are:

- Cloud Administrator (PACL_CAD)
- Cloud PeopleSoft Administrator (PACL_PAD)

- Self-Service User (PACL_SSC)

Environment Template – Summary Page

Use the Environment Template – Summary page (ECL_TEMPL_REV_FL) to review and submit the template details.

Navigation

- Click Next on the Define Security step.
- Click step 4, Summary, at the top of the page to navigate to the Environment Template – Define Security page in the guided process.

Image: Environment Template – Summary Page

This example illustrates the fields and controls on the Environment Template – Summary page.

The screenshot displays the 'Environment Template' wizard's summary page. At the top, a navigation bar includes an 'Exit' button, the title 'Environment Template', a notification icon with '14', a '< Previous' button, and a 'Submit' button. Below this is a progress indicator with four steps: '1 General Details', '2 Select Topology', '3 Define Security', and '4 Summary' (which is highlighted with a green circle). The main content area is divided into three sections: 'General Details' (showing Template Name: IH Template, Description: Template for IH, and Database: DBAAS5PM PSPDB 20170120-172314), 'Topology' (showing Selected topology: Lift and Shift - DBaaS), and 'Security' (showing Selected Zone: Test, Selected Role: ACM Administrator, and Auto-generate Passwords: No).

The details provided in all the pages in the Environment Template wizard is displayed here.

Submit

Click this button to submit the details for template creation.

Edit/Delete/Clone an Existing Template

User can edit, delete or clone the existing templates using the Environment Template landing page.

Note: It is recommended to recreate the existing templates to ensure that the new custom attributes are available in the template.

- To edit an existing template details, click a row and modify the details as per requirement.
- To delete an existing template, select the radio button corresponding to the template which you want to delete and click the Delete button. Users cannot delete a template, if it is already used for defining an environment.

- To clone an existing template, select the radio button corresponding to the template which you want to clone and click the Clone button available on the Environment Template landing page. The Clone Template modal window is displayed, wherein you can enter the new template name and click the Clone button. The new template is added to the template list.

Default Environment Templates

There are a set of default templates available out of the box after installing Cloud Manager. They are:

- Lift and Shift
- Lift and Shift – DbaaS

These are sample templates that an administrator can use to clone and modify to suit their organization standards. Currently, sample templates are available for development, testing and production.

A default template for Lift and Shift is also available, which is used during environment shifting by default. This Lift and Shift template and its associated topology must be modified such that it is suitable for the environment being shifted. The Lift and shift topology is fixed in terms of number of nodes, but the shape and disk space parameters can be modified. For any environment to be provisioned in CM, the administrator creates a template and a user uses that template to provision. In case of Lift and Shift, a default template is provided out of the box and there is no need to create any templates. When an administrator creates an environment on the Lift and Shift page, the process automatically chooses the default Lift and Shift template. This Lift and Shift template must be modified to suit the environment being shifted. For more details, see [Understanding the Lift and Shift Process](#).

Managing Environments

Cloud Manager provisions PeopleSoft environments on-demand with just a few clicks. The entire provisioning process is automated. At the end of provisioning, a ready-to-use environment is available within a short time. The environments can be created by a three step process:

1. Create Topology
2. Create Template
3. Create Environment

Note: Prior to creating an environment, ensure that the required DPKs are already downloaded in the Repository.

An administrator defines a template for creating an environment. The topology is encapsulated inside the template. Users can select a template, override topologies, change any attributes, if needed and provision PeopleSoft environments on demand.

Users are allowed to perform actions on a running environment, such as stop, view details, create new template from it, and so on. For details, see the Actions on the Environment section under the [Create Environment Page](#).

Note: Also, you must ensure to tune the servers, database, and PeopleSoft system for optimum performance once the deployment is completed.

Pages Used to Manage Environments Tile as an Administrator

Page Name	Definition Name	Usage
<u>Environments Tile</u>	ECL_ENVPROV_FL_GBL (CREF for tile)	Access the Environments landing page.
<u>Environments Page</u>	ECL_ENVPRO_FL	Access the Environments landing page.
<u>Create Environment Page</u>	ECL_ENV_ADD_SCF	Create a new environment.
<u>Environment Details Page</u>	ECL_ENV_DET_FL	Access more details of the environment from one location.
<u>Manage Attributes Page</u>	ECL_ENV_RESET_FL	Update Cloud Manager with environment attributes, if a user modifies it outside Cloud Manager.
<u>Health Check Page</u>	ECL_ENV_HEALT_FL	View the health status of the environment.
<u>Manage PUM Connections Page</u>	ECL_SA_MANAGEPM_FL	Manage PUM connections.
<u>Apply PeopleTools Patch Page</u>	ECL_ENV_PTCHUPD_FL	Apply latest patches.
<u>Upgrade PeopleTools Page</u>	ECL_ENV_UPGD_FL	Update PeopleTools version (major version changes).
<u>Provisioning Status Page</u>	PROV_DETAILS_DIAGR	View environment provisioning status.
<u>Logs Page</u>	ECL_ESEARCH_FL	View logs of all operations such as create, delete, actions performed on the environment, and the like.

Environments Tile

Use Environments tile (ECL_ENVPROV_FL_GBL) to access the Environments landing page.

Navigation

The the Environments tile is delivered as part of the Cloud Manager home page.

Image: Environments tile

This example illustrates the Environments tile.



Environments Page

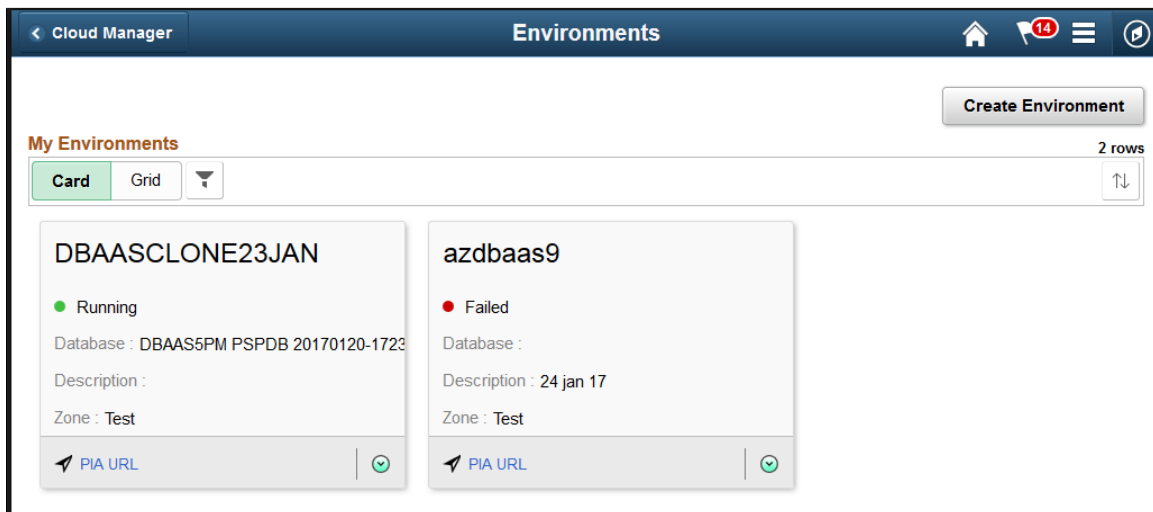
Use the Environments page (ECL_ENVPRO_FL) to access the Environments landing page.

Navigation

Click the Environment tile on the delivered Cloud Manager Fluid home page. The Environments page is displayed.

Image: Environments Page – Card View

This example illustrates the fields and controls on the Environments Page – Card View. You can find definitions for the fields and controls later on this page.



Name

Name of the environment.

Note: Length of Environment name and identity domain name should not exceed 22 characters in OCI-Classic and 20 characters in OCI.

Status	<p>Status of the environment provisioned through Cloud Manager.</p> <p>The different statuses associated with the environment are:</p> <ul style="list-style-type: none"> • Initiating – Environment provisioning is getting initiated. • Provisioning – Environment is getting provisioned. • Failed – The last action performed on the environment failed. • Stopping – Environment is stopping. • Starting – Environment is starting. • Running – Environment is running. • Suspended – Environment is suspended. This status is displayed only when you perform Clone to Template operation on the environment. • Deleting – Environment is getting deleted. • Applying PeopleTools Patch – PeopleTools patch is being applied on the environment. • Upgrading PeopleTools
Description	Meaningful description of the environment.
Zone	Zone in which the environment is deployed.
PIA URL	Indicates the URL used to connect to the provisioned environment.
Create Environment button	Click this button to access the Create Environment page, where you can create new environments.
Related Actions button	Click this button to perform different actions for managing the environment as a whole. For details, see the Actions on the Environment section under the Create Environment Page .

Create Environment Page

Use the Create Environment page (ECL_ENV_ADD_SCF) to create a new environment.

Important! Before creating an environment in OCI, ensure that the template is updated with OCI-specific Infrastructure Settings such as region, compartment, VCN and subnet settings.

Note: While deploying a PI image which has PeopleTools 8.56, then a Windows image which is updated with latest Windows updates and patches must be used. If not, provisioning of PeopleSoft Client will fail.

Navigation

Click the Create Environment button on the Environments landing page.

Image: Create Environment page

This example illustrates the fields and controls on the Create Environment page. You can find definitions for the fields and controls later on this page.

Environment Name

Name of the environment that you want to create.

Note: Length of environment name and identity domain name must not exceed 25 characters in OCI-Classic and 20 characters in OCI.

Description

Meaningful description for the environment that you want to create.

Template Name

Select a template and the zone. On selecting the template, zone options are automatically displayed.

For details on templates, see the Creating a Template section under [Environment Template Page](#).

Creating an Environment

Important! Before creating an environment in OCI, ensure that the template is updated with OCI-specific Infrastructure Settings such as region, compartment, VCN and subnet settings.

To create an environment:

1. Enter the required environment attributes and credentials. For more details on environment attributes for OCI, see [Environment Attributes Details for OCI](#), for OCI-Classic see [Environment Attributes Details for OCI-Classic](#)
2. Click Done to start environment provisioning.

Note: It is possible to enable custom YAML for application server or web server configuration. While creating a new environment, you can input custom YAML under Advanced ,Customization YAML.This facilitates the user to define custom attribute values for the environment being deployed.

Alternately, you can override the default topology and environment attributes while environment provisioning.

The default database operator id for each PeopleSoft PUM instance is listed below:

- For HCM, default database operator id is PS.

- For FSCM, default database operator id is VP1.
- For CRM, default database operator id is VP1
- For ELM, default database operator id is PS
- For IH, default database operator id is VP1
- For CS, default database operator id is PS

Overriding Default Topology and Attributes

If you want to override default topology and attributes, perform the following:

1. Select Yes in Override Topology field.

Image: Create Environment-Override Topology field

This example illustrates the fields and controls on the Create Environment-Override Topology field. You can find definitions for the fields and controls later on this page.

The screenshot shows the 'Create Environment' dialog box. The 'Environment Name' is 'IH' and the 'Description' is 'UI for IH'. The 'Template Name' is 'HCM PUMFT' and the 'Zone' is 'Development'. Under the 'Topology' section, the 'Override Topology' toggle is set to 'No' and is highlighted with a red box. The 'Topology' dropdown is set to 'PUM Fulltier', with a tooltip showing 'Full-tier topology with one Linux node and one Windows Client.' Below this, the 'Environment Attributes' section is expanded, showing 'Full Tier' and 'Credentials' sections. The 'Credentials' section shows a table with 12 rows.

2. Select an appropriate Topology. Corresponding description is displayed in the below text area.
3. Input the required environment attributes. The different attributes are:
 - Middle Tier: Middle Tier is the VM where application server domain, process scheduler domain, and the web server domain are installed
 - Database Tier: Database tier is the VM where the database (non-DbaaS) is installed for the new PSFT system.
 - PeopleSoft Client: PeopleSoft Client is the VM where PeopleTools client (for example, pside) and change assistant are pre-installed
 - Database as a Service: PeopleSoft database is deployed on DBaaS.
4. Enter the PeopleSoft Client credentials and other required attributes.

Some custom attributes are displayed based on the selected topology nodes. If you select an elastic search node, then you need to provide a couple of input parameters and passwords. Currently, if you are using the ES DPK setup script for installing ElasticSearch, then system will not prompt for the admin and proxy usernames. Therefore, it is always esadmin and people for admin and proxy respectively. Password must be of at least 9 characters long and contain a numeric and one uppercase letter. Special characters are not accepted.

Note: In case of OCI, the password for the PeopleSoft Client instance should meet the password complexity as per the OCI requirement.

5. Click Done to start environment provisioning.

Note: Please ensure to tune the servers, database, and PeopleSoft system for optimum performance once the deployment is completed.

Actions on the Environment

You can perform a variety of actions on the environment by using the Related Actions button corresponding to each environment. The actions can be:

- Details: Select this option to view environment details and to perform additional actions on the environment such as performing a health check, applying a PeopleTools patch, viewing logs, and managing PUM connections.
- Start: Select this option to start all MT domains and database.
- Stop: Select this option to stop all MT domains and database.

Note: (For OCI-Classic only) After doing a Migrate to Orchestration, the start/stop action will start or stop the VM instances instead.

- Delete: Select this option to remove the environment.
- Clone to Template: Select this option to create a point-in-time copy of the environment in the form of DPKs out of the running environment and to automatically generate a template that can be used for provisioning again.
- Migrate to Orchestration: Select this option to migrate VMs to Orchestration version2 in Oracle Cloud.

Environment Details Page

The Environment Details page (ECL_ENV_DET_FL) is a navigation collection that enables administrators to access more details of the environment from one location. It also enables the user to perform additional actions that can be performed on the environment such as performing a health check, applying a PeopleTools patch, viewing logs, and managing PUM connections.

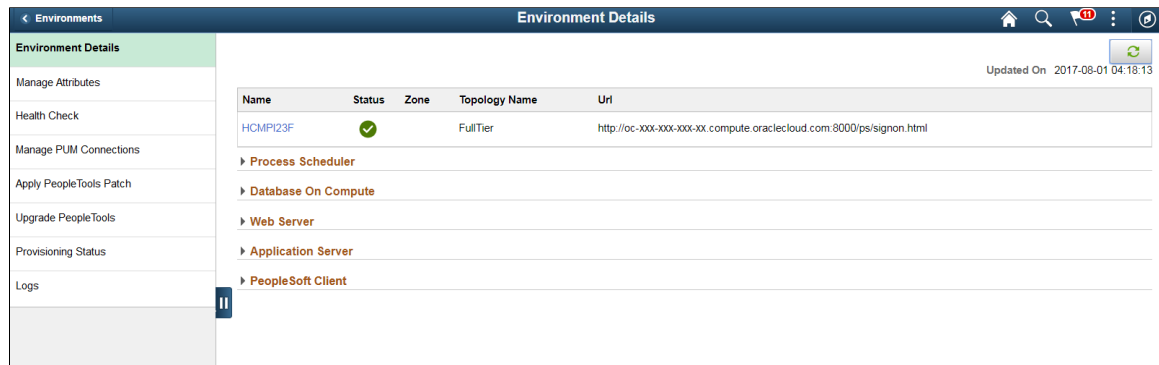
Note: If PeopleSoft client node is not defined in an environment as part of its topology, then Environments page is not displayed.

Navigation

Click the Related Actions button corresponding to the environment. Select Details. The Environment Details page is displayed.

Image: Environments Details Page

This example illustrates the fields and controls on the Environments Details Page. You can find definitions for the fields and controls later on this page.



Refresh button

Click the Refresh button, at the upper-right corner of the page, to fetch the current status of the environment.

Process Scheduler

This section provides details of the process scheduler component of the deployed PeopleSoft application environment. The Process Scheduler is responsible for processing scheduled tasks or jobs that typically do not happen during the course of a user's browser request.

Database on: Compute

This section provides details of the database server of the deployed PeopleSoft application environment. The PeopleSoft applications refers to Oracle PeopleSoft products such as PeopleSoft Customer Relationship Management (CRM), PeopleSoft Enterprise Learning Management (ELM), PeopleSoft Financials and Supply Chain Management (FSCM), PeopleSoft Human Capital Management (HCM), and PeopleSoft Interaction Hub.

Note: The 'Database on: DBaaS' section is displayed only when a user selects 'Database as a Service' node in topology.

Webserver

This section provides details of the web server component of the deployed PeopleSoft application environment.

Appserver

This section provides details of the application server component of the deployed PeopleSoft application environment. The application server acts as the business logic engine of the PeopleSoft system.

Database on: DBaaS

This section provides details of the database server of the deployed PeopleSoft application environment. The PeopleSoft applications refers to Oracle PeopleSoft products such as PeopleSoft Customer Relationship Management (CRM),

PeopleSoft Enterprise Learning Management (ELM), PeopleSoft Financials and Supply Chain Management (FSCM), PeopleSoft Human Capital Management (HCM), and PeopleSoft Interaction Hub.

PeopleSoft Client

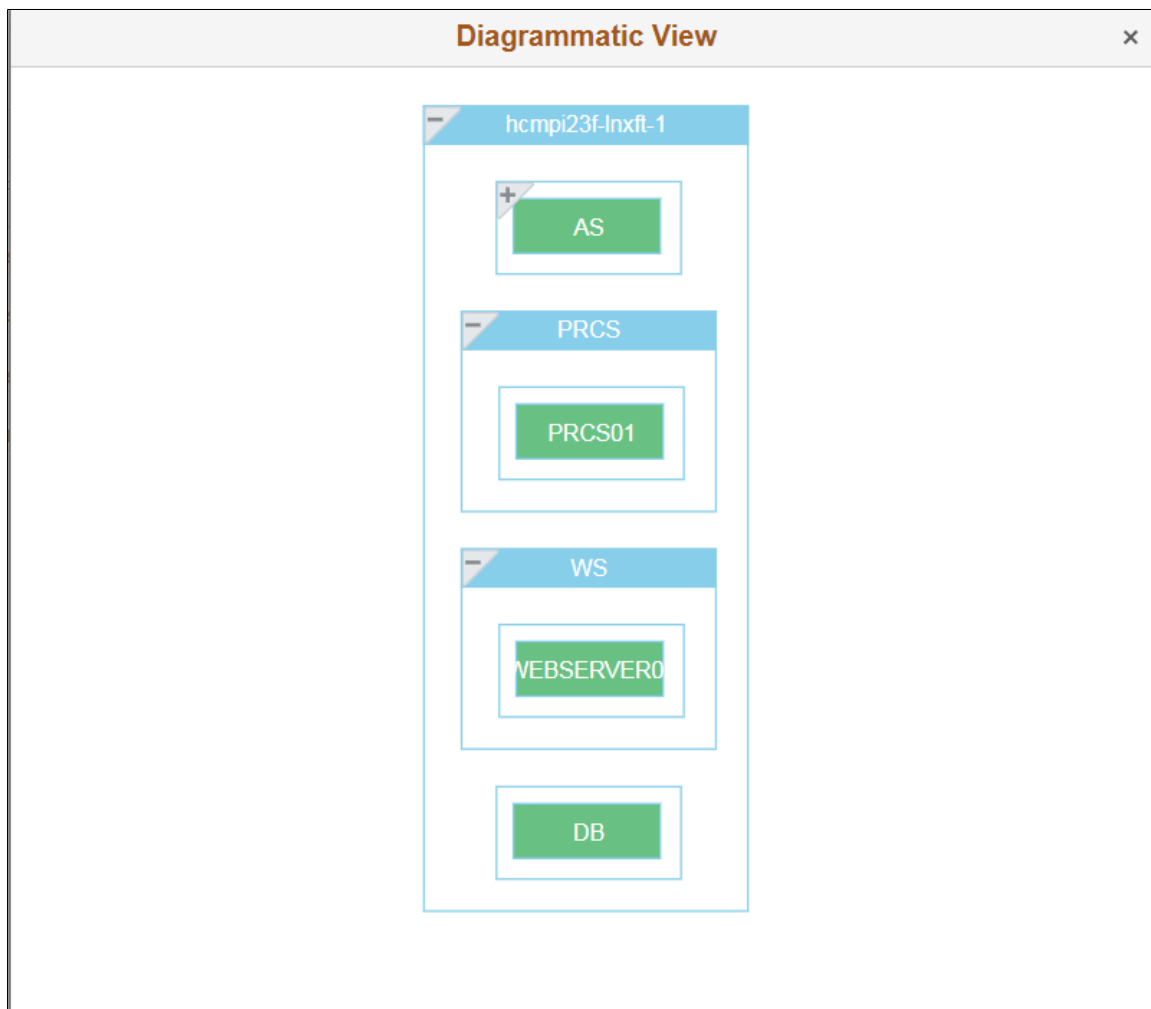
This section provides details of the Windows Client of the deployed PeopleSoft application environment. This is the Microsoft Windows virtual machine on which PeopleSoft Application Designer and PeopleSoft Change Assistant will be installed.

Note: To access PSIDE (PeopleSoft Application Designer) and Change Assistant applications for this environment, you need to RDP to Windows VM using the IP address or hostnames provided under the PeopleSoft Client section.

Click the environment name to view a diagrammatic representation of all the instances and domains running inside the VMs as shown.

Image: Diagrammatic View

This example illustrates the fields and controls on the Diagrammatic View page.

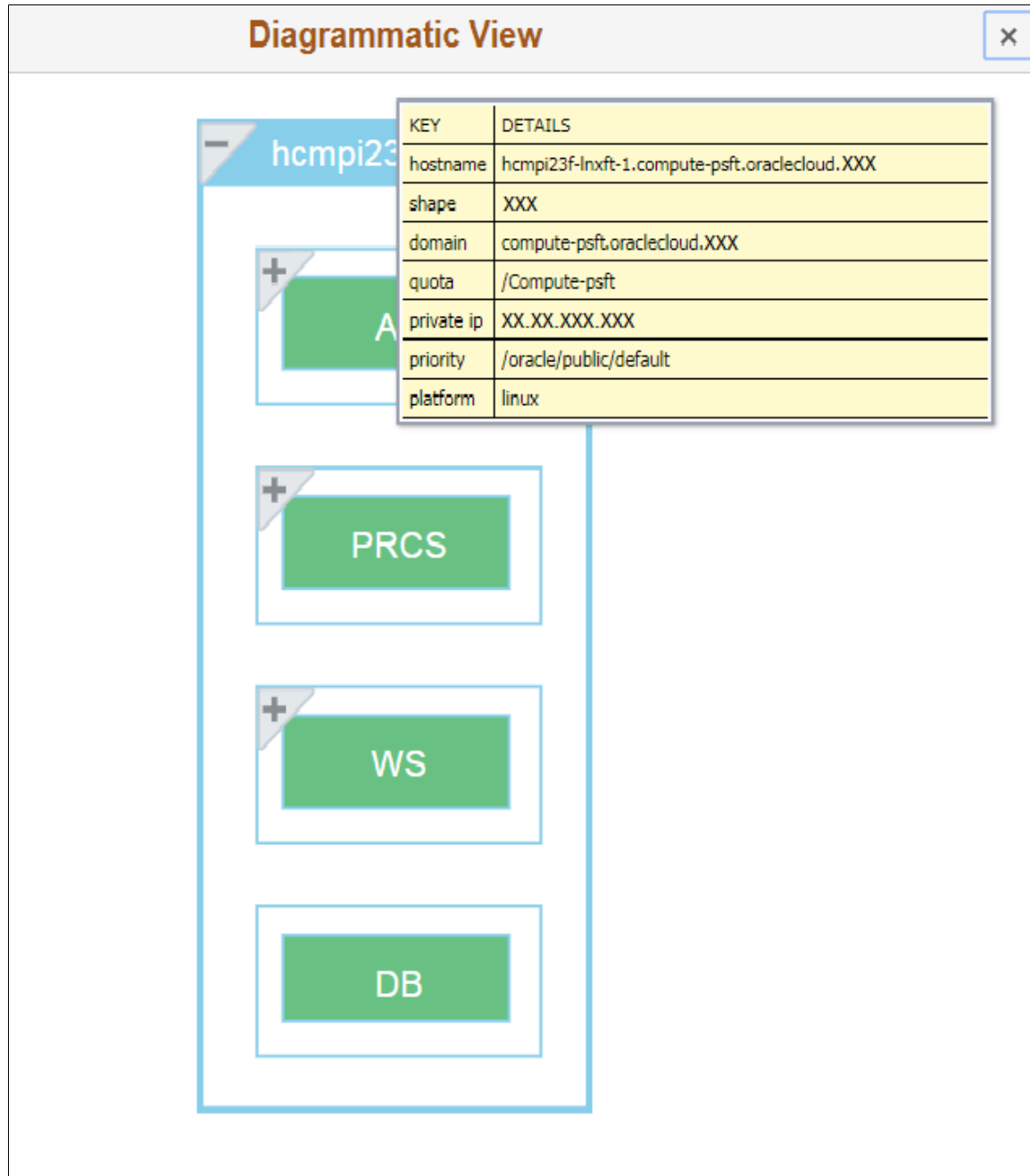


Hover the mouse over each instances for viewing the details.

You can view the status of different PeopleSoft services running within the VMs (application servers domains, process scheduler domains, web server domain, and the like) as shown:

Image: Diagrammatic View Instance Details

This example illustrates the fields and controls on the Diagrammatic View Instance Details page.



As an illustration, Process Scheduler domain details are described in the following section.

Process Scheduler Domain

This section provides details of the process scheduler component of the deployed PeopleSoft application environment. The Process Scheduler is responsible for processing scheduled tasks or jobs that typically do not happen during the course of a user's browser request.

Navigation

Expand Process Scheduler available on the Environment Details page.

Image: Process Scheduler Section

This example illustrates the fields and controls on the Process Scheduler section.

▼ Process Scheduler				
▼ Instance : hcmpi23f-lnxft-1				
Name	Status	Type	Platform	Host Name
hcmpi23f-lnxft-1	✓	Full Tier Instance	linux	hcmpi23f-lnxft-1.compute-psft.oraclecloud.xxx
▼ Domains				
Name ↕	Status	prcs_server_name ↕	db_name ↕	
PRCS01	✓	PRCS8091	PSPDB	

Instance Details Modal Window

Use Instance Details modal window to view more details about the virtual machine.

Navigation

Click on the instance name.

Image: Instance Details modal window

This example illustrates the fields and controls on the Instance Details modal window.

Instance Details: xxxxpi23f-xxxxx:1

▼ Configuration

Attribute Name	Attribute Value
priority	/oracle/public/default
private ip	XX.XX.XXX.XXX
quota	/Compute-psft
domain	compute-psft.oraclecloud.xxx
shape	XXX

▼ Storage Volumes

Name	Status	Size
xxxpi23f-XXXt-1_storage_2	Online	100 GB
xxxpi23f-XXX-1_storage_1	Online	30 GB

Domain Details Modal Window

Use the Domain Details modal window to view domain details.

Navigation

Click on the domain name.

Image: Domain Details Modal Window

This example illustrates the fields and controls on the Domain Details Modal Window.

Domain Details: PRCS	
▼ Configuration	
Attribute Name	Attribute Value
db_name	PSPxxx
connect_id	people
prcs_server_name	PRCSxxx1
db_type	ORACLE
opr_id	PS
▼ Enabled Features	
Name	
Master Scheduler	
App Engine	
Perf Collator	

Master Scheduler, App Engine, and Performance Monitor features can be enabled for the instance.

Health Check Page

Use the Health Check page (ECL_ENV_HEALT_FL) to view or retrieve latest health status of the environment.

Note: The Health Check page is specific to CM on OCI-Classical. This page doesn't exist in CM for OCI.

Navigation

Click the Health Check link available on the left panel of the Environment Details page. The Health Check page is displayed in the right panel.

Image: Health Check Page

This example illustrates the fields and controls on the Health Check Page.



Retrieve Health Status button

Click this button to run a health check on the environment. It will take a few minutes to complete health check and a notification will be shown when it is complete.

Manage PUM Connections Page

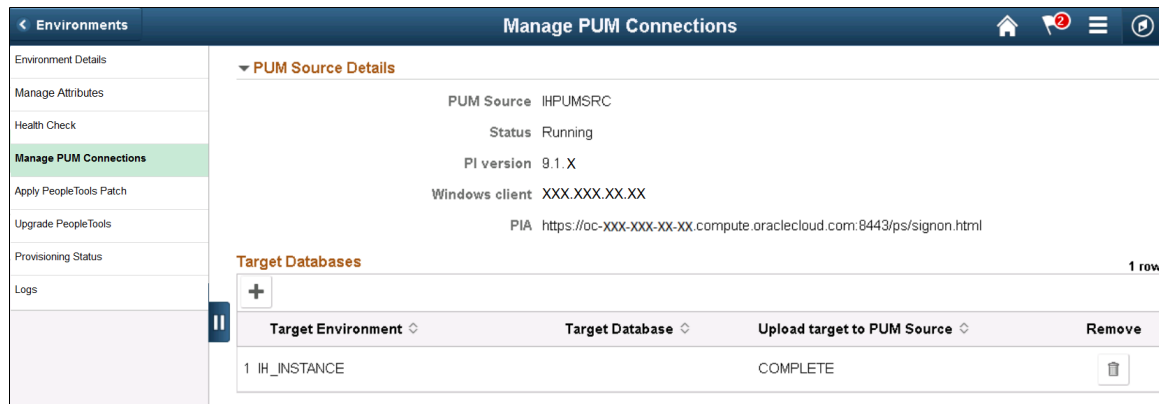
Use the Manage PUM Connections page (ECL_SA_MANAGEPM_FL) for setting up environments for selective adoption. This page appears only for environments that were deployed using a PeopleSoft Update Image and has a PeopleSoft Client (Windows Client) as part of the environment. This environment can act as a PUM Source environment. You can manage target databases for the PUM Source from this page, which will add or remove specified target databases to the PUM source environments. After adding target databases, administrators can use the PIA URL shown on this page to access PUM Dashboard to define change packages. To create and apply change packages, access Change Assistant that is installed on the PeopleSoft client. To access Change Assistant, use remote desktop (RDP) to Windows Client.

Navigation

Click the Manage PUM Connections link available on the left panel of the Environment Details page. The Manage PUM Connections page is displayed in the right panel.

Image: Manage PUM Connections Page

This example illustrates the fields and controls on the Manage PUM Connections Page.



Adding Target Databases

To add a target database which you want to update, perform the following:

1. Click Add target button available in the Target Databases section. This displays the Select Target modal window as shown.

Image: Select Target modal window

This example illustrates the fields and controls on the Select Target modal window.



2. Select the required target environment.
3. Click Add. This action starts the 'Add Target' and 'Upload to PUM Source' functionality. The status is displayed as either In progress, Complete or Failed.

Apply PeopleTools Patch Page

Use the Apply PeopleTools Patch page (ECL_ENV_PTCHUPD_FL) for applying latest PeopleTools patches.

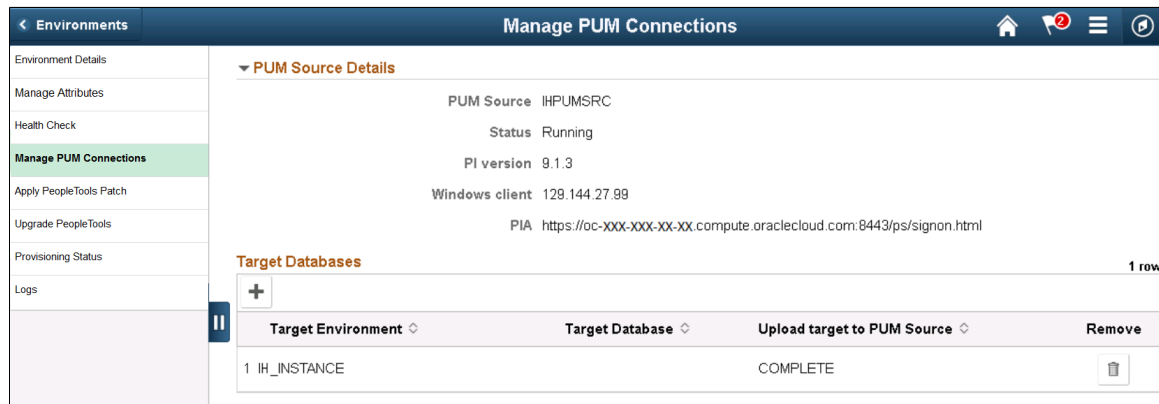
Note: For applying PeopleTools patch, please ensure that the corresponding environment has a Windows client.

Navigation

Click the Apply PeopleTools Patch link available on the left panel of the Environment Details page. The Apply PeopleTools Patch page is displayed in the right panel.

Image: Apply PeopleTools Patch Page

This example illustrates the fields and controls on the Apply PeopleTools Patch Page.



Select a Patch to Apply

Select an appropriate PeopleTools patch to be applied on the target environment.

Apply

Click this button to apply the changes.

Note: User can select the patch update entry from the grid to see a window which shows the tasks executed for the patch update process and their real-time status. There is provision to mark failed tasks as complete so as to complete the patch update use-case in failure scenarios. This is applicable only for OCI.

Note: Ensure that the latest PeopleTools patch is already downloaded and available in the Repository.

Upgrade PeopleTools Page

Use Upgrade PeopleTools page (ECL_ENV_UPGD_FL) to update PeopleTools version (major version changes).

Note: Minimum supported PeopleTools 8.56 patch for shift, PeopleTools update or upgrade is 8.56-02.

Navigation

Click the Upgrade PeopleTools link available on the left panel of the Environment Details page. The Upgrade PeopleTools page is displayed in the right panel.

Note: The Upgrade PeopleTools link is available only if a PUM client is associated with the selected environment.

Note: PeopleTools upgrade to 8.56 requires user to login to the windows client VM at least once before starting the upgrade process.

Image: Upgrade PeopleTools page

This example illustrates fields and controls on the Upgrade PeopleTools page.

Upgrade PeopleTools

Select PeopleTools Release

Current PeopleTools version: 8.55.14

Upgrade to:

Microsoft Windows Client VM (Change Assistant)

Windows Client VM of this environment will be used to apply selected PeopleTools patch.

Microsoft Windows Client VM xxx-winwc-2

Note – Updated Change Assistant will be installed on this VM and will replace the existing version.

Upgrade

Upgrade to

Select the major PeopleTools version.

Upgrade

Click this button to apply the changes.

Before doing Upgrade, user must ensure to take a backup of the environment.

After clicking the Upgrade button, a new job with status is displayed as shown.

Image: Upgrade PeopleTools Job Information Page

This example illustrates the environment upgraded to 8.56.90311 version from 8.55.14.

Upgrade PeopleTools

Select PeopleTools Release

Current PeopleTools version: 8.56.90311

Upgrade to:

Microsoft Windows Client VM (Change Assistant)

Windows Client VM of this environment will be used to apply selected PeopleTools patch.

Microsoft Windows Client VM xxx-winwc-3

Note – Updated Change Assistant will be installed on this VM and will replace the existing version.

Upgrade

Job	Status	Delete History
PeopleTools 8.55.14 upgrade to 8.56.02 on 28-07-2017 12:19:43	Completed	

1 row

Click on the job status, the Job Status Information modal window is displayed where you can view detailed information regarding the job.

Image: Job Status Information Modal Window

This example illustrates the fields and controls on the Job Status Information Modal Window.

Job status information			
PUM Client	xxx-winwc-3		
Source tools version	8.55.14		
Target tools version	8.56.02		
Old PS_HOME	/u01/app/oracle/product/pt/ps_hx.xx.xx		
New PS_HOME	/u01/app/oracle/product/pt/ps_hx.xx.xx		
Job Status	Completed		
Start time	07/28/17 12:19:43PM		
End time	07/28/17 5:07:58PM		
		5 rows	
Step name		Status	
1	Stopping middletier in xxx-lnxxt-2	Completed	
2	Install Change Assistant	Completed	
3	Copy Change Package Binaries	Completed	
4	Database Upgrade	Completed	
5	MT upgrade in xxx-lnxxt-2	Completed	

You can view upgrade process details such as jobs executed successfully, jobs which are in pending status, and failed jobs.

Provisioning Status Page

Use Provisioning Status page (PROV_DETAILS_DIAGR) to access provisioning details and error summary, if the provisioning failed.

Navigation

Click the Provisioning Status link available on the left panel of the Environment Details page. The Provisioning Status page is displayed in the right panel.

Image: Provisioning Status Page in OCI-Classiic

This example illustrates the fields and controls on the Provisioning Status Page in OCI-Classiic.

Status Message	Status	Time Stamp
1 Instance Creation for a-linxdb-2	STARTED	08/11/17 11:31:33AM
2 Instance Creation for a-linxdb-2	SUCCESS	08/11/17 12:08:44PM
3 Provisioning of DB Components for A	STARTED	08/11/17 12:17:37PM
4 Provisioning of DB Components for A	SUCCESS	08/11/17 12:37:24PM

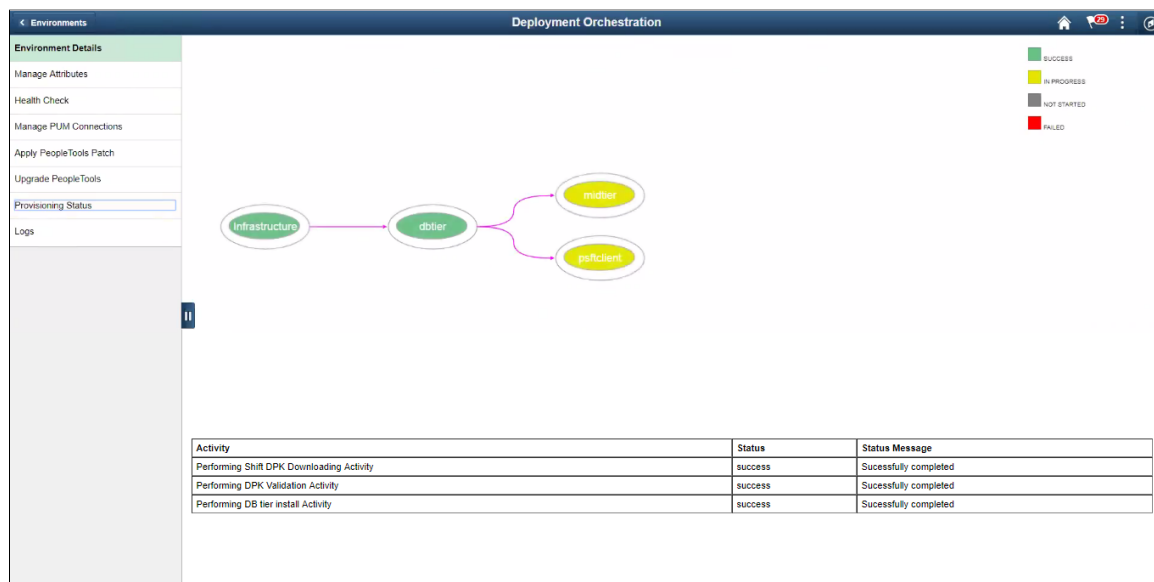
Status Message	Status	Time Stamp
1 IP Reservation for a-linxmt-1	SUCCESS	08/11/17 12:10:51PM
2 Storage Volume of size 30G Creation for a-linxmt-1	SUCCESS	08/11/17 12:11:12PM
3 Storage Volume of size 100GB Creation for a-linxmt-1	SUCCESS	08/11/17 12:11:23PM

Different provisioning statuses are:

1. IP address reservation - Cloud Manager reserves a public IP address for the VM.
2. Storage Volume creation - Cloud Manager creates a block storage volume in the OPC. Two types of storage volumes in CM of volumes are data volume and boot volume.
3. Instance creation - Creation of actual VM.
4. Provisioning - Installation of PeopleSoft.

Image: Provisioning Status Page in OCI

This example illustrates the fields and controls on the Provisioning Status page in OCI. You can find definitions for the fields and controls later on this page.



The successfully processed tasks (In the example above see, Infrastructure and dbtier) are displayed in green. The In Progress tasks are displayed in yellow. For the green and yellow nodes, you can only view the status details. Right-click a green or yellow node, and then click the Status Details option to view the status information of that task in a grid below.

The failed tasks are displayed in red, and you can right-click the red node to view two options: Status Details and Manually Fixed. Click the Status Details option to view details of the errors in a grid below. The Manually Fixed option should be clicked only after fixing the errors manually.

Manually Fixing DB Errors in OCI

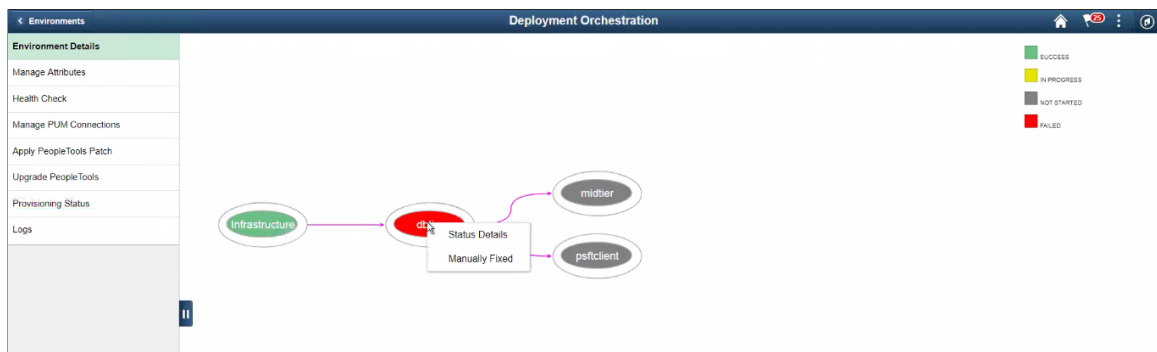
During Lift and Shift process, if any errors are encountered in the DB tier, the tasks of the dependent tiers also stop. Cloud Manager provides an option to manually fix these errors, so that the dependent tier's tasks can automatically start.

To manually fix the DB errors, perform the following:

1. Navigate to the Provisioning Status page of the failed environment.
2. Right-click the failed DB tier displayed in red.

Image: Provisioning Status page – failed node

This example illustrates the Provisioning Status page displaying a failed node.



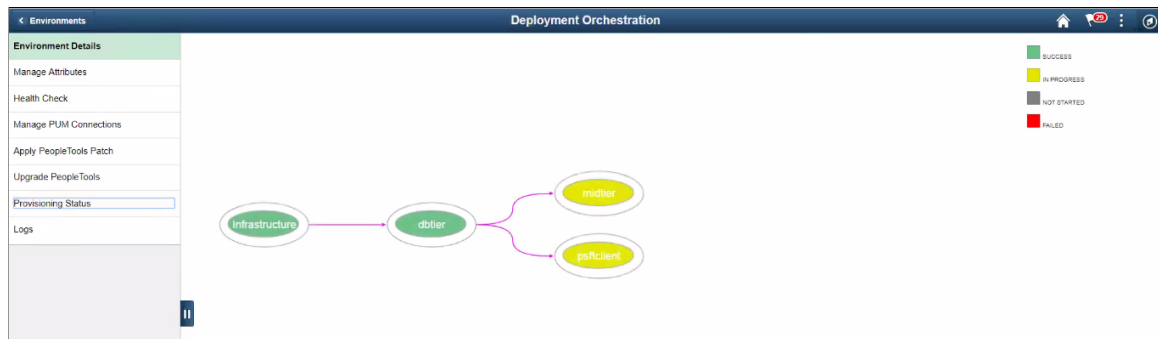
The successfully processed tasks (here Infrastructure) are displayed in green. For these you can only view the status details. The failed tasks are displayed in red, and you can view the two options: Status Details and Manually Fixed.

3. Click Status Details in the failed node to view the related activities and its status.
4. Based on the status messages of the failed activities, manually fix the errors. Manually fixing typically happens outside of Cloud Manager (e.g. user logs on into the DB machine, looks at the logs, fixes things etc, starts the database and then comes back to CM screen).
5. Once the errors are manually fixed, navigate back to the Provisioning Status page.
6. On the failed node, click the Manually Fixed option.

Manually refresh the Provisioning Status page. It might take several seconds for the new task to start so that it becomes green in color. The dependent nodes turn yellow, indicating the associated activities are in progress.

Image: Provisioning Status page – manually fixed

This example illustrates the Provisioning Status page displaying the dbtier node manually fixed.



Manage Attributes Page

Use the Manage Attributes page (ECL_ENV_RESET_FL) to update managed environment attributes, if user modified any parameter outside Cloud Manager and for adding PeopleSoft (Windows) Client.

Note: After updating environment attributes on this page, it is recommended to run a health check to ensure the settings are right and the environment is accessible and running.

Navigation

Click the Manage Attributes link available on the left panel of the Environment Details page. The Manage Attributes page is displayed in the right panel.

Image: Environment Details — Manage Attributes Page

This example illustrates the fields and controls on the Environment Details — Manage Attributes Page.



You can edit the required parameters by expanding each domain and click save. For details on environment attributes, see Environment Attribute Details section in [Managing Template](#).

Note: The Manage Attributes page must be updated only when a user modifies the environment attributes directly on the instance. For example, if a user modifies the OPR ID Password on the instance directly, then user must update and save the password for CM to store in its database. Otherwise, the password stored in CM will be stale and any operation that is dependent on this OPR ID Password will fail. It is recommended to perform a health check after modifying any attributes, to ensure that changes have not caused any issues in the environment.

Logs Page

Use the Logs page (ECL_ESEARCH_FL) to view the logs for all actions that are performed on the environment.

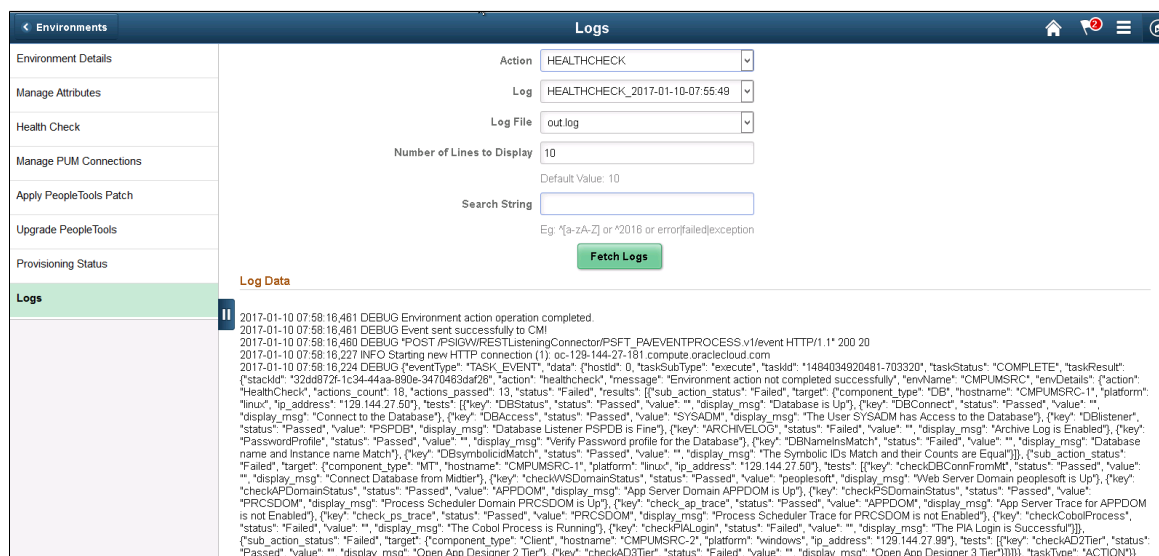
Note: The contents of the log files are displayed in reverse (latest first) order.

Navigation

Click the Logs link available on the left panel of the Environment Details page. The Logs page is displayed in the right panel.

Image: Logs Page

This example illustrates the fields and controls on the Logs Page.



Clone to Template

The Clone to Template process creates a point-in-time copy of the environment in DPK format and saves it in the repository. Using the same DPKs a new environment template is created and saved under Templates. The environment used for cloning is taken offline and is unusable during the clone to template process.

Note: Ensure that the file server has enough capacity for 'Clone to Template' operation. The capacity required is 2.5 times the size of database that is being cloned.

To clone the template, perform the following:

1. Click the Related Actions button corresponding to the environment you want to clone. Select the Clone to Template option. This displays the Clone to Template modal window.

Image: Clone to Template modal window

This example illustrates the fields and controls on the Clone to Template modal window.



2. Enter the new template name.
3. Click Clone.

Note: When the user clicks Clone button, the environment goes into the Suspended state.

After successful completion of the clone to template process, the new template is available under Environment Template. This template can then be modified to suit the needs by adding a topology, specify custom attributes and add user roles. This new template can then be used to deploy a new environment which is a clone of the environment that was used for 'clone to template'.

The template name generated after the cloning process will be in the format as mentioned below:

<UserInputFor Template Name> <Database Name> <data in YYYYDDMM-mmHHss>

For example, if the template name specified by the user is CLONETEMPL and the database name is PSDBD and Clone to Template process is initiated on 17th Jan 2017 at 3:18 PM, then the template name is displayed as "CLONETEMPL PSDBD 20170117-151847".

Clone to Template on Environments with TDE-Enabled Database for OCI–Classic

Cloud Manager supports lift and shift of environments with TDE-enabled databases, and users can perform clone to template only on those environments.

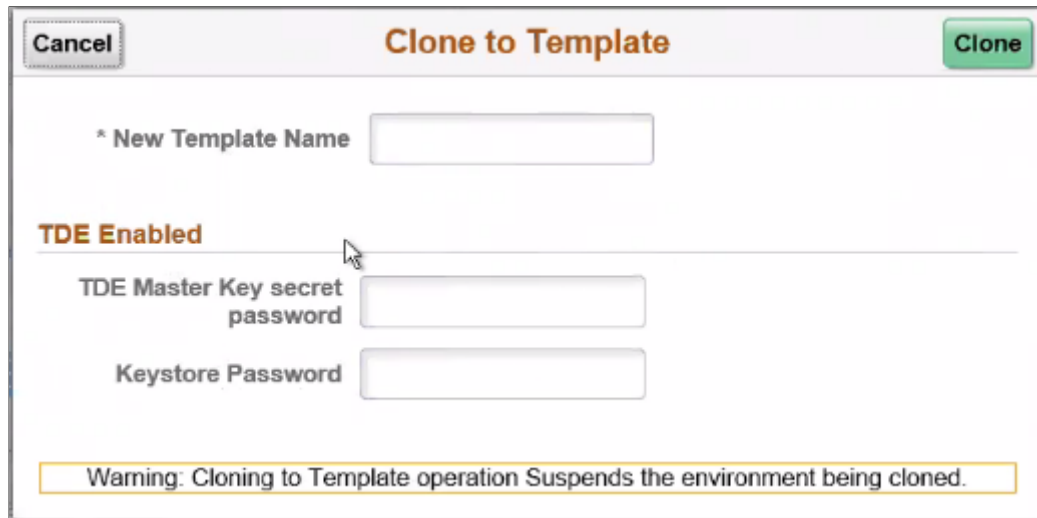
Important! Cloud Manager will not support manually encrypting a managed environment which was not TDE encrypted.

To clone the template, perform the following:

1. Click the Related Actions button corresponding to the environment you want to clone. Select the Clone to Template option. This displays the Clone to Template modal window.

Image: Clone to Template modal window for Encrypted Tablespace

This example illustrates the fields and controls on the Clone to Template modal window for encrypted tablespace.



2. Enter the new template name.
3. Enter the TDE Master Key Secret Password. TDE Master Key Secret Password is a password or phrase with which you use to encrypt the Master key file that is generated while doing the clone.
4. Enter the Keystore Password for the wallet.
5. Click Clone.

Note: When the user clicks the Clone button, a Zip file containing the exported keys, is created on the machine where the clone operation is performed. You need to copy the file from that machine and put it in Cloud Manager before creating environment template. This key file is encrypted using the password that was input in step 3 above. For details on deploying this cloned template, see Clone to Template section.

Migrate to Orchestration for OCI–Classic

Cloud Manager deploys PeopleSoft instances using Launchplan APIs, but you cannot start or stop an instance as per requirements. Migrate to Orchestration feature facilitates to migrate VMs to Orchestrations version2 in Oracle Cloud, so that you can start/stop VMs on demand. With this migration, new orchestrations are created in Oracle Cloud. These new orchestrations can be viewed and managed from the Orchestrations tab in Oracle Cloud web UI console.

Note: This feature is specific to Cloud Manager on OCI-Classic.

Note: VMs are still created using Launchplan APIs, but a new option is now provided that will convert them to Orchestrations v2.

To migrate an environment to Orchestration, perform the following:

Note: It is recommended to stop all services on the managed environment that will be migrated to orchestration to avoid database inconsistencies.

1. Click the Related Actions button corresponding to the environment you want to migrate. Select the Migrate to Orchestration option. This will start migrating the environment to Orchestration. You can verify the operation through the Orchestrations page in Oracle Cloud UI as well as from the psp.log file in \$PS_CFG_HOME/appserv/prcs/PRCSDOM/LOGS/ directory.

Note: Once the environment is migrated to orchestration, the option “Migrate to Orchestration” is not available in the related actions.

2. You can perform the following actions corresponding to the orchestrated environment:
 - Stop: Click Stop to stop the VM instance. In this case, the storage volumes are persisted, and only the instance is stopped.
 - Start: Click Start to recreate the VM instance.
 - Delete: Click Delete to delete the VM instance. The entire storage volumes as well as the VM instance is removed as part of this operation.

Note: After migrating to orchestrations, the start and stop actions in the related actions menu on the environment card will no longer start or stop MT services and database.

Note: After an environment is migrated to orchestration, if the PIA URL is not accessible, it is most likely the DB and MT services are not running. User must manually start all required services - DB, Listener and App Server, Web Server, and Process Scheduler domains.

Using the Lift and Shift Process to Migrate On-Premise Environments to Oracle Cloud

Understanding the Lift and Shift Process

The Lift and Shift process in Cloud Manager enables the automated migration of on-premise PeopleSoft environments to Oracle Cloud. Migration to Cloud is achieved in two steps:

- **Lift:** Using the lift utility provided in Cloud Manager, PeopleSoft Application environment data (for example, PS_APP_HOME, PS_CUST_HOME) and PeopleSoft Oracle database is packed into DPK format and uploaded to Oracle Storage Cloud.

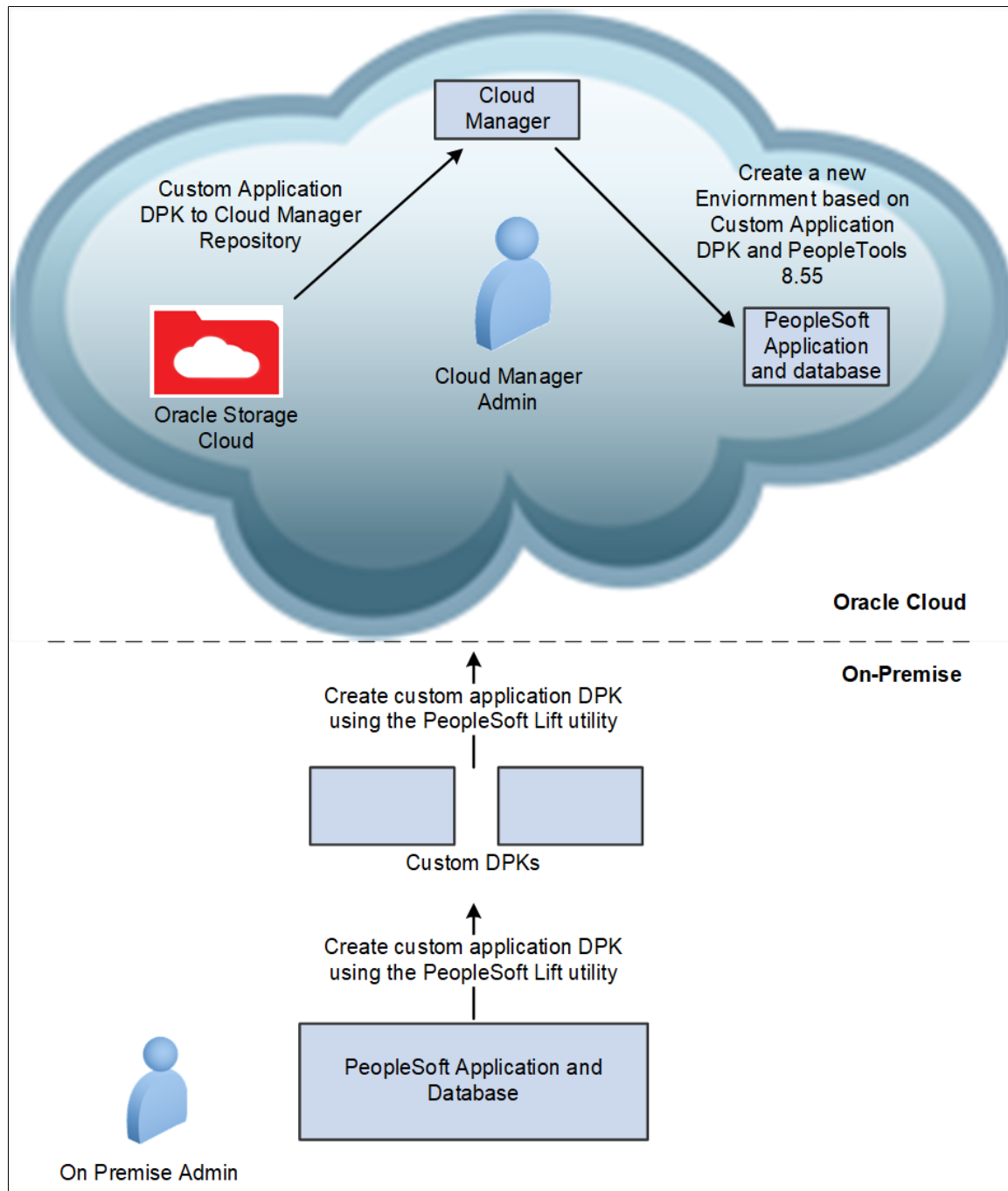
Note: The DPKs that were lifted using older versions of CM, may not be successfully shifted in CM 6.

- **Shift:** Cloud Manager downloads the lifted DPKs and creates a new environment on Oracle Cloud. Once shifted, customers can use the Oracle Cloud to further manage, scale up or scale down or clone these environments.

Note: Before doing a Shift action, Lift and Shift topology must be updated with the right VM shapes for each node.

Image: Lift and Shift Process

Overview of the Lift and Shift process



One of the most complex and difficult processes is migrating an environment from on-premise to the Cloud. Customers will download the Lift software from the Cloud Manager and run it on an on-premise environment to create and upload customer application DPKs to the Oracle Cloud Service. Then using Cloud Manager, they use the customer application DPK to create a running application environment intact with all the customizations that have been done on-premise. It is a two-step process that simplifies days of laborious tasks. The Lift and Shift process is helpful to migrate many of your different environments to the Oracle Cloud. Use it for demonstration, development, test, and training environments. Once an environment has been lifted, you can provision as many separate instances as you need.

To migrate a PeopleSoft environment from on-premise to Oracle Cloud using Cloud Manager, it must be on Linux (OEL/RHEL), running application version 9.2 or above. The database must be on Oracle 12c and PeopleTools version 8.55 or above.

Understanding the Minimum Requirements for the Lift and Shift Process

The following are some of the considerations which users need to plan before migrating environments to Oracle Cloud:

- Supported Oracle versions are 11g and 12c.
- If you do not want to make application access public, other alternatives such as VPN must be evaluated.
- If you do not want your web sites to be public, you will have to work with the Cloud team to figure out alternatives. (For example, VPN)
- All third party integration will need to be manually reviewed and set up.
- If the lifted environment requires COBOL, then it must be manually installed and configured after Cloud Manager shifts the environment.
- Users may have to get new certificates for SSL and SFTP support.
- The minimum PeopleTools version is PeopleTools 8.55.12.
- The minimum PeopleSoft applications version is PeopleSoft 9.2.
- The Lift and Shift process is supported only on Linux environments. Any OS-specific customizations will not be lifted and must be manually re-configured on the shifted environment.
- Any application-specific software or installations or configurations will need to be manually configured.
- Lift of RAC databases is not supported for this release. Shift to RAC is supported.
- Lift of TDE-enabled databases is supported for OCI-Classic only. Source environments must be encrypted using TDE before lift.
- Lift should be performed on a Linux system with Python 2.7.9 set as default for Python.
- When performing Remote Lift and connecting to the remote machine with a password, do not include special characters such as `*? [] ' " \ # ; & () | ^ < >` new-line space and tab in the password.

Note: Remote Lift for TDE database is not supported.

- Currently, in PeopleSoft Cloud Manager, an updated version of the Lift utility is available that captures more details from the on-premise environment. DPKs that were lifted earlier using older versions of the Lift Utility can no longer be deployed in CM 06. Hence, you must delete those old DPKs and do a lift operation again on the on-premise environments.
- OCI-CLI must be installed in order to lift to OCI.

See Oracle Cloud Infrastructure documentation regarding installing OCI-CLI.

Pre-requisites for Lifting Non-Unicode Database

The source database (Lift) environment must have NLS_LENGTH_SEMANTICS set to 'BYTE' for non-unicode and 'CHAR' for unicode database. The user can run the below SQL command on the source database to identify its NLS_LENGTH_SEMANTICS: SQL> select value from V\$NLS_PARAMETERS WHERE PARAMETER = 'NLS_LENGTH_SEMANTICS'.

Using the Lift Process to Migrate an Environment to the Oracle Cloud for OCI and OCI-Classi

Use the Lift process to migrate your on-premise PeopleSoft environment to the Oracle Cloud.

Pages Used to Migrate the Environment to Oracle Cloud

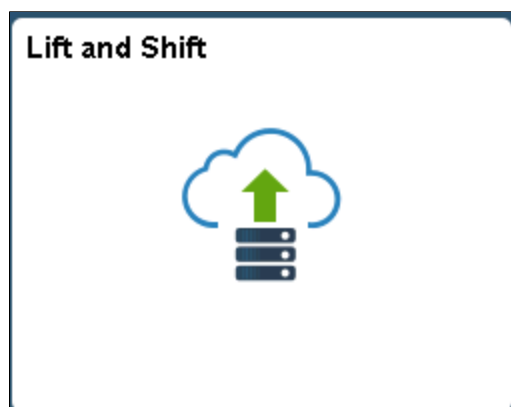
<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
<u>Lift and Shift Tile</u>	ECL_LAS_HOME_FL_GBL (CREF for the tile)	To access Lift and Shift landing page.
<u>Lift and Shift Page</u>	ECL_LAS_HOME_FL	The landing page containing the lift utility and the lifted containers.

Lift and Shift Tile

Use the Lift and Shift tile (ECL_LAS_HOME_FL_GBL) to access Lift and Shift landing page. The Lift and Shift tile is delivered as part of the Cloud Manager home page.

Image: Lift and Shift Tile

This example illustrates the Lift and Shift tile.



Lift and Shift Page

Use the Lift and Shift landing page (ECL_LAS_HOME_FL_GBL) to view and access the lifted environments (uploaded customer DPKs in Oracle Cloud for Cloud Manager).

Navigation

Click the Lift and Shift tile on the delivered Cloud Manager Fluid Home page. The Lift and Shift page is displayed.

Image: Lift and Shift page

This example illustrates the fields and controls on the Lift and Shift page.

	Name	TDE Enabled	Character Set	National Character Set	Type	Platform	Size	Uploaded On	Action
1	GP856	FALSE	UTF8	AL32UTF8	HCM	linux	2.20 GB	02/05/2018 19:43:54	Action
2	ELVINI	TRUE	UTF8	AL32UTF8	HCM	linux	3.17 GB	02/26/2018 07:52:39	Action
3	ELVINII	FALSE	UTF8	WE8ISO8859P1	HCM	linux	4.30 GB	02/26/2018 12:00:04	Action
4	IRWPDB3	FALSE	UTF8	AL32UTF8	HCM	linux	1.91 GB	02/02/2018 09:43:45	Action
5	NC85515	FALSE	UTF8	WE8ISO8859P1	HCM	linux	6.17 GB	01/08/2018 18:45:10	Action
6	NTDE855	FALSE	UTF8	AL32UTF8	HCM	linux	1.68 GB	01/08/2018 18:46:11	Action
7	NUNI856	FALSE	UTF8	WE8ISO8859P1	HCM	linux	12.39 GB	01/08/2018 18:45:10	Action
8	SNUTDE9	TRUE	UTF8	WE8ISO8859P1	HCM	linux	6.12 GB	03/12/2018 10:03:05	Action

Note: Currently, in PeopleSoft Cloud Manager, an updated version of the Lift utility is available that captures more details from on premise environment. DPKs that were lifted earlier using older versions of Lift Utility can no longer be deployed in CM 06. Hence, you must delete those old DPKs and do a lift operation again on the on-premise environments.

Name	Name of the lifted environment
TDE Enabled	Whether the database has encrypted tablespaces or not.
Character Set	The database character set used for lift operation.
National Character Set	Whether the database is unicode or non unicode. AL32UTF8 indicates unicode database and the value WE8ISO8859P1 indicates non unicode database.
Type	Shows the PeopleSoft application product pillar.
Platform	Indicates the Operating System platform.
Size	Total size of the lifted DPKs.

	Note: Assume that if the lifted DPK size is K, then the disk size should be 2.5 times K.
<hr/>	
Uploaded On	The date and time on which the DPKs were uploaded in Oracle Cloud.
Action	Use this button to perform a variety of related actions, such as viewing the details of each of the lifted DPKs, provisioning a new environment, and to delete a lifted DPK.
List Object Store Items	Click this button to refresh the lifted application list and make it current.

Lift Prerequisites for OCI and OCI-Classical

The Lift utility provided in Cloud Manager lifts the application tier (middle tier) and database tier independently and packages them into separate DPKs. Prepare the database and middle tier instances as suggested below:

Lift should be performed on a Linux system with Python2.7.9 set as default for python.

Note: The DPKs that were lifted using older versions of CM, may not be successfully shifted in CM 6.

Lift Prerequisites for OCI

On OCI, you must perform the following prerequisites:

1. Install Python 2.7

- a. Remove old Python files by executing the command `rm -rf <Lift_Utility unzipped folder>/lnx_python/*`

- b. Install the prerequisites by executing the following commands:

```
sudo yum install gcc
sudo yum install libffi-devel
sudo yum install openssl-devel
```

- c. Download Python 2.7 by executing the following commands:

```
cd <temp location to hold the python source>
wget https://www.python.org/ftp/python/2.7.10/Python-2.7.10.tgz
tar xzf Python-2.7.10.tgz
cd Python-2.7.10
```

- d. Configure and compile the source by executing this command:

```
./configure --prefix=<Lift_Utility unzipped folder>/lnx_python
make altinstall
```

- e. Create a softlink for the Python executable by running the following commands:

```
cd <Lift_Utility unzipped folder>/lnx_python
ln -s bin/python2.7 python
```


- f. Set environment variables. Do the following:

```
export PYTHON_HOME=<Lift_Utility unzipped folder>/lnx_python
export PYTHONPATH=<Lift_Utility unzipped folder>/lnx_python
export PATH=<Lift_Utility unzipped folder>/lnx_python/bin:<Lift_Utility unzipped folder>/lnx_python:$PATH
```

- g. Install pip with this command:

```
<Lift_Utility unzipped folder>/lnx_python/python -m ensurepip
```

2. Install the oci_cli package.

- a. Download the oci_cli package with these commands:

```
cd <temp location to hold the oci-cli install file>
wget https://pypi.python.org/packages/47/c4/c1c3944dfb19a99d9187a89b166f6⇒
4ec1b03ced6ba33efd08b2b3d770ace/oci_cli-2.4.13-py2.py3-none-any.whl#md5=f⇒
9130baf7db6a910a8eae1bb87e6c461
```

- b. Install the package with this command:

```
pip install oci_cli-2.4.13-py2.py3-none-any.whl
```

- c. Verify if the version displayed is 2.4.13 on executing this command:

```
<Lift_Utility unzipped folder>/lnx_python/bin/oci -v
```

Output displayed after executing the command is: 2.4.13

- d. Install YAML with this command:

```
pip install pyyaml
```

- e. Install XMLTODICT with this command:

```
pip install xmldict
```

For APP Lift

APP Lift means lifting of the middle tier or application instance (this is essentially the instance where the PeopleSoft Application Server or Process Scheduler is hosted) is running.

1. Lift can be performed on the APP instance itself (Local Lift) or remotely from another instance that has access to the APP instance (Remote Lift).

Note: Local Lift is recommended.

2. If Lift is performed remotely, the connection from the remote Linux instance to the APP instance can be established using an SSH key (recommended) or password.

Note: If a password is used, please ensure that the **expect** utility (version 5.43.0) is available on the Linux instance (where the Lift utility will be run) under the location “/usr/bin/expect”. You can choose to install the same using any package manager, for example, `yum install expect expectk`.

3. Be sure to use only the PeopleSoft Admin Owner user (for example, psadm3) to perform APP Lift.

4. Be sure to have sufficient free disk space for APP Lift (based on PS_APP_HOME and PS_CUST_HOME size). A minimum disk space of 10GB is required.
5. Make sure that the user running the Lift utility has the permission to create files or directories at the user's home directory, Lift utility directories, and the destination directory where the DPKs are saved, “/tmp” and PS_APP_HOME PS_CUST_HOME directories.

For DB Lift

DB Lift means lifting of the Database Tier instance. This is the instance where the PeopleSoft Oracle Database is running.

Note: It is recommended to bring the database patch level of the on-premise environment equivalent to that of the database patch level of the Oracle Database Cloud Service before starting the Lift and Shift process.

If the patch levels are different, then Cloud Manager will try to either rollback or update the patch. It is possible that there could be some incompatibilities during lift and shift due to rollbacks or updates. Users will then need to manually verify and rectify it.

1. Lift can be performed on the DB instance (Local Lift) itself or remotely from another instance that has access to the DB instance (Remote Lift).

Note: Local Lift is recommended.

2. If Lift is performed remotely, the connection from the remote Linux instance to the DB instance can be established using SSH Key (recommended) or Password.

Note: In case of using the Password, please ensure the “expect” utility (version 5.43.0) is available on the (APP/DB) Linux instance under the location “/usr/bin/expect”. You can choose to install the same using any package manager (for example, “yum install expect expectk”).

3. Ensure to use only the Database Owner user (for example, Oracle) to perform DB Lift.
4. Ensure to have sufficient free disk space for DB Lift based on DB size.
5. The supported Oracle versions are "11.2.0.3.0", "11.2.0.4.0", "12.1.0.1.0", and “12.1.0.2.0”.

Note: Oracle 12c (Container DB) is recommended with latest SQL patches installed. Lift of Unicode and Non-Unicode Database is supported.

6. The PeopleSoft Database instance should be on Oracle 12c. If the PeopleSoft environment is on an Oracle 11g environment, you must download the ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip to the DB instance and keep the path of this file handy (as the script will prompt for this file path). The Lift utility will use the ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip package to temporarily upgrade Oracle 11g database to Oracle 12c in order to create a pluggable database for Lift. The upgrade process first deploys Oracle 12c on the same DB server and creates a pluggable database from the Oracle 11g database. After the pluggable database is created the lift utility switches the database back to its original version (Oracle 11g).

The ODS DPK package is located:

- In OCI: /opt/oracle/psft/dpks/ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip

- In OCI-C: /opt/oracle/psft/dpk/ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip

Note: The ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip file can be copied from the Cloud Manager VM. Users can use any scp client to download from Cloud Manager VM.

7. Ensure to take the back up of your Database environment before performing DB Lift. Optionally, it is recommended to use a clone of the environment for the Lift operation if the environment being lifted needs to be available during the process.
8. Ensure to back up the ORACLE_HOME.

Note: During the Lift process, the ORACLE Database is shut down.

9. Ensure that the user running the lift utility has permission to create files/directories at the user's home directory, Lift utility directories. and destination directory where the DPKs are saved, “/tmp”, and ORACLE_HOME directory.

Running the Lift Process for OCI

This topic discusses the one-step Lift automation procedure. The one-step Lift automation enables customers to migrate their PeopleSoft Application (MidTier/Application Tier) server and Database server tiers environments to the Oracle Cloud (OPCOracle Cloud).

Note: Installing OCI-CLI is a prerequisite for the lift utility. See [Lift Prerequisites for OCI and OCI-Classic](#)

To perform the one-step Lift automation procedure:

1. Download the Lift utility from the Lift and Shift page. For this, perform the following:
 - a. Navigate to the Lift and Shift tile.
 - b. Copy the “LIFT_UTILITY.zip” utility to the target machine to perform lift.

Note: If you have updated Cloud Manager with PRP (find PRP name/number), then SSH to Cloud Manager VM and delete the stale zip file from /tmp/LIFT_UTILITY.zip.

2. Navigate to the below folder after extracting the LIFT_UTILITY.zip:

cd <LIFT_UTILITY.ZIP>/setup

3. For Linux, run the **sh psft-osl.sh** command to perform lift.
4. Choose any one of the below options:
 1. Oracle Cloud Infrastructure
 2. Oracle Cloud Infrastructure–Classic
5. Here, choose Oracle Cloud Infrastructure.
6. Select one of the following options when prompted:

1. Local Lift
2. Remote Lift

Note: Remote Lift is not supported for OCI.

The script will perform a basic validation to check whether the lift is being triggered with all the necessary packages needed to perform one step lift.

7. In Local Lift, you have to lift the APP and DB environments separately. Repeat this flow on both APP and DB instances.
 - a. Choose any one of the below options:
 - Create and save DPK in APP/DB environment.
 - Create and upload the DPK to Oracle Storage Cloud.
 - b. If the option to upload the DPK to Oracle Storage Cloud is selected, then the script prompts the user to input the Oracle Cloud account credentials as mentioned below in order to upload the DPK once created:

See [Locating OCI Credentials](#)

- Oracle Cloud Infrastructure Region Name
- Oracle Cloud Infrastructure Tenancy Name
- Oracle Cloud Infrastructure Tenancy ID
- Oracle Cloud Infrastructure User ID
- Private Key Location, indicates the API signing private key that was created during CM configuration and must be copied to the instance where lift utility will be run. This input refers to the full path to the file.
- Passphrase, refers to the passphrase that was used to encrypt the keys.

Note: You need to manually copy the key file or copy the key file contents and save locally in machine where you perform a lift. This is the corresponding Private Key to the Public Key that was set in the API Keys of the user setting.

- Oracle Cloud Infrastructure Fingerprint

Note: Copy the fingerprint from the API Keys setting.

- c. If you want to migrate the PeopleSoft Application instance. Enter “Y” to proceed; else enter “N” to Lift the DB instance or “Q” to quit.

To create the PeopleSoft App Server DPK, you need to provide the database name and destination directory.

Note: If the utility is unable to fetch the data from the environment (for example, `app_type/` `oracle_home`), it will prompt the user to input the same.

- d. If you want to migrate the PeopleSoft DB instance. Enter “Y” to proceed; else enter “N” or “Q” to quit.

To create the PeopleSoft Database DPK, you need to provide the container database name (If the database is an Oracle 12c Container DB, else leave it blank), pluggable database name and destination directory.

Note: If the utility is unable to fetch the data from the environment, it will prompt the user to input the same.

The script verifies the Oracle version (on the machine where the DB is being lifted). If the Oracle version is Oracle 12c (recommended), the script continues. If the Oracle version is Oracle 11g, then the script prompts to ask for the path where the “ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip” file is located. The “ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip” file can be copied from Cloud Manager VM. This zip file is located at /opt/oracle/psft/dpk/ODS-DPK-LNX-12.1.0.2-<YYMMDD>-1of1.zip. Users can use any scp client to download from Cloud Manager VM.

- e. The script will then display the details captured from the user and prompts for the user’s confirmation to proceed. The utility allows the user to modify the above listed inputs, if required.

Image: Local One Step Lift - Details

This example provides the details captured from the user and prompts for the user’s confirmation to proceed.

```
=====
-----PeopleSoft One Step Lift-----
=====
dbsrvr0
  username
    oracle
  app_db_name
    HRxxxxxx
  app_type
    HCM
  sshkey
  oracle_home
    /u01/app/oracle/product/11.2.0.x/db_1
  hostname
    xxx.us.oracle.com
  env_type
    db
  oracle_dpk_loc
    /lift
  db_name
    HRxxxxxx
  dest_dir
    /lift/migration/db_HCM_HRxxxxxx
  cdb_name
  is_db_pdb
    NO
=====
Please verify the above details and confirm: (Y/N)
Enter "Q" to exit: Y
```

- f. The entire execution is logged into psft_session_<session_name>_<session_count>_<PID>.log file, where ‘n’ stands for the number of executions triggered.
- g. The output APP and DB DPK files that get created and uploaded are named in the format shown below:

— For Application DPK: APP-DPK-<platform>-<app_type>-<db_name>-1of3.zip (ex: APP-DPK-LNX-HCM-DBHCM-1of3.zip)

— For Database DPK: APP-DPK-<platform>-<app_type>-<db_name>-2of3.zip (ex: APP-DPK-LNX-HCM-DBHCM-2of3.zip)

Note: The APP-DPK*-3of3.zip will not be created as part of the Lift utility, however the APP-DPK*-3of3.zip DPK will be available from the 8.56 tools dpk when the shift is triggered from Cloud Manager.

The Lifted DPKs created are available in the destination directory. If you choose to create and upload DPK to Oracle Storage Cloud, then the uploaded DPKs are available in the Lift and Shift page of Cloud Manager and on Oracle Storage Cloud as well.

Note: Be sure to run the Local Lift steps on both PeopleSoft APP and DB instance.

Locating OCI Credentials

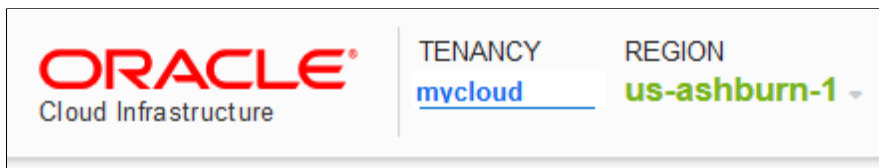
During the Lift operation you will be prompted for OCI details.

Oracle Cloud Infrastructure Tenancy and Region Name

When you log in to OCI, the tenancy and region are displayed.

Image: Tenancy and Region

This example illustrates where the Tenancy and Region names are displayed.

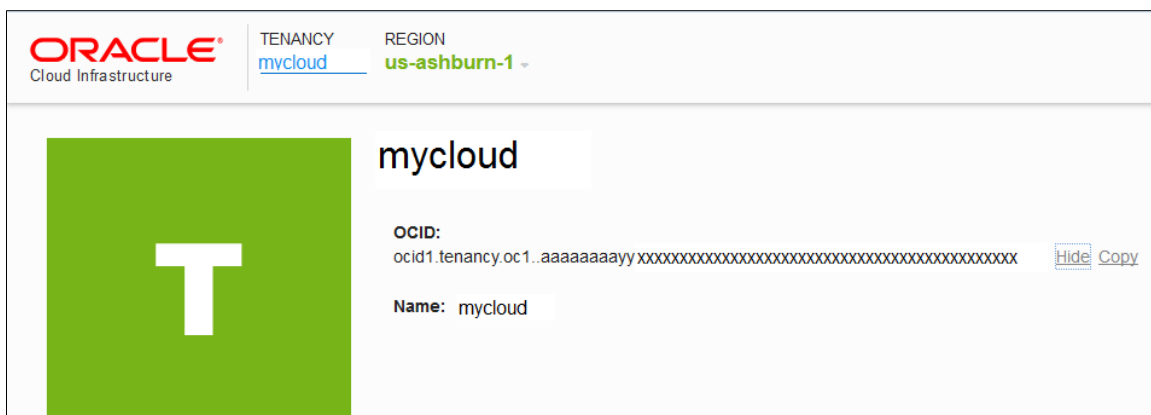


Oracle Cloud Infrastructure Tenancy ID

Click on the Tenancy name on the header to display the tenancy id.

Image: Tenancy ID

This example illustrates the Tenancy ID.



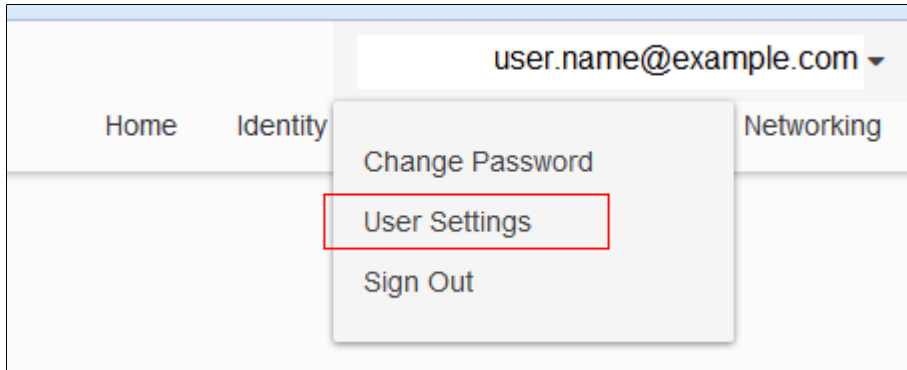
You can use the Copy link to copy the tenancy OCID.

Oracle Cloud Infrastructure User ID

Mouse over on the user name on right top of the OCI console and select **User Setting** link.

Image: User Settings Link

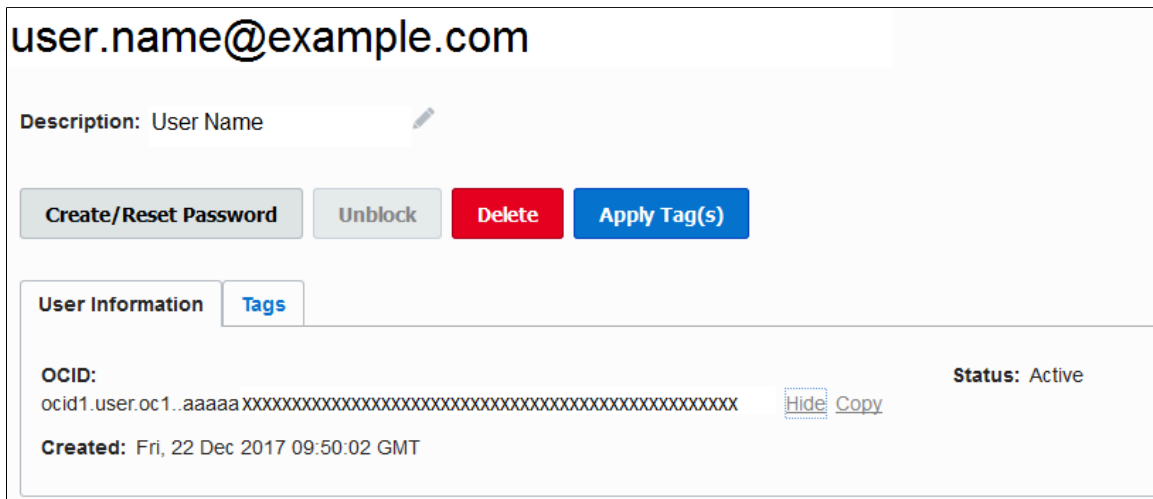
This example illustrates the User Settings Link.



The user

Image: User Information page

This example illustrates the User Information page.



You can use the [Copy](#) link to copy the user OCID.

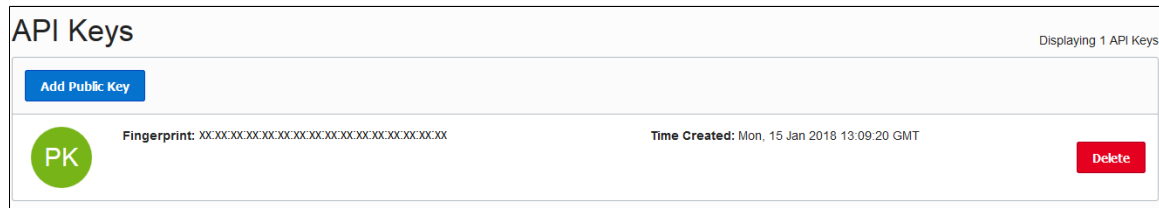
Oracle Cloud Infrastructure Fingerprint

To locate the OCI fingerprint:

1. Click your username in the top-right corner of the Console, and then click User Settings.
2. Select API keys from the menu displayed on the left.

Image: API Keys

This example illustrates the API Keys page, which contains the fingerprint.



Uploading the DPK Manually to Oracle Cloud Infrastructure

During the process to upload the lifted APP/DB DPKs to OCI object store, if you chose to only create and save the DPK in the APP/DB environment. then to upload it to the Oracle Cloud Infrastructure (Object Store), perform the following:

1. Set the following environment variables:
 - a. export PYTHON_HOME=<Lift_Utility unzipped>/lnx_python. For example, export PYTHON_HOME=/tmp/lift_util/lnx_python/lnx_python
 - b. export PYTHONPATH=<Lift_Utility unzipped>/lnx_python. For example, export PYTHONPATH=/tmp/lift_util/lnx_python/lnx_python
 - c. export PATH=\$PATH:<Lift_Utility unzipped>/lnx_python/bin. For example, export PATH=\$PATH:/tmp/lift_util/lnx_python/lnx_python/bin
2. Create an OCI_Config file with the below contents:
 - a. [DEFAULT]
 - b. user=<user ID>
 - c. fingerprint=<Finger print>
 - d. key_file=<private key file location>

Note: You can use the same API Signing Key pair that was created when setting up Cloud Manager, or you can create a new one. If you create a new pair then, you must add the newly created public API key under the user settings using OCI UI.

- e. pass_phrase=<Passphrase for the private key>
- f. tenancy=<tenancy ID>
- g. region=<region name>

For example:

Image: Example of OCI_Config file

Example of OCI_Config file.

```
[DEFAULT]
user=ocidl.user.oc1..xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
fingerprint=f2:b1:01:87:04:fb:7c:1c:06:44:45:b7:59:16:eb:7f
key_file=/tmp/key.pem
pass_phrase=Kt@125G*jsad986#
tenancy=ocidl.tenancy.oc1..aaaaaaayy35pigxxxxxxxxxas3t1t42nxg4idzrsui52gma5a
region=us-ashburn-1
```

3. If you are uploading for the first time, create the file `psft_oci_las` with the following command:

```
<Lift_Utility unzipped>/lnx_python/bin/oci --config-file /tmp/oci_config os bu=
cket create -ns <tenancy name> --name psft_oci_las --compartment-id <Compartment ID>.
```

For example,

```
<Lift_Utility unzipped>/lnx_python/bin/oci --config-file /tmp/oci_config os bu=
cket create -ns mycloud --name psft_oci_las --compartment-id ocidl.compartment=
.oc1..aaaaaaxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

4. Run the following command to upload the APP DPK. Replace the variables in the command with the actual file and path names:

Note: The <Bucket Name> should be `psft_oci_las`. Please do not specify any other bucket name.

```
<Lift_Utility unzipped>/lnx_python/python upload_dpk_to_oci.py -d <Tenant Name>
>-c <Bucket Name> -s <Source folder containing DPK file> -t <Target Folder Name>
e on OCI. Should be Platform/AppType/DBName where AppType stands for applicati=
on type [HCM,FSCM, ELS, ELM, CRM] and DBNAME is the name of the database>-f <I=
NI file location generated during lift operation> -g <Full path of oci config =
file>
```

5. Run the following command to upload the DB DPK. Replace the variables in the command with the actual file and path names:

```
<Lift_Utility unzipped>/lnx_python/python upload_dpk_to_oci.py -d <Tenant Name>
>-c <Bucket Name> -s <Source folder containing DPK file> -t <Target Folder Name>
e on OCI. Should be Platform/AppType/DBName where AppType stands for applicati=
on type [HCM,FSCM, ELS, ELM, CRM] and DBNAME is the name of the database>-f <I=
NI file location generated during lift operation> -g <Full path of oci config =
file>
```

Running the Lift Process for OCI–Classic

This topic discusses the one-step Lift automation procedure. The one-step Lift automation enables customers to migrate their PeopleSoft Application (MidTier/Application Tier) server and Database server tiers environments to the Oracle Cloud (OPCOracle Cloud). To perform the one-step Lift automation procedure:

1. Download the Lift utility from the Lift and Shift page. For this, perform the following:
 - a. Navigate to the Lift and Shift tile.

- b. Copy the “LIFT_UTILITY.zip” utility to the target machine to perform lift.

Note: If you have updated Cloud Manager with PRP (find PRP name/number), then SSH to Cloud Manager VM and delete the stale zip file from /tmp/LIFT_UTILITY.zip.

2. Navigate to the below folder after extracting the “LIFT_UTILITY.zip”:

cd <LIFT_UTILITY>/setup

3. For Linux, run the **sh psft-osl.sh** command to perform lift.

4. Choose any one of the below options:

1. Oracle Cloud Infrastructure
2. Oracle Cloud Infrastructure-Classic

5. Choose Oracle Cloud Infrastructure-Classic.

6. Select one of the following options when prompted:

1. Local Lift
2. Remote Lift

Local Lift refers to running the Lift utility on the (same) node where PeopleSoft environment components (app/web/db servers) are running. Remote Lift refers to running the lift utility from a different node which has APP/DB owner access to PeopleSoft environment components (app/web/db servers).

For details on remote lift see section Performing Remote Lift for OCI-Classic.

Note: Access as “psadm” user for Application Server and “oracle” user for Database Server.

The script will perform a basic validation to check whether the lift is being triggered with all the necessary packages needed to perform one step lift.

The Lifted DPKs created are available in the destination directory. If you choose to create and upload DPK to Oracle Storage Cloud, then the uploaded DPKs are available in the Lift and Shift page of Cloud Manager as well as Oracle Storage Cloud.

Note: Be sure to run the Local Lift steps on both PeopleSoft APP and DB instance.

7. In Local Lift, you have to lift the APP and DB environments separately. Repeat this flow on both APP and DB instances.

- a. Choose any one of the below options:

- Create and save DPK in APP/DB environment
- Create and upload the DPK to Oracle Storage Cloud

- b. If the option to upload the DPK to Oracle Storage Cloud is selected, then the script prompts the user to input the Oracle Cloud account credentials in order to upload the DPK once it is created:

- Oracle Cloud Username
- Oracle Cloud Password
- Oracle Cloud DomainName

Note: If the option to create and save DPK in APP/DB environment was selected, you can upload the DPKs to Oracle Cloud Service using the manual upload process. See [Uploading the DPK Manually to OCI-Classice](#)

- c. If you want to migrate the PeopleSoft Application instance. Enter Y.

To create the PeopleSoft App Server DPK, you need to provide:

- Database name
- Destination directory

Note: If the utility is unable to fetch the data from the environment (for example, `app_type/oracle_home`), it will prompt the user to input the same.

- d. If you want to migrate the PeopleSoft DB instance. Enter Y.

To create the PeopleSoft Database DPK, you need to provide:

- Container Database name if the database is an Oracle 12c Container DB, else leave it blank
- Pluggable database name
- If the database is TDE enabled, you need to enter the "TDE Keystore (Wallet) password" and "TDE Master Key secret password" to proceed. If you are using a non TDE enabled database, then these options are not displayed
- Destination directory

Image: One Step Lift

One Step Lift

```
=====PeopleSoft One Step Lift=====
Do you want to Lift the Database Environment (Y/N): y
Capturing the Database environment(s) details for instance: 1
Enter the Container Database name
(Applicable only for Oracle 12C Multitenant Database): CDBHCM
Enter the Database name *: HR85509A
The CDBHCM DB is active
Please share your Database details for the same
The HR85509A PDB is TDE enabled
To Lift the TDE Database we need the Keystore Wallet information:
Enter the TDE Keystore (Wallet) password *:
Enter the TDE Master Key secret password *:
Oracle version is 12
Destination Directory: Default:[/scratch/lift/data/db_HCM_HR85509A]:
```

Note: If the utility is unable to fetch the data from the environment, it will prompt the user to input the same.

The script verifies the Oracle version (on the machine where the DB is being lifted). If the Oracle version is Oracle 12c (recommended), the script continues. If the Oracle version is Oracle 11g, then the script prompts to ask for the path where the 'ODS-DPK-LNX-*.zip' file is located. The "ODS-DPK-LNX-*.zip" file can be copied from Cloud Manager VM. This zip file is located at /opt/oracle/psft/dpk/ODS-DPK-LNX-12.1.0.2-160718-1of1.zip. Users can use any scp client to download from Cloud Manager VM.

- e. The script will then display the details captured from the user and prompts for the user's confirmation to proceed. The utility allows the user to modify the above listed inputs, if required.

Image: One Step Lift — Details

One Step Lift — Details

```

=====PeopleSoft One Step Lift=====
=====
dbssvr0
  username      oracle
  app_db_name    TDHR8562
  oracle_dpk_loc
  db_name        TDHR8562
  tde_enabled    YES
  is_db_pdb      YES
  app_type       HCM
  sshkey
  oracle_home    /u01/app/oracle/product/12.1.0/dbhome_1
  hostname       tdeuhr856-lnxdb-2
  env_type       db
  dest_dir       /u01/osl/data/db_HCM_TDHR8562
  cdb_name        CDBHCM
Please verify the above details and confirm: (Y/N)
Enter "Q" to exit: y

```

- f. The Lift process generates the ini file.

Performing Remote Lift for OCI-Classic

To perform Remote Lift:

Note: In Remote Lift you can lift either the APP or DB, or Both (APP and DB) environments in parallel. When performing Remote Lift and connecting to the remote machine with a password. Please ensure not to have special characters such as `*? [] ' " \ # ; & () | ^ < >` new-line space and tab in the password. Ensure to set the default python version to Python2.7.9 on the APP/DB instance.

1. You need to choose any one of the below options:
 - Create DPK in APP/DB environment.
 - Create and upload the DPK (APP/DB environment) to Object Storage Cloud.
2. If the option to upload the DPK to Oracle Storage Cloud is selected then the script prompts the user to input Oracle Cloud account credentials as shown below in order to upload the DPK once created:
 - Oracle Cloud username
 - Oracle Cloud password
 - Oracle Cloud domain name
3. If you want to migrate the PeopleSoft Application instance. Enter *Y* to proceed. Enter *N* to Lift the DB instance.

Enter the following to establish a connection to the Application instance:

- Host name
- User name
- SSH key (recommended) or password.

To create the PeopleSoft App Server DPK, you need to provide:

- Database name
- Destination directory

Note: If the utility is unable to fetch the data from the environment (for example, `app_type/` `oracle_home`), it will prompt the user to input the same.

4. If you want to migrate the PeopleSoft DB instance. Enter *Y* to proceed

To create the PeopleSoft Database DPK, you need to provide:

- Container database name (If the database is an Oracle 12c Container DB, else leave it blank).
- Pluggable database name.
- Destination directory.

Note: If the utility is unable to fetch the data from the environment, it will probe the user to input the same.

5. The script verifies the Oracle version (on the machine where the DB is being lifted). If the Oracle version is Oracle 12c (recommended), the script continues. If the Oracle version is Oracle 11g, then the script prompts to ask for the path where the 'ODS-DPK-LNX-*.zip' file is located.

Note: The “ODS-DPK-LNX-*.zip” file can be copied from Cloud Manager VM. This zip file is located at /opt/oracle/psft/dpk/ODS-DPK-LNX-12.1.0.2-160718-1of1.zip. Users can use any scp client to download from Cloud Manager VM.

6. The script will then display the details captured from the user and prompts for the user’s confirmation to proceed, (the script allows the user to modify the above listed inputs, if required).
7. The entire remote execution is logged into psft_session_<session_name>_<session_count>_<PID>.log file, where n stands for the number of remote executions triggered.
8. The output APP and DB DPK files that get created and uploaded will be named in the format shown below:

For Application DPK: APP-DPK-<platform>-<app_type>-<db_name>-1of2.zip (ex: APP-DPK-LNX-HCM-DBHCM-1of2.zip)

For Database DPK: APP-DPK-<platform>-<app_type>-<db_name>-2of2.zip (ex: APP-DPK-LNX-HCM-DBHCM-2of2.zip)

The Lifted DPKs created are available in the destination directory. If you selected the option to create and upload DPKs, then the uploaded DPKs are available in the Lift and Shift page of Cloud Manager as well as Oracle Storage Cloud.

Uploading the DPK Manually to OCI-Classic

If you selected to upload the DPKs later, then perform the following steps to upload the Lifted DPKs to Oracle Storage Cloud and make it available in Cloud Manager:

1. Navigate to the <LIFT_UTILITY> and change directory to <LIFT_UTILITY>/migration/las
2. Run the below two utilities sequentially for both APP and DB DPKs.

Note: Run the script as “psadm” user for Application Server and “oracle” user for Database Server

- a. Invoke the **upload_opc_silent_install.py** to upload the DPK created from the above step onto the container in Oracle Storage Cloud.

```
<python2.7.9> upload_opc_silent_install.py -u <user> -d <domain> -c psft_→
las -s <source_dir> -t <target_dir> -p <password> -e <Storage_REST_Endpoi→
nt> -a <Storage_Auth_REST_Endpoint>
```

- b. Invoke the **psft_dpk_cm.py** to capture and upload the Metadata information of the created DPK in the Oracle Storage Cloud.

```
<python2.7.9> python psft_dpk_cm.py -u <user> -d <domain> -c psft_las -s →
<source_dir> -f <dpk_ini_file> -p <password> -e <Storage_REST_Endpoint> -→
a <Storage_Auth_REST_Endpoint>
```

-u <user>

Oracle Cloud username

-d <domain>	Oracle Cloud Identity Domain
-s <source_dir>	The destination directory where the DPK is saved. Ensure to have only the DPKs are inside the destination directory.
-t <target_dir>	linux/<app_type>/<app_db_name> where app_type stands for application type - [HCM, FSCM, ELS, ELM, CRM] and app_db_name is the name of the database.
-c psft_las	The Oracle Storage Cloud container name. You are not allowed to edit the name.
-f <dpk_ini_file>	An ini file is created capturing the necessary information to create the DPK. This file is available under <LIFT_UTILITY>/migration/las/ on the environment being lifted.
-p <password>	Oracle Cloud password.
-e <Storage_REST_Endpoint>	The OCI-Classic storage rest endpoint URL.
-a <Storage_Auth_REST_Endpoint>	The OCI-Classic storage authentication rest endpoint URL.

Performing Local Lift Silently (CLI Mode)

If you would like to perform lift without using the Lift UI, you can pass parameters in the command line as arguments to select/enable those options instead of entering them in Lift UI.

Before you can run the local lift silently, you need to either perform a Local Lift using the Lift UI or create the <cloud>/instance/data/psftinfra.yaml file.

This table lists the usage parameters for Local Lift:

Parameters	Description
psft-osl.sh -h	Displays the available usage parameters
psft-osl.sh -l	Invokes local lift.
psft-osl.sh -u	Disables upload of the DPK to Oracle Storage cloud and the DPK will be present in the destination directory.
psft-osl.sh -e <env_type>	Enables local lift to be performed based on env_type. Env_type is either: app – Application Lift db – Database Lift

Parameters	Description
<code>psft-osl.sh -s</code>	Enable local lift to confirm Lift details captured in <code><cloud>/instance/data/psftinfra.yaml</code> file. and continue performing lift without prompting user to provide their confirmation to proceed.

Examples

`psft-osl.sh -l -u -e app`

Initiates a local lift for application environment and the script will prompt only to capture the Lift Data

`psft-osl.sh -l -u -s -e app`

Initiate a local lift for application environment in silent mode. It will not prompt for any inputs from the user.

Note: The `psinfra.yaml` file needs to be available under the `<cloud>/instance/data` folder)

Using the Shift Process to Provision the Migrated Environment from the Oracle Cloud

Use the Shift process to deploy packaged environment in Oracle Cloud.

Prerequisites

- The Lift and Shift topology must be modified with the required size and disk capacity of the database and middle-tier nodes. If shifting to DBaaS, then modify the Lift and Shift - DBaaS topology.

Note: The disk space of the database node must be configured based on the size of the lifted database. The recommended disk space on the database node is at least 2.5 times the lifted database size.

- During the Shift process, Cloud Manager can update the PeopleTools version of the lifted environment. To update the PeopleTools version during shift, be sure to have the required PeopleTools DPK already downloaded and available in the repository.
- The Shift process makes use of the latest PI for the application type. For example, if your lifted environment is an HCM environment, then make sure you have the latest HCM PI downloaded in your repository.
- Before shifting, the Lift and Shift related topologies must be edited to add VM shape and save it. Only after this user can trigger a shift.
- The DB Admin password and the Wallet password are the same and if the customer wishes to change the Wallet password they would need to do that manually.
- The database operator Ids used during the Shift operation should have specific permissions to perform various actions. The permissions are listed below:
- For ACM (Automated Configuration Manager)— ACM administrator

- For IB (Integration Broker)— Integration administrator
- For ES (Elastic Search)— Search Administrator, Search Server, Search Developer
- For Process Scheduler — PeopleSoft Administrator, ProcessSchedulerAdmin, ReportDistAdmin
- For Portal — PeopleTools, Portal Administrator

Pages Used to Provision the Migrated Environment from the Oracle Cloud

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
Lift and Shift — Create Environment Wizard	ECL_LAS_GENERAL_FL	Use the Lift and Shift – Create Environment wizard to perform shift operation by means of a guided process.
Lift and Shift – Advanced Options Page	ECL_LAS_ADV_FL	Use Lift and Shift – Advanced Options page for defining target database details.
Lift and Shift – Custom Attributes Page for OCI–Classic	ECL_LAS_CUSTATR_FL	Use Lift and Shift – Custom Attributes page for defining the custom attributes as per the lifted environment.
Lift and Shift – Review and Submit Page	ECL_LAS_REVIE_FL	Use Lift and Shift – Review and Submit page to review and submit the entered environment details.

Lift and Shift — Create Environment Wizard

Use the Lift and Shift – Create Environment wizard (ECL_LAS_GENERAL_FL) to perform the Shift operation by means of a guided process. The Shift operation facilitates provisioning a new environment using lifted DPKs.

In Lift and Shift provisioning, you can:

- Select the desired topology based on DB on Oracle Cloud (Compute or DBaaS).
- Modify the sizing and disk space.

Note: Before doing the Shift provisioning (create an environment using a lifted DPK), you must verify the Lift and Shift topology; be sure to select the right topology based on the choice of database to be created on Compute or on DBaaS. Along with that you also need to verify the sizing and disk space based upon the lifted DPK size and desired environment, a minimum allocation should be provided. For database node, you need to provide a size that is equivalent to 2.5 times of the actual lifted DPK size (not zipped).

Note: Shift needs the DB type set to DEMO in the Lift and Shift template, else it causes shift failure. By default the Lift and Shift template has DEMO as the DB Type and the value can be changed to SYS. You should not modify this value while editing the Lift and Shift template. This field does not appear in the lift and shift provision pages.

Navigation

Click the Related Action button corresponding to the lifted application. Select Create Environment option. By default, the Lift and Shift - General Details page is displayed.

Image: (Tablet) Lift and Shift - General Details Page

This example illustrates the fields and controls on the Lift and Shift - General Details page for the tablet.

Environment Name	Enter the name of the environment which you want to create.
	Note: Length of environment name and identity domain name should not exceed 25 characters.
Description	Enter a meaningful description for the environment.
Template Name	Displays the default template to be attached with the environment.
Zone	Select the zone on which the environment is created.

Lift and Shift – Advanced Options Page

Use the Lift and Shift – Advanced Options page (ECL_LAS_ADV_FL) for defining target database details.

Navigation

Click step 2 or Advanced Options at the top of the Lift and Shift guided process.

Image: (Tablet) Lift and Shift – Advanced Options Page

This example illustrates the fields and controls on the Lift and Shift – Advanced Options page for the tablet.

The screenshot shows the 'Lift and Shift' application interface. At the top, there's a navigation bar with 'Exit', 'Lift and Shift', a notification icon with '14', and buttons for '< Previous' and 'Next >'. Below this is a progress bar with four steps: 1. General, 2. Advanced Options (highlighted with a green circle), 3. Custom Attributes, and 4. Review and Submit. The main content area is titled 'Advanced Options' and contains three fields: 'Source Database' with the value 'PSPDB', 'Target Database On' with a dropdown menu showing 'Compute', and 'Target People Tools Version' with a dropdown menu showing 'PeopleTools 8.55.13'.

Select the target database and PeopleTools version to be applied on the environment.

Lift and Shift – Custom Attributes Page for OCI–Classic

Use Lift and Shift – Custom Attributes page (ECL_LAS_CUSTATR_FL) for defining the custom attributes as per the lifted environment.

Navigation

Click step 3 or Custom Attributes at the top of the Lift and Shift guided process.

Image: (Tablet) Lift and Shift – Custom Attributes Page for OCI — Classic (1 of 3)

This example illustrates the fields and controls on the Lift and Shift – Custom Attributes page for the tablet.

The screenshot shows the 'Lift and Shift' application interface. At the top, there's a navigation bar with 'Exit', 'Lift and Shift', a notification icon with '11', and buttons for '< Previous' and 'Next >'. Below this is a progress bar with four steps: 1. General, 2. Advanced Options, 3. Custom Attributes (highlighted with a green circle), and 4. Review and Submit. The main content area is titled 'Environment Attributes' and includes a section for 'Middle Tier' with a sub-section for 'Credentials'. This section contains a table with 5 rows, each with a 'Name' and a 'Value' field. The rows are: 1. Weblogic Administrator Username (system), 2. Weblogic Administrator Password, 3. Gateway Administrator Username (administrator), 4. Gateway Administrator Password, and 5. Web Profile Password for user PTWEBSERVER. Below the table are links for 'General Settings', 'Domain Settings', and 'Advanced'.

Name	Value
1 Weblogic Administrator Username	system
2 Weblogic Administrator Password	
3 Gateway Administrator Username	administrator
4 Gateway Administrator Password	
5 Web Profile Password for user PTWEBSERVER	

Image: (Tablet) Lift and Shift – Custom Attributes Page for OCI–Classic (2 of 3)

This example illustrates the fields and controls on the Lift and Shift – Custom Attributes page for the tablet.

The screenshot shows the 'Lift and Shift' interface with four tabs: General, Advanced Options, Custom Attributes (selected), and Review and Submit. Under the 'Database Tier' section, there is a 'Credentials' table with 7 rows. The table has two columns: 'Name' and 'Value'. Each row has a corresponding input field and a help icon (?) on the right.

	Name	Value	
1	Database Administrator Password	<input type="text"/>	?
2	Database Operator Id	PS	?
3	Database Operator Password	<input type="text"/>	?
4	Database Connect Id	people	?
5	Database Connect Password	<input type="text"/>	?
6	Database Access Id	SYSADM	?
7	Database Access Password	<input type="text"/>	?

Image: (Tablet) Lift and Shift – Custom Attributes Page for OCI–Classic (3 of 3)

This example illustrates the fields and controls on the Lift and Shift – Custom Attributes page for the tablet.

The screenshot shows the 'Lift and Shift' interface with the 'PeopleSoft Client' section selected. Under the 'Credentials' table, there is 1 row. The table has two columns: 'Name' and 'Value'. Each row has a corresponding input field and a help icon (?) on the right.

	Name	Value	
1	Windows Administrator Password	<input type="text"/>	?

Note: For details on custom attributes, see Environment Attributes Details section in [Environment Attributes Details for OCI–Classic](#)

Enter the custom attributes as per the lifted on-premise environment. It is recommended that the custom attribute values entered on this page match the on-premise configuration. For example, the Character Set and National Character Set attributes must be configured with values same as the on-premise database configuration.

Image: Character set section

This example illustrates the DBaaS character set field.

The screenshot shows a single row in a table with the index '5' and the label 'DBaaS Charset'. The corresponding input field contains the value 'AL32UTF8'.

5	DBaaS Charset	AL32UTF8
---	---------------	----------

Note: The database character sets to be used for the Shift operation are AL32UTF8 and National Character Set AL16UTF16. Possible values of National Character Set when character set is AL32UTF8 are AL16UTF16 and UTF8. There can be multiple possible values of character set such as UTF8 WE8ISO8859P15. If shifting to DBaaS, you need to modify the character sets based on the database selected.

If the customer is using the Cloud Manager UI to initiate a DBCS Shift; the “DBaaS Charset” and “DBaaS National Charset” configuration (under Database Tier section) should match with the “Charset” and “National Charset” of the Database environment where the DB Lift operation is performed.

If there is any mismatch in the Charset data, the DBCS shift will fail.

To find the Charset and National Charset information from the lifted environment, run the below SQL commands on the DB (lifted) environment.

```
select VALUE from nls_database_parameters where parameter='NLS_CHARACTERSET';
select VALUE from nls_database_parameters where parameter='NLS_NCHAR_CHARACTERSET';
```

Output:

```
SQL> SELECT value$ FROM sys.props$ WHERE name = 'NLS_CHARACTERSET' ;
```

```
VALUE$
```

```
AL32UTF8
```

```
SQL> SELECT value$ FROM sys.props$ WHERE name = 'NLS_NCHAR_CHARACTERSET';
```

```
VALUE$
```

```
UTF8
```

Lift and Shift — Custom Attributes Page for OCI

Use Lift and Shift – Custom Attributes page for defining the custom attributes as per the lifted environment. All the custom attributes are similar to OCI–Classic, except the region and availability domain and subnet settings.

Image: Lift and Shift - Custom Attributes page for OCI (1 of 3)

Lift and Shift - Custom Attributes page for OCI (1 of 3)

Name	Value
1 Weblogic Administrator Username	system
2 Weblogic Administrator Password	
3 Web Profile Password for user PTWEBSEVER	
4 Gateway Administrator Username	administrator
5 Gateway Administrator Password	

Image: Lift and Shift - Custom Attributes page for OCI (2 of 3)

Lift and Shift - Custom Attributes page for OCI (2 of 3)

▼ Database Tier

▼ Credentials 7 rows

	Name	Value	
1	Database Operator Id	PS	?
2	Database Operator Password		?
3	Database Connect Id	people	?
4	Database Connect Password		?
5	Database Access Id	SYSADM	?
6	Database Access Password		?
7	Database Administrator Password		?

► General Settings

► Subnet Settings

Image: Lift and Shift - Custom Attributes page for OCI (3 of 3)

Lift and Shift - Custom Attributes page for OCI (3 of 3)

▼ PeopleSoft Client

▼ Credentials 1 row

	Name	Value	
1	Windows Administrator Password		?

► Subnet Settings

For details on custom attributes, see Environment Attributes Details for OCI section in Managing Environments.

Lift and Shift – Review and Submit Page

Use the Lift and Shift – Review and Submit page (ECL_LAS_CUSTATR_FL) to review and submit the entered environment details.

Navigation

Click step 4 or Review and Submit at the top of the Lift and Shift guided process.

Image: (Tablet) Lift and Shift – Review and Submit Page

This example illustrates the fields and controls on the Lift and Shift – Review and Submit page for the tablet.

Exit

Lift and Shift

Previous

Submit

1

2

3

4

General

Advanced Options

Custom Attributes

Review and Submit

New Environment Information

Environment Name

Environment Description

Zone

Advanced Options

Source Database PSPDB

Target Database On Compute

Target People Tools Version

Environment Attributes

Middle Tier

Credentials

5 rows

	Name	Value
1	Weblogic Administrator Username	system
2	Weblogic Administrator Password	

- Weblogic Administrator Username

User id for administering the PIA Web Logic server
- HTTP PIA Port

The WebLogic http port number for PIA.
- HTTPS PIA Port

The WebLogic https (ssl) port number for PIA.
- WLS Port

The Workstation Listener port in the application server.
- Jolt Port

Port number for Jolt listener on the app server.
- Database is RAC

Whether Real Application Cluster is enabled or not.
- Customization YAML

Optional YAML data for advanced customization.
- Database Connect Id

Connect Id for the database.

Click the Submit button to initiate the creation of a lifted environment in Oracle Cloud based on the details provided.

Once the environment is ready, you are able to view it under the Environments tile. For details, see [Environments Tile](#).

Migrating TDE Encrypted Database to Oracle Cloud Infrastructure – Classic using PeopleSoft Cloud Manager

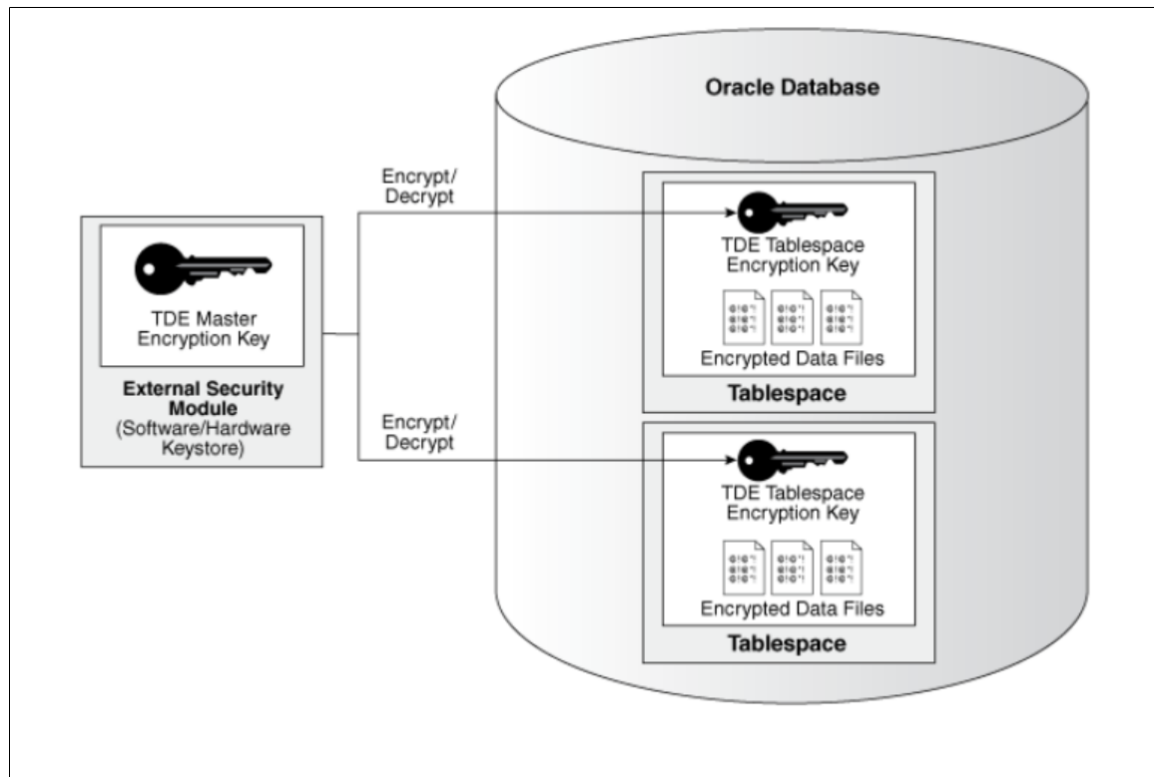
Transparent Data Encryption (TDE) enables customers to encrypt sensitive data, such as Personally Identifiable Information (PII), that are stored in tables and tablespaces.

After the data is encrypted, this data is transparently decrypted for authorized users or applications when they access this data. TDE helps protect data stored on media (also called data at rest) in the event that the storage media or data file is stolen.

Image: Transparent Data Encryption for Cloud Manager

This is a graphical representation of the Transparent Data Encryption for Cloud Manager.

Note: This flow diagram is specific to CM and is generic for TDE.



Pre-requirements

Below requirements must be satisfied to successfully migrate a TDE enabled database.

- Database being migrated must have TDE enabled and required tablespaces already encrypted.
- Minimum PeopleTools version on the on-premise environment must be 8.55.12. Environments with PeopleTools 8.56 is not supported.
- Minimum PeopleTools version on the Shifted environment must be 8.55.17.
- Database must be on Oracle 12c (12.1) container.
- Must be a Unicode, non-RAC and non-ASM database.
- Must have subscription to DBCS in Oracle Cloud Infrastructure Classic. Migration of TDE encrypted database is supported only to DBCS. Migration to Compute instance is not supported.
- Remote lift not supported on TDE..

Lifting TDE Encrypted Database

After the lift process is completed, DPKs are created and the TDE Encryption Keys are exported to a file. This exported file must be securely stored and later provided as input when deploying the lifted DPKs.

1. Download the latest lift utility.
2. Copy and extract the utility on the on-premise environment.
3. Run the lift utility to package database and middle-tier environment into DPKs. The Lift utility when triggered on a TDE Enabled Database prompts for TDE Keystore (Wallet) Password and a TDE Masterkey secret password.

See [Running the Lift Process for OCI–Classic](#) for details on running the lift utility.

4. Lift utility uploads the DPKs to Oracle Cloud Infrastructure Object Storage Classic.

See [Running the Lift Process for OCI–Classic Step 4](#).

DPKs can also be uploaded to Object Storage Classic manually, see [Uploading the DPK Manually to OCI–Classic](#)

5. The TDE encryption key is exported to a file and will be packaged on the on-premise system in a zip file under /<LIFT_UTILITY_PATH>/data/masterkey.zip. The zip file contains the keyfile.txt and tdmasterkey.p12 files. The lift log file will have the path to the zip file as shown below example. This zip file must be backed up and produced when shifting.

Image: Lift Log File

Lift Log File

```
2018-01-02T04:36:19EST apputils.py INFO : Master Key zip created successfully
2018-01-02T04:36:19EST apputils.py INFO :
*****
2018-01-02T04:36:19EST apputils.py INFO : TDE Key to use during Shift is
packaged within: /mnt/azfs/osl/data/masterkey.zip
2018-01-02T04:36:19EST apputils.py INFO :
*****
```

Shifting TDE Encrypted Database

After the lifted DPKs are uploaded to Oracle Cloud Infrastructure Object Storage, navigate to the Lift and Shift page in Cloud Manager and click the button to ‘List of Object Store items’ to refresh the list. Follow below steps to deploy the lifted DPKs.

1. Securely copy the TDE encryption key export file (masterkey.zip, this is accessible for psadmin2 users) to Cloud Manager instance using your favorite SCP tool.

Note: The length of the path to the zip file must be less than 30 characters.

2. Identify the lifted DPK that must be shifted and initiate shift process by selecting ‘Create Environment’ in the Actions menu.
3. Provide all the New Environment Information and click Next.

- In Advanced Options, 'Target Database On' Option is set to DBaaS. Compute option is not supported when migrating a TDE encrypted database. Select the PeopleTools patch version and click Next.

Image: Lift and Shift - Advanced Options page

Lift and Shift - Advanced Options page

Note: Minimum PeopleTools version on the Shifted environment must be 8.55.17. PeopleTools 8.56 versions are not supported.

- In Custom Attributes page, TDE related inputs are listed under Database as a Service | Credentials. Provide the path to the masterkey.zip file from step 1 above as input to TDE Master Key file Location and the secret password that was used to encrypt it. Provide all other required inputs and click Next.

Image: TDE Specific Fields in Custom Attributes Page

TDE Specific Fields in Custom Attributes Page

8	TDE Enabled	YES
9	TDE Master Key file Location	<input type="text"/>
10	TDE Master Key secret password	<input type="text"/>

- Finally, review all inputs and submit the request to start provisioning the lifted DPKs.

Shifting to RAC on DBaaS

Cloud Manager only supports shift to RAC for DBaaS.

Shifting to RAC in OCI-Classic

In order to shift to RAC in OCI-Classic, follow the procedure for shifting the migrated environment to the Cloud.

See [Using the Shift Process to Provision the Migrated Environment from the Oracle Cloud](#)

Set the following values for RAC.

- On the Lift and Shift – Advanced Options page, select *DBaaS* for Target Database On field.

See [Lift and Shift – Advanced Options Page](#)

- On the Advanced DBaaS Options, select *Yes* for Database is RAC.

Yes indicates that RAC (Oracle Real Application Cluster) is used as the database. The Software Release must support RAC and the Software Edition should be Enterprise Edition - Extreme Performance.

See the Database as a Service section in [Environment Attributes Details for OCI-Classic](#)

Image: Advanced DBaaS Options

This example illustrates the fields and controls on the Advanced DBaaS Options.

▼ **Advanced DBaaS Options**

7 rows

	Name	Value	
1	Service Level	Oracle Database Cloud Service	?
2	Metering Frequency	Monthly	?
3	Software Release	Oracle Database 12c Release 1	?
4	Database is RAC	YES	?
5	Software Edition	Enterprise Edition - Extreme Performanc	?
6	Backup Destination	No Backup	?
7	Backup Container Name	NIL	?

Shifting to RAC in OCI

Before shifting the database to RAC, you must modify the Lift and Shift - DBaaS topology with the required shape, and disk capacity of the database and middle-tier nodes.

Note: The vm shape needs to be supported for RAC (2-node DB system).

See [Add Node Page for OCI](#)

In order to shift to RAC in OCI, follow the procedure for shifting the migrated environment to the Cloud. See [Using the Shift Process to Provision the Migrated Environment from the Oracle Cloud](#)

- On the Lift and Shift – Advanced Options page, select *DBaaS* for Target Database On field.

See [Lift and Shift – Advanced Options Page](#)

- On the DB System Options page, the Node Count must be 2.

The number of nodes in the database system depends on the shape you select. The shape selected in the topology must support 2 nodes.

See [Environment Attributes Details for OCI](#)

Image: DB System Options

This example illustrates the fields and controls on the DB System Options.

DB System Options			7 rows
1	Software Release	Oracle Database 12c Release 1	?
2	Display Name	HR Production DB	?
3	Auto Backup	<input type="radio"/> NO	?
4	License Type	License Included	?
5	Node Count	2	?
6	Software Edition	Enterprise Edition - Extreme Performance	?
7	Cluster Name	hproddb	?

Encrypting Tablespaces Using Transparent Data Encryption

Note: The procedure explained below to encrypt an existing database must be performed on the source environment before lift.

This topic summarizes the procedure to enable Transparent Data Encryption (TDE) Tablespaces Offline Encryption for an Oracle PeopleSoft Applications database. This process is referred to as using the *Fast Offline Conversion* method to convert existing clear data (residing in non TDE encrypted tablespaces) to TDE encrypted tablespaces. In order to use this feature, the PeopleSoft Applications database requires downtime, as the tablespace(s) to be encrypted need to be temporarily offline. As the encryption is transparent to the application, code does not have to be rewritten, and existing SQL statements work as they are. Transparent also means that any authorized database session can read the encrypted data without any problem: the encryption only applies to data-at-rest, i.e. the database datafiles and any backups of them.

This new functionality - introduced in Oracle release 12.2 is enabled by a patch for 12.1.0.2 that can be downloaded from Oracle Support. See My Oracle Support Knowledge Document 2148746.1 for the specific patch number(s) along with instructions on how to access the patch. Once installed, the patch enables offline, in-place TDE conversion of datafiles. This process is the recommended Oracle Maximum Availability Architecture best practice for converting to TDE with minimal downtime and the least complexity.

Prerequisites

- This procedure can be used with Oracle PeopleSoft Applications Database – on Enterprise Edition - Version 12.1.0.2 thru Release 18c (Release 12.1, 12.2, and 18c).
- As noted in Section 1, refer to My Oracle Support Knowledge Document 2148746.1 for the most recent information on the patch required to enable this process, and the procedure to apply it to an Oracle PeopleSoft Applications database.
- Understand TDE implications and restrictions and develop a process for maintaining wallets and keys. Refer to the *Oracle Database Advanced Security Administrator's Guide* (12.1 or 12.2) for further details.
- Ensure the compatible database parameter is set to the appropriate database version, 12.1.0.2 or 12.2.0.2.
- Always take a full backup of your database before starting the procedure.

TDE Offline Datafile Encryption Restrictions

The following restrictions apply to implementing Tablespace Encryption using Fast Offline Conversion:

- It can only be performed for application tablespace datafiles. SYSTEM, SYSAUX, UNDO and TEMP tablespaces cannot be encrypted.
- External Large Objects (BFILEs) cannot be encrypted using TDE tablespace encryption. because these files reside outside the database. PeopleSoft applications do not utilize BFILEs.

Procedure to Perform TDE Tablespace Offline

To perform TDE Tablespace Offline Encryption for an Oracle PeopleSoft Applications database, follow the steps below:

1. Shut down application server processes.
Shut down all Applications server processes and make sure all jobs are completed cleanly before continuing further. Users should be prevented from using the Applications database until the encryption process is completed.
2. Source your Oracle PeopleSoft Applications Database Oracle Home.
3. Create a wallet by specifying the wallet location in the sqlnet.ora file under the \$TNS_ADMIN directory:
 - a. Add the following entry to the sqlnet.ora:

```
ENCRYPTION_WALLET_LOCATION = (SOURCE = (METHOD = FILE) (METHOD_DATA = (DI-
RECTORY = <Oracle Home Location>/admin/TDE/$ORACLE_SID)))
```

- b. Create the corresponding directory manually:

```
$ mkdir -p /$ORACLE_HOME/admin/TDE/$ORACLE_SID
```

- c. Check wallet location and status:

```
$ sqlplus / as sysdba;
SQL>select * from V$encryption_wallet;
```

4. Create a Keystore in the wallet.

```
SQL>ADMINISTER KEY MANAGEMENT CREATE KEYSTORE '/$oracle_home/ADMIN/tde/$oracle⇒
_sid IDENTIFIED BY "<Strong password>";
```

5. Open the Keystore create in step 4. As we are in a multitenant environment, we have to specify CONTAINER=ALL in order to set the keystore in all the PDBs:

```
SQL>ADMINISTER KEY MANAGEMENT SET KEYSTORE OPEN IDENTIFIED BY PASSWORD CONTAIN⇒
ER=ALL;
```

6. Set the master encryption key:

```
SQL>ADMINISTER KEY MANAGEMENT SET KEY IDENTIFIED by "<Strong password>" CONTAIN⇒
ER=ALL;System altered.
```

Note: The password must be enclosed in double quotes as shown.

7. Bounce the database:

```
SQL> shutdown normal;
SQL> exit;
```

8. Startup the database normally, ensuring that the wallet is open:

```
sqlplus "/ as sysdba"
SQL>startup;
SQL>ADMINISTER KEY MANAGEMENT SET KEYSTORE OPEN IDENTIFIED BY "<Strong passwor⇒
d>" CONTAINER=ALL;
```

9. Switch to the PeopleSoft PDB.

```
SQL> ALTER SESSION SET CONTAINER=<PDBNAME>;
```

10. Identify all the temporary and undo tablespaces in the database:

```
SQL>select tablespace_name from dba_tablespaces where contents='TEMPORARY' and⇒
STATUS='ONLINE';
SQL>select tablespace_name from dba_tablespaces where contents='UNDO' and STAT⇒
US='ONLINE';
```

11. While still in the PDB, generate three scripts which will be used perform the TDE offline data conversion.

ALTDATAFILESOFFLINE.SQL

ALTDATAFILESENCRYPT.SQL

ALTDATAFILESONLINE.SQL

- a. Script one takes specific datafiles offline. Create a script file with the following statements and save file as `generatealtdatafilesoffline.sql`.

```
sqlplus "/ as sysdba"
SET LINESIZE 256
SET HEADING OFF;
SET TERM OFF;
SET FEED OFF;
SPOOL ALTDATAFILESOFFLINE.SQL
select 'alter database datafile '''||b.file_name|| ''' offline;'
from dba_tablespaces a, DBA_DATA_FILES b
where a.tablespace_name not in ('SYSTEM','SYSAUX','TEMP','PSTEMP','PSGTT0=
1')and a.tablespace_name=b.tablespace_name
;
Spool off
Exit
If you call the generation script GENERATEALTDATAFILESOFFLINE.SQL using @=>
from SQLPLUS, then you will not have to do any additional editing of the=>
generated script.
SQL>alter session set container=<PDBNAME>
System altered.
SQL>@generatealtdatafilesoffline.sql
Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2=>
.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Test=>
ing options
$
```

- b. Script two offline encrypts datafiles offline. Create a script file with the following statements and save file as `generatealtdatafilesencrypt.sql`.

```
sqlplus "/ as sysdba"
SET LINESIZE 256
SET HEADING OFF;
SET TERM OFF;
SET FEED OFF;
SPOOL altdatafilesencrypt.sql
select 'alter database datafile '''||b.file_name|| ''' ENCRYPT;'
from dba_tablespaces a, DBA_DATA_FILES b
where a.tablespace_name not in ('SYSTEM','SYSAUX','TEMP','PSTEMP','PSGTT0=
1')and a.tablespace_name=b.tablespace_name
;
Spool off
Exit
If you call the generation script GENERATEALTDATAFILESENCRYPT.SQL using @=>
from SQLPLUS, then you will not have to do any additional editing of the=>
generated script.
SQL>alter session set container=<PDBNAME>;
System altered.
SQL>@generatealtdatfilesencrypt.sql
Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2=>
.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Test=>
ing options
$
```

- c. Script three brings datafiles back online. Create a script file with the following statements and save file as `generatealtdatafilesonline.sql`.

```
sqlplus "/ as sysdba"
SET LINESIZE 256
SET HEADING OFF;
SET TERM OFF;
SET FEED OFF;
SPOOL altdatafilesonlineexec.sql
select 'alter database datafile '''||b.file_name|| ''' online;'
```



```

from dba_tablespaces a, DBA_DATA_FILES b
where a.tablespace_name not in ('SYSTEM','SYSAUX','TEMP','PSTEMP','PSGTT0=
1')and a.tablespace_name=b.tablespace_name
;
Spool off
Exit

```

If you call the generation script GENERATEALTDATAFILESONLINE.SQL using @ => from SQLPLUS, then you will not have to do any additional editing of the => generated script.

```

SQL>alter session set container=<PDBNAME>;
System altered.
SQL>@generatealtdatafilesonline.sql
Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2=>
.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Test=>
ing options
$

```

- d. Then get back to root or the CDB level.

```
SQL> ALTER SESSION SET CONTAINER=CDB$ROOT;
```

- e. Close the PDB. We want the state to be in 'MOUNT' mode.

```
SQL> ALTER PLUGGABLE DATABASE <PDBNAME> CLOSE IMMEDIATE;
```

- f. Switch to the PeopleSoft PDB.

```
SQL> ALTER SESSION SET CONTAINER=<PDBNAME>;
```

12. Bring all the specified tablespaces offline by connecting to SQL*Plus as sysdba, and executing the script altdatafilesoffline.sql.

```

$ sqlplus / as sysdba
SQL> @altdatafilesoffline.sql;

```

13. Encrypt your datafiles by running the altdatafilesencrypt.sql offline encryption script from SQL*Plus as sysdba:

```

$ sqlplus / as sysdba
SQL>@altdatafilesencrypt.sql;

```

Note: If you have a large number of datafiles, you can parallelize their encryption by creating sub-scripts and running the sub-scripts from parallel SQL*Plus sessions.

14. Bring all the specified tablespaces online by connecting to SQL*Plus as sysdba, and executing the script altdatafilesonline.sql.

```

$ sqlplus / as sysdba
SQL> @altdatafilesonline.sql;

```

Note: Some tablespaces may take time to show as online. These are probably tablespaces that are encrypted.

Check the status of tablespace encryption by connecting to SQL*Plus / as sysdba and running the query shown:

```

$ sqlplus / as sysdba
SQL>select tablespace_name, encrypted from dba_tablespaces;

```

Note: Unless an auto login keystore is created, every time the database is started up, the wallet will need to be opened as in Step 8 above.

For 12c, to make the wallet auto login, run the following command:

```
$ sqlplus / as sysdba
$ administer key management create AUTO_LOGIN keystore from keystore "<Wallet =>
Path>" identified by "<Wallet Password>"
```

Bounce the database.

Enabling Selective Adoption in Cloud Manager

Enabling Selective Adoption in Cloud Manager

Cloud Manager enables customers to take advantage of Selective Adoption by:

- Quickly creating PUM environments in Oracle Cloud.
- Automating configuration of target databases in PUM source.

Once target databases are configured, standard procedure should be followed to apply updates to target environments. For details on the selective adoption process, refer [Selective Adoption](#).

Creating PUM Environments

Before creating a new PUM source environment, a PeopleSoft administrator needs to:

1. Ensure that the latest required PI is downloaded in the repository.
2. Create a new environment template using the latest downloaded PI and PUM topology.
3. Enable user access to the newly created PUM source environment template.

To create a new PUM source environment using Cloud Manager:

1. Click the Create Environment button on the Environments landing page.
2. Enter the required environment attributes inputs.
3. Select the PUM source environment template to deploy.
4. Click Done.

See [Create Environment Page](#)

Adding Targets to PUM Sources

After the PUM source environment is deployed and is in running state, you can add the target database to the PUM source by performing the following:

1. Click the Environments tile available on the Cloud Manager home page.
2. Click the Related Actions button corresponding to the PUM source environment.
3. Navigate to the Environment Details page.

4. Select the Manage PUM Connections link available on the left panel of Environment Details page. The Manage PUM Connections page is displayed as shown.

Image: Manage PUM Connections page

This example illustrates the fields and controls on the Manage PUM Connections page.

5. Click the Add target button to add any environment of the same application type as the PUM source. This displays a modal window for selecting a target database as shown.

Image: Select Target modal window

This example illustrates the fields and controls on the Select Target modal window.

6. Select a target environment.
7. Click the Add button to add the target database.

Adding the target database takes a few minutes to complete. The target database is configured in Change Assistant and the target database information is uploaded to the PUM source database. The status is displayed as *In Progress* when the job to add target is running. The status is changed to *Completed* if the target is added successfully, and to *Failed* if the job did not run successfully.

Accessing Change Assistant in Windows Client

Change package can be defined, created and applied to target environments using the Change Assistant and the PUM source PIA.

To access Change Assistant, perform the following:

1. Determine the IP address or hostname of the PeopleSoft Client that was deployed as part of the PUM source environment from the Environment Details page.

The IP address and Oracle Cloud name is displayed in PeopleSoft Client section of the Environment Details page.
2. Connect to the Windows Client using remote desktop connection.
3. To apply PRPs to PUM Source environment, you need to copy the downloaded PRPs from the file repository to the Windows Client VM. All downloaded PRPs are accessible to Windows Client VM as a samba share. To access the PRP share on the Windows VM, perform the following:
 - RDP to Windows Client VM
 - Connect to the samba share using `\\<File_Server_IP>\PRP`.
 - Copy the required PRPs to `D:\psft\pum_download` directory on the Windows Client.
 - Use Change Assistant to apply the copied PRPs to the PUM Source environment.
4. Follow the standard selective adoption procedures by:
 - Applying PRPs to PUM Source environment.
 - Defining change package by connecting to the PUM source database.
 - Creating and applying change package.

For details on selective adoption, refer to [Selective Adoption](#).

Updating Cloud Manager

Applying Updates to Cloud Manager

PeopleSoft Cloud Manager instance can be updated in the following ways:

- [Applying Updates to Cloud Manager](#)
- [Applying Updates using Manage Updates](#)

Note: It is recommended to use an updated Windows image with latest updates. To update CM using IH PI 5 image that has PeopleTools 8.56, you must first apply a POC patch (POC bug number: 26584770) to CM 06. Also, to deploy IH PI 5, you will need an updated Windows image.

Applying Updates to Cloud Manager

To apply updates to Cloud Manager Image 6, perform the following:

1. Deploy the IH PUM source.

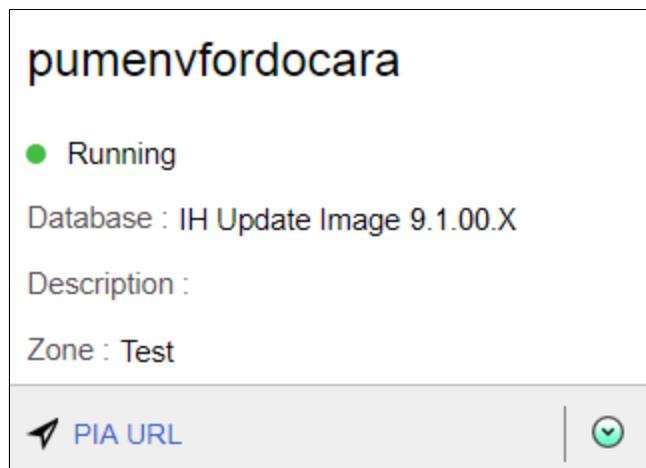
To deploy an IH PI environment using Cloud Manager, perform the following.

- a. Subscribe to the IH and PCM download channels. The PCM 9.1 channel will download IH PI and PRPs, which have Cloud Manager fixes.
- b. Create a template to deploy the PeopleSoft Interaction Hub 9.1 database on a PUM topology.
- c. Deploy a new PUM source using the newly created template.

Note: When creating PUM source environment, provide database admin password with 8-30 chars in length with at least one lowercase letter, one uppercase letter, one number and one special character (__, -, #).

Image: Example Deployed PUM Source

This example illustrates the running PUM source.



Note the Windows Client IP on the Environment Details page in the PeopleSoft Client section.

2. Modify PI Home share permissions on PUM source.

Note: This step is optional if there are no PRPs to apply.

By default, the PI Home share on PUM Source is read-only. You can verify this by accessing the PI Home (\\<PUM SRC IP>\pi_home) on the Windows client (that was deployed using PUM topology) and trying to create a folder in it. Cloud Manager PRPs need to update files on PI HOME, therefore you must modify the share permissions. Modify or add the [pi_home] section in the smb.conf file:

- a. SSH to Cloud Manager.
- b. From Cloud Manager ssh to the PUM source instance (pumenvfordcoara-lnxft-1)

```
[opc@pi6cmdoc ~]$ sudo su - psadm2
[psadm2@pi6cmdoc ~]$ ssh -i /home/psadm2/psft/data/cloud/ocihome/keys/cm_>
adm_pvt_key opc@pumenvfordcoara-lnxft-1
```

- c. Set SMB password for user psadm3.

```
[opc@pumenvfordcoara-lnxft-1~]$ sudo smbpasswd -a psadm3
New SMB password:
Retype new SMB password:
```

- d. Add or update pi_home share on the PUM source. Ensure the following section is changed or added in the smb.conf file as shown here:

```
[opc@pumenvfordcoara-lnxft-1~]$ sudo vi /etc/samba/smb.conf

[pi_home]
    path = /u01/app/oracle/product/pt/ps_pi_home
    writable = yes
    available = yes
    guest ok = no
    valid users = psadm3
```

Note: For OCI, please append the entire section given above in /etc/samba/smb.conf file.

e. Restart samba service

```
[opc@pumenvfordcoara-lnxft-1~]$ sudo service smb restart
Shutting down SMB services: [ OK ]
Starting SMB services: [ OK ]

[opc@pumenvfordcoara-lnxft-1~]$
```

f. Open firewall to allow samba ports on PUM source using below command.

```
[opc@pumenvfordcoara-lnxft-1~]$ sudo iptables -I INPUT -p tcp -m state --st=>
ate NEW -m tcp --dport 137 -s 0.0.0.0/0 -j ACCEPT

[opc@pumenvfordcoara-lnxft-1~]$ sudo iptables -I INPUT -p tcp -m state --st=>
ate NEW -m tcp --dport 138 -s 0.0.0.0/0 -j ACCEPT

[opc@pumenvfordcoara-lnxft-1~]$ sudo iptables -I INPUT -p tcp -m state --st=>
ate NEW -m tcp --dport 139 -s 0.0.0.0/0 -j ACCEPT

[opc@pumenvfordcoara-lnxft-1~]$ sudo iptables -I INPUT -p tcp -m state --st=>
ate NEW -m tcp --dport 445 -s 0.0.0.0/0 -j ACCEPT

[opc@pumenvfordcoara-lnxft-1~]$ sudo service iptables save
```

g. Enable secure linux to allow samba share.

```
[opc@pumenvfordcoara-lnxft-1~]$ sudo chcon -t samba_share_t /u01/app/oracle=>
/product/pt/ps_pi_home
```

3. RDP to the windows client of PUM source.

Windows Client IP can be determined by going into the Environment Details page and looking at PeopleSoft Client section.

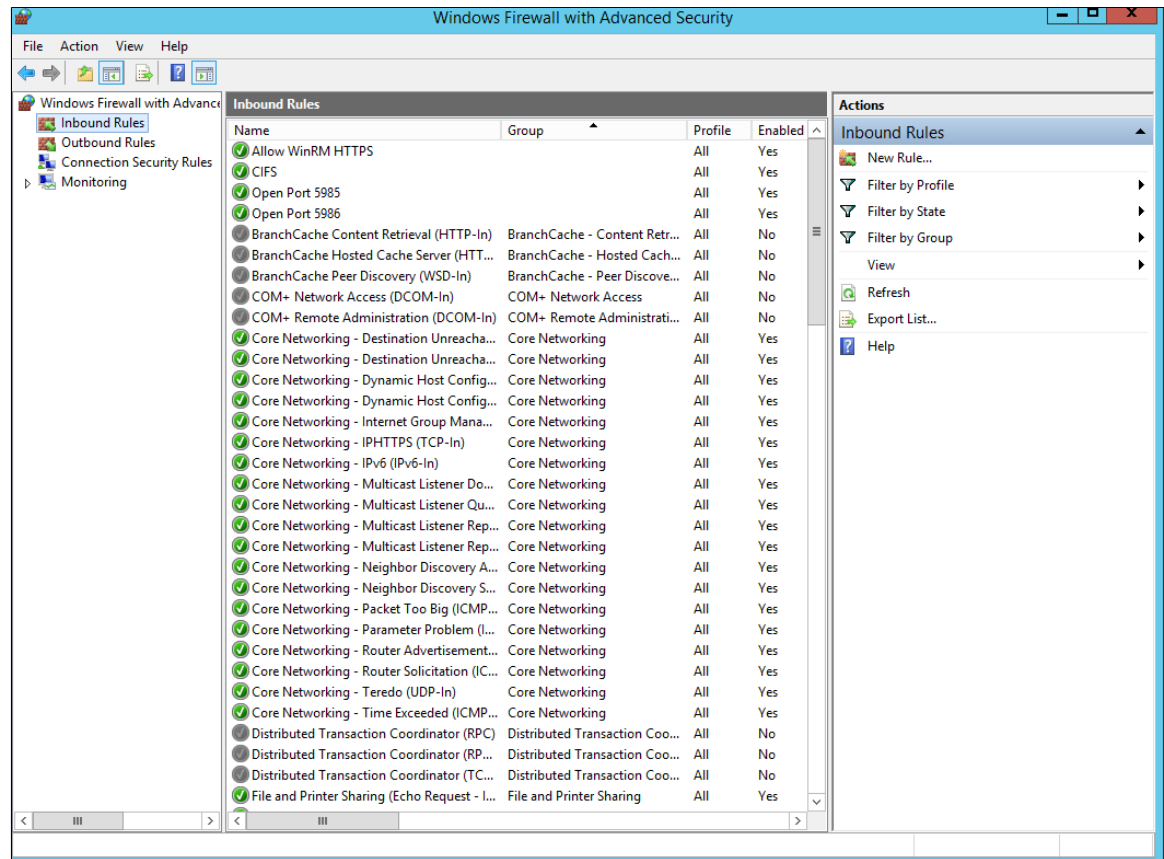
4. Configure Windows firewall (if not already configured)

Add new rule(CIFS) to open ports 137,138,139,445. This is an optional step if its already configured this can be skipped. To manually add the rules:

a. In Windows Client Navigate to Start >Windows Firewall with Advanced Security

Image: Windows Firewall with Advanced Security

This example illustrates the Windows Firewall with Advanced Security window.



- b. Click Inbound Rules > New Rules.
- c. On the Rule Type window, select Port and click Next.

Image: New Inbound Rule Wizard

This example illustrates the New Inbound Rule Wizard window.

The screenshot shows the 'New Inbound Rule Wizard' window with the 'Rule Type' step selected in the left sidebar. The main area asks 'What type of rule would you like to create?' and offers four options: 'Program', 'Port', 'Predefined', and 'Custom'. The 'Port' option is selected with a radio button. Below the 'Predefined' option, a dropdown menu shows 'BranchCache - Content Retrieval (Uses HTTP)'.

- d. On the Protocol and Ports window, select TCP and Specific local ports. Enter ports 137,138,139,445 and Next.

Image: New Inbound Rule Wizard – Protocol and Ports

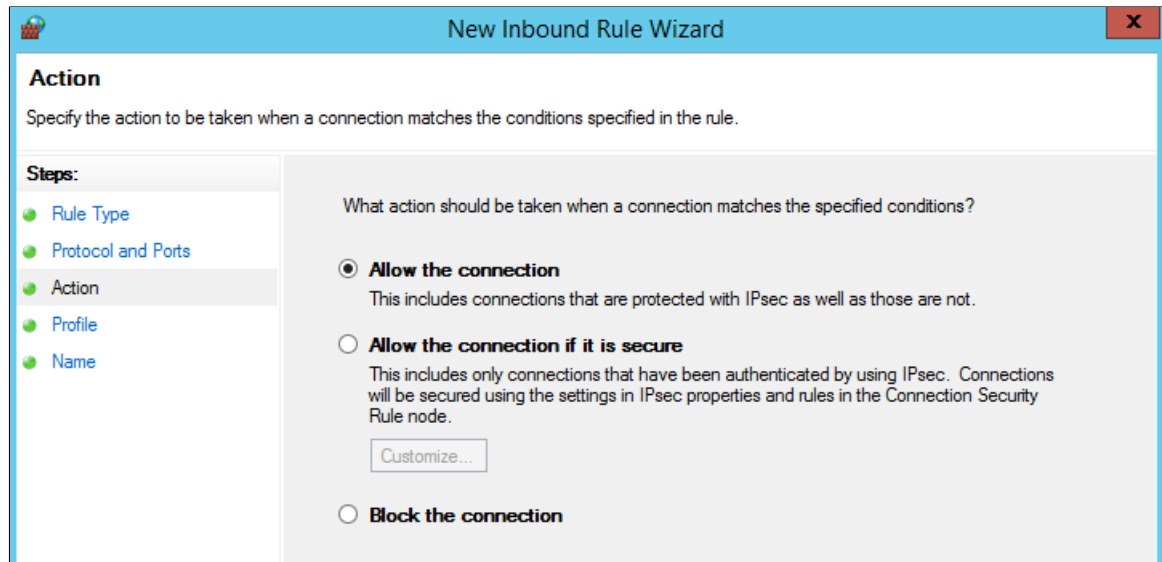
This example illustrates the specific local ports required for Cloud Manager access to Windows client.

The screenshot shows the 'New Inbound Rule Wizard' window with the 'Protocol and Ports' step selected in the left sidebar. The main area asks 'Specify the protocols and ports to which this rule applies.' It has two sections. The first section asks 'Does this rule apply to TCP or UDP?' with 'TCP' selected. The second section asks 'Does this rule apply to all local ports or specific local ports?' with 'Specific local ports' selected. A text box contains the ports '137,138,139,445' and an example '80, 443, 5000-5010' is shown below it.

- e. On the Action window, select Allow the connection and click on Next.

Image: New Inbound Rule Wizard – Action window

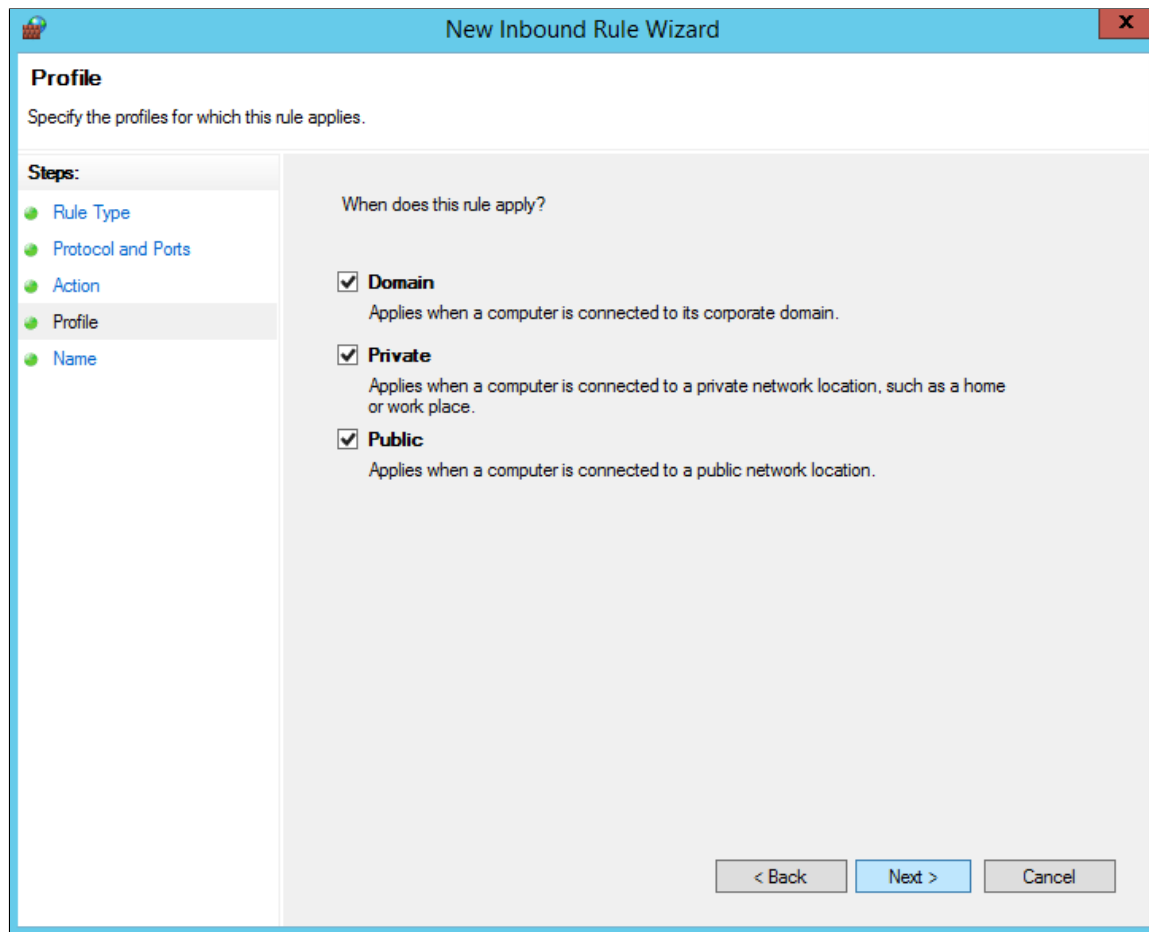
This example illustrates the fields and controls on the New Inbound Rule Wizard – Action window.



- f. On the Profile window, select when the rule applies and click Next.

Image: New Inbound Rule Wizard – Profile window

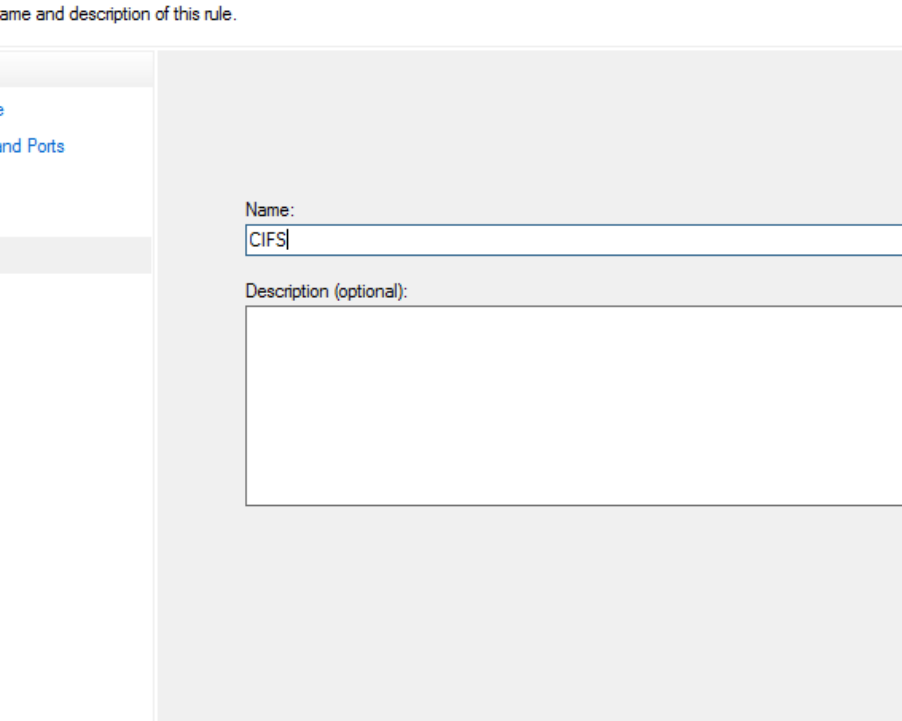
This example illustrates the fields and controls on the New Inbound Rule Wizard – Profile window.



- g. On the Name window, provide the name as *CIFS* and Finish.

Image: New Inbound Rule Wizard – Name window

This example illustrates the fields and controls on the New Inbound Rule Wizard – Name window.



New Inbound Rule Wizard

Name

Specify the name and description of this rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name**

Name:

CIFS

Description (optional):

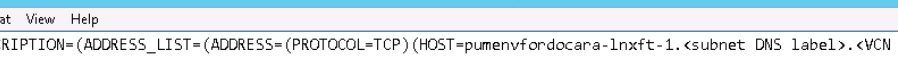
< Back Finish Cancel

5. In Windows Client, provide the tns entry of PUM source and Cloud Manager target database in D:\oracle\product\12.1.0\client_1\network\admin\tnsnames.ora.

In this example DEMODB is the PUM source database and CMPSDB is the target Cloud Manager database.

Image: Example tnsnames.ora file

This example illustrates the `tnsnames.ora` file that contains the source and target databases.



```
tnsnames.ora - Notepad
File Edit Format View Help

PDMODB=(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=pumenvfordocara-linxft-1.<subnet DNS label>.<VCN DNS label>,<VCN DNS label>)(PORT=1521))
CMPSDB =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP)(HOST = pi6cmdoc.<subnet DNS label>.<VCN DNS label>.oraclevcn.com)(PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = CMPSDB)
    )
  )
```

Note: The tnsnames.ora file would include the actual subnet and vcn names.

6. Configure Cloud Manager target and IH PUM source databases manually in Change Assistant.

To configure the source and target databases in Change Assistant:

- a. In Windows Client, launch Change Assistant as administrator.
- b. In Change Assistant select File, New Database.

Image: Define Database

This example illustrates the fields and controls on the Define Database page. You can find definitions for the fields and controls later on this page.

Database Wizard

Task Steps

Define Database

Type: Oracle

Database Name: CMPSDB

User Information

User ID: PS

User Password: **

Access ID: SYSADM

Access Password: *****

Connect ID: people

Connect Password: *****

☐ Set DB Owner Credentials

DBOwner ID:

DBOwner Password:

SQL Client Tool:

Current Homes

PS Home:

PS App Home:

PS Cust Home:

SQR Settings

SQR Executables (SQRBIN) <PS_Home>\bin\sqr<plat>\binw

SQR Flags (PSSQRFLAGS)

PSSQR Path agingDir>sqr;<Cust_Home>sqr;<App_Home>sqr;<PS_Home>sqr

Back

Next

Finish

Cancel

Type	Database type is Oracle.
Database Name	Enter the name of the database.
User ID and Password	Enter the PeopleSoft User ID and password for the database that used during the Cloud Manager bootstrap process.

Access ID and Password	Enter the Access ID and password for the database that used during the Cloud Manager bootstrap process.
ConnectID and Password	Enter the ConnectID and password for the database that used during the Cloud Manager bootstrap process.
SQL Client Tool	Browse for SQL client tool in D:\oracle\product\12.1.0\client_1\bin\sqlplus.exe.
Current Homes PS Home	Enter the location of your current PS_HOME
Current Homes PS App Home	Enter the location of your current PS_APP_HOME
Current Homes PS Cust Home	Enter the location of your current PS_CUST_HOME
SQR Settings SQR Executables (SQRBIN)	The SQRBIN value is read only and derived from the PS Home and platform setting.
SQR Settings SQR Flags (PSSQRFLAGS)	By default, the -ZIF parameter is to set the full path and name of the SQR initialization file, SQR.INI
SQR Settings PSSQR Path	This field is read-only and will contain the path that is used in Change Assistant.

- c. Click Next, to bring up Additional Database Details window.

Image: Additional Database Details window

This example illustrates the fields and controls on the Additional Database Details window.

- d. Review the window and click Next.
- e. On the Confirm Settings page, click Finish.
- f. Repeat steps b thru e to define the PUM source database.

Note: To confirm both databases have been defined in Change Assistant, select File, Open Databases. You will see 2 databases defined.

7. Configure Change Assistant Options for Updates.

To configure Change Assistant Options for Updates:

- Create directories in the Windows client for pum_staging, pum_output and pum_download under D:\psft\.
- In Change Assistant, select Tools, Options.
- On the General tab, enter the directories.

Image: Update Manager Options – General page

This example illustrates the fields and controls on the Update Manager Options – General page. You can find definitions for the fields and controls later on this page.

PS Home

Enter the full path for PeopleTools client installed on the Windows Client machine.

Staging Directory	Enter the staging directory defined in step a.
Output Directory	Enter the output directory defined in step a.
Download Directory	Enter the download directory defined in step a.
SQL Query Tool	Enter the path to sqlplus.exe.

- d. On the PUM Source page, enter the PUM Source information.

Image: Update Manager Options – PUM Source page

This example illustrates the fields and controls on the Update Manager Options – PUM Source page. You can find definitions for the fields and controls later on this page.

Define PUM Source	Select this checkbox to define the PUM Source.
PUM Source Database	Select the PUM source database from the drop down list.
PUM(PI_HOME) Directory	Use the share that was modified in step 2. Access the share path on the windows client and verify access. Use directory path as shown in the address bar of the explorer window.
PUM Source PIA URL	Enter the URL to sign on to the PUM Source.

- e. On the EMHUB page, enter the EMHub information.

Image: Update Manager Options – EM Hub page

This example illustrates the fields and controls on the Update Manager Options – EM Hub page. You can find definitions for the fields and controls later on this page.

Configure EMHub For Deploy File

Select this checkbox if you want to use EMHub for file deploy.

Server Host Name

Enter PUM source server host name.

Server Host Port

Indicates the port in which to connect to the Environment Management hub.

8. Backup Cloud Manager.

Take a Cloud Manager backup before applying any updates. See [Understanding Cloud Manager Backup and Restore](#).

9. Apply PRPs to the IH PUM source.

If there are PRPs to be applied on the PUM source, copy all PRPs to the Windows Client under the D:\psft\pum_download location. PRPs must be copied from the file server share.

To copy the PRPs to the file share:

- a. Identify the private IP address of file server on the Instances tab in the Oracle Compute Cloud Service Console.
- b. Log on to the Windows Client of the environment.
- c. Connect to the samba share using \\<File_Server_IP>\PRP.

User will be prompted for user name and password that was configured in step 2.

Note: In OCI, if the samba share is not accessible on the Windows client vm, check the ingress security rules for the samba share on the subnet where the windows client is connected. In OCI, the Cloud manager subnet must allow incoming connections from the subnet on which the PUM source is set up. This is specific to OCI and does not apply to customers on OCI-Classic.

- d. Copy the required PRPs to D:\psft\pum_download directory on the Windows Client.
- e. In Change Assistant, select Tools, Apply PeopleSoft Release Patchset.
- f. Verify the download location is set to the directory used in step c (D:\psft\pum) and click Next.
- g. Select all PRPs to be applied and click Next.

Note: In some cases, selecting and applying all PRPs together might show errors. In such a case, select one PRP at a time and apply individually.

- h. Change Assistant will verify that the package is compatible with the PI version. If it is not compatible, you will receive a message to Apply Compatible Packages Only.
 - i. Click OK to apply only compatible packages and Change Assistant will verify the PRPs.
 - j. Click Next and you will see the summary page
 - k. Click Finish. The Change Assistant job is created. Run this job as you would any other change package.
10. Start PSEMAgent on target Cloud Manager.

To start PSEMAgent:

- a. Change ownership of PSEMAgent dir from psadm1 to psadm3.

```
[psadm3@c6e65e ~]$ chown -R psadm3:appinst /opt/oracle/psft/pt/ps_home8.56.07/PSEMAgent/
[psadm3@c6e65e ~]$ cd /opt/oracle/psft/pt/ps_home8.56.07/PSEMAgent/
[psadm3@c6e65e PSEMAgent]$ ll
total 44
-rwxr-xr-x 1 psadm3 appinst 2742 Sep 11 2015 StartAgent.sh
-rwxr-xr-x 1 psadm3 appinst 2426 Sep 11 2015 StopAgent.sh
drwxr-xr-x 8 psadm3 appinst 4096 Jan 6 05:11 envmetadata
drwxr-xr-x 2 psadm3 appinst 4096 Sep 23 06:11 lib
```

- b. Configure the agent configuration properties file. The configuration. properties file is located in the ps_home directory/PSEMAgent/envmetadata/config.

This is an example of the configuration.properties file:

```
#hubURL= this is the host and port the agents talk to
hubURL=http://pumenvfordcoara-linxft-1.<subnet DNS label>.<vcn DNS label>.>
oraclevcn.com:8000/PSEMHUB/hub
agentport=5283

#ping interval in milliseconds for the peer to contact the hub for new me=
ssages
pinginterval=10000

#Windows directories need to use the forward slash ('/') character. For m=>
```

```

ultiple directories, use a '|' character as separator
windowsdrivestocrawl=c:\d:
unixdrivestocrawl=/opt/oracle/psft/pt|/home/psadm2/psft/pt/8.56

#The time interval in hours for the hub to issue a recrawl command to the
agents
recrawlinterval=24

#The time interval in hours for the hub to issue a revalidate command to =>
the agents
revalidateinterval=6

#Setting for large file transfer.default is 1024 * 1024 bytes
chunksize=1048576

```

- c. Export PS_APP_HOME before starting agent.

```
$ export PS_APP_HOME=/opt/oracle/psft/pt/ps_app_home.
```

- d. Start PSEMAgent using user psadm3.

```
$ /opt/oracle/psft/pt/ps_home8.56.07/PSEMAgent/StartAgent.sh
```

Optionally run the agent in background by appending & to the above command.

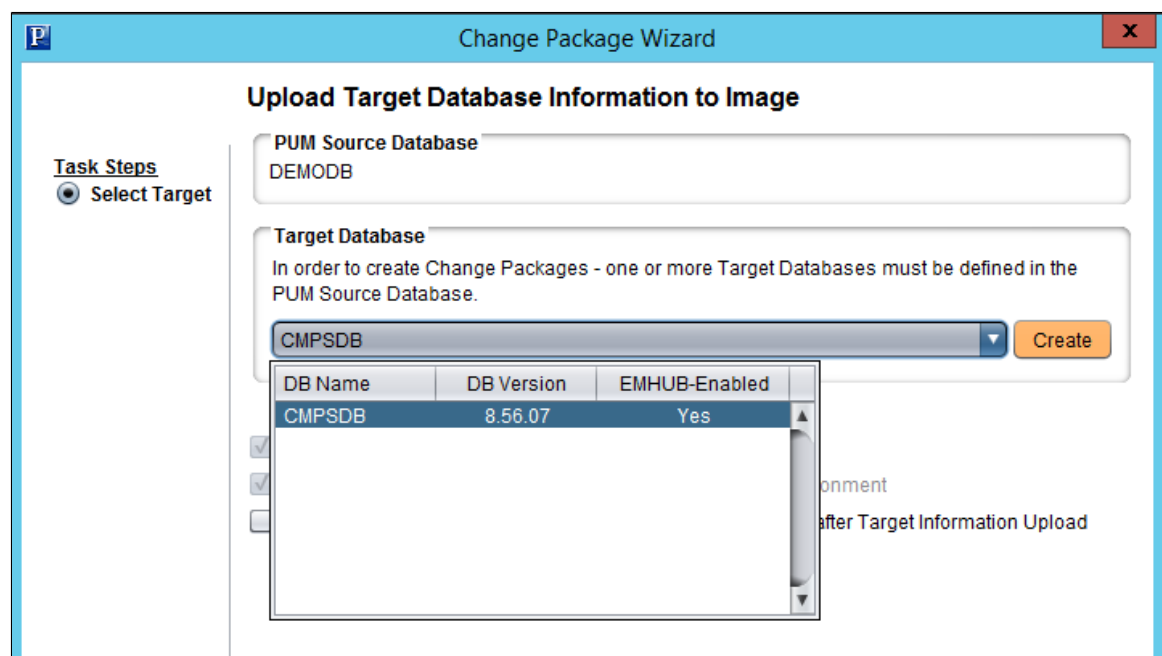
11. Upload target database information to IH PUM source.

To upload target database information:

- In Change Assistant, upload the target database information. Select Tools, Upload Target Database Information to Image.
- Select the target database from the drop-down.

Image: Upload Target Database Information to Image

This example illustrates the fields and controls on the Upload Target Database Information to Image page.



- c. Click Finish.

Target Database information is uploaded.

12. Define change package using IH PUM source PIA.

To define the change package in PIA:

- a. Sign on to IH PUM Source in the browser.
- b. Using the NavBar, select Navigation, PeopleTools, Lifecycle Tools, Update Manager, Update Manager Dashboard.

The Cloud Manager database information that was uploaded in the last step will appear under Select Target Database.

- c. Expand Define Change Package section and select Define Change Package.
- d. On Define Change Package Step 2 of 6, enter a package name and click Next.
- e. On Define Change Package Step 3 of 6, select All Other Search Criteria and click Next.
- f. On Define Change Package Step 4 of 6, select Prod/Severity/Image.
- g. Select Product Family and CM.

Image: Product/Severity/Image Search page

This example illustrates the Product/Severity/Image Search page with Cloud manager selected.

Product/Severity/Image Search

Help

Add Search Results to any other Search Criteria

Search Filters

☒ Product Family ?

☒ Include Related Component and SubComponents ?

Select one or more Values Find | View All First 1-2 of 2 Last

Value	Description
<input checked="" type="checkbox"/> CM	Cloud Manager
<input type="checkbox"/> PS	Portal Solutions

☐ Installed Products

☐ Severity

☐ Image Number

Search For Bugs

No Candidate Bugs Found

OK Cancel

- h. Click Search for Bugs.

Search results will list all CM bugs. All bugs should be selected.

Image: Search results

This example illustrates the search results listing all the bugs.

Product/Severity/Image Search ×

Value	Description
<input checked="" type="checkbox"/> CM	Cloud Manager
<input type="checkbox"/> PS	Portal Solutions

☐ Installed Products
☐ Severity
☐ Image Number

☐ Show Already Applied Updates

Select Bugs ? Find View All 1-10 of 45 First Last

BUG Number	Product	Subject	Applied	True Post Req	Custom Impact	Test Exists	Image Number	Details
<input checked="" type="checkbox"/> 27491947	CDM	UPD-CDM:OCI-PI6: PROVISIONING LOGS STORES WINDOWS CLIENT PASSWORD IN PLAIN TEXT			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28061559	CDM	UPD-CDM: OCI-PI6: PROVISIONING LOGS STORES WINDOWS CLIENT PASSWORD IN PLAIN TEXT			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28061903	CDM	UPD-CDM: RENAME APP ENGINE DC27860868 TO UPD-BUG NO>			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28088168	CDM	UPD-CDM: INCLUDE ALL PRPS IF THE PUM SOURCE IS NEW			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28142001	CDM	UPD-CDM:AUC-OCI DB START IN RESTRICTED MODE NOT CAPTURING IN SHIFT,FAILING IN WI			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28152735	CDM	UPD-CDM: EXPLICITLY UPDATE 8 AND 9 STEP INCASE EXCEPTION OCCURS IN OCI SELFUPD			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28154960	CDM	UPD-CDM:PI6GLD: OCI LIFT HAS ISSUE WHEN CHOOSING CREATE ONLY OPTION.			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28162518	CDM	UPD-CDM: PYTHON FILE CHANGE TO TEST CA CHANGES			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28186085	CDM	PEOPLECODE NOT GETTING APPLIED AFTER APPLYING THE CHANGE PACKAGE - CHANGE ASSIST			🚩	🚩	7	🗨
<input checked="" type="checkbox"/> 28236699	CDM	UPD-CDM: CP NOT GETTING APPLIED THROUGH SELF UPDATE PROCESS			🚩	🚩	7	🗨

- i. Click OK to include all the bugs and then click Next.
 - j. On Define Change Package Step 5 of 6, click Next.
 - k. Define Change Package Step 6 creates the Change Package definition.
13. Create change package in Change Assistant.

To create the change package in Change Assistant:

- a. Select Tools, Define or Create a New Change Package.
- b. Select the change package definition that was just created in PUM and click Finish.

Image: Define or Create a New Change Package

This example illustrates the Define or Create a New Change Package with the change package name to select.

Change Package Wizard

Define or Create a New Change Package

Create CP
☒ Search

PUM Source Database
 DEMOB

Define a New Change Package
 Change Packages are Defined in the PUM Source Database

Click Here to Open Browser and Connect to the PUM Source Database

Create a New Change Package
 Change Packages are Created using Definitions in the PUM Source

Download Directory: D:\psft\pum_download\

Change Package:

Package Name	Target Database	Package Type	Define Time
P17UPGRADE	CMPSDB	Application Updates	2018-08-30 10:24:15

Back Next Finish Cancel

- c. The change package is generated under D:\psft\pum_download.

14. Apply change package in Change Assistant.

To apply the generated change package:

- a. Select Tools, Apply Change Package.
- b. Select the change package to apply. Apply type is Initial Pass.

Image: Change Package Settings

This example illustrates the Change Package Settings page.

The screenshot shows the 'Change Package Wizard' window with the 'Change Package Settings' tab selected. The window has a blue title bar with a 'P' icon and a close button. On the left, there is a sidebar with 'Task Steps' and 'Settings' (selected). The main area contains the following fields and options:

- PUM Source Database:** A text box containing 'DEMO DB'.
- Download Directory:** A text box containing 'D:\psf\pum_download\'. To its right is an orange button with three dots.
- Change Package:** A dropdown menu showing 'updPI7UPGRADE.zip'.
- Apply Type:** A group box containing six radio buttons:
 - ☒ Initial Pass
 - ☒ All Steps
 - ☐ Source Steps Only
 - ☐ Target Steps Only
 - ☐ Subsequent Pass
 - ☐ Move To Production
- Synchronize Target Metadata (Requires Source):** A label followed by two radio buttons: ☒ Yes and ☐ No.

- c. Click Next.
- d. Select the target database (your target Cloud Manager database) from the drop-down and click Next.

Image: Select Target Database

This example illustrates the Select Target Database page.

Change Package Wizard

Select Target Database

Database: CMPSDB Create

Task Steps

- ☐ Settings
- ☒ Select Target

EMF Managed Servers

Server	Host	App Home	PS Home	Cfg Home	Release
App Server	pi6cmdoc.a...	/opt/oracle/...	/opt/oracle/...	NA	8.56.07
Batch Server	pi6cmdoc.a...	/opt/oracle/...	/opt/oracle/...	NA	8.56.07
Web Server	pi6cmdoc.a...	NA	NA	/home/psa...	12.2.1.0.0

Available File Servers

Select	Host Name	Path	Release
--------	-----------	------	---------

Login Information

User ID: CLADM

Access ID: SYSADM

Connect ID: people

DBOwner ID:

SQL Query Tool: D:\oracle\product\12.1.0\client_1\bin\sqlplus.exe

Current Homes

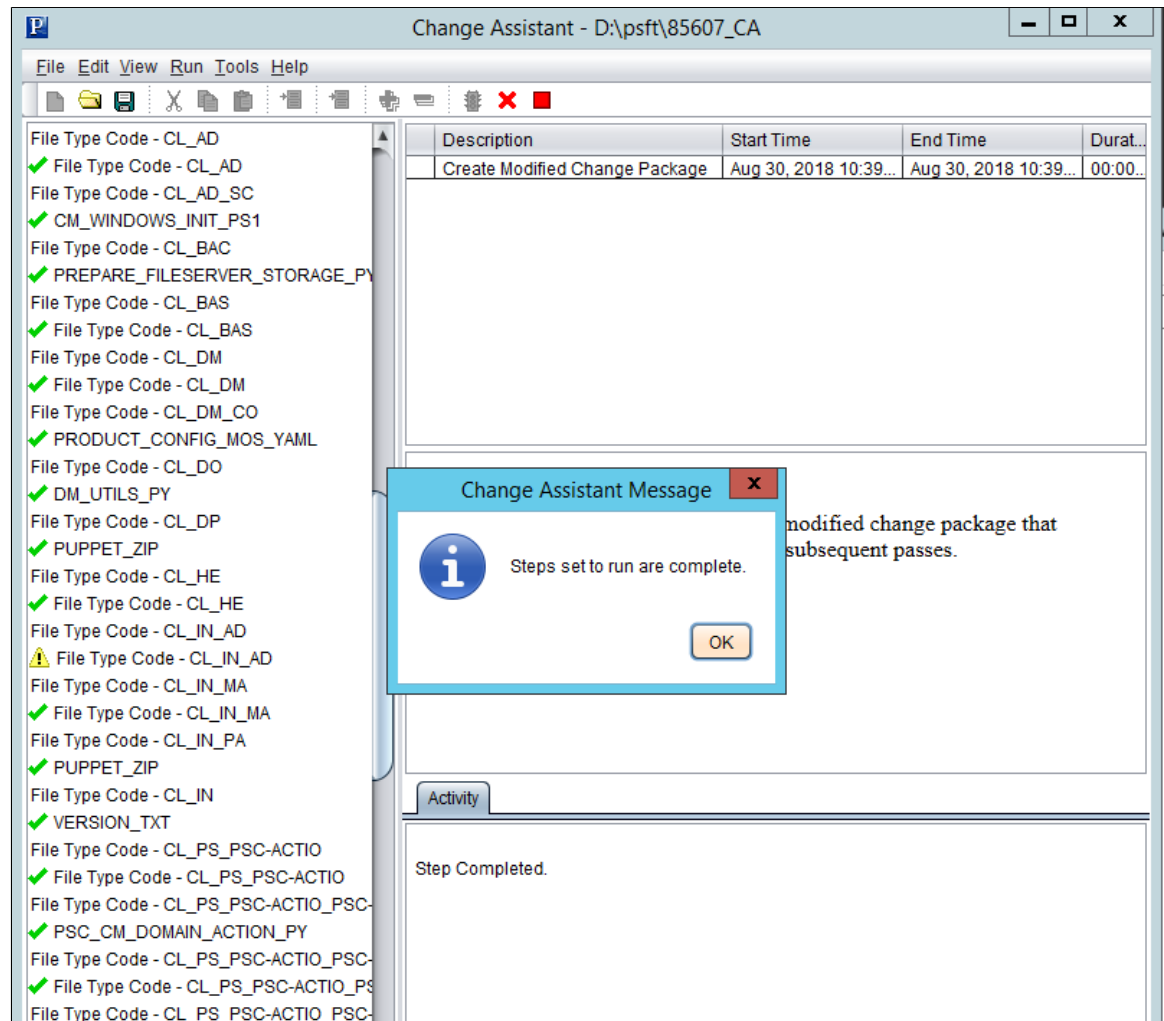
PS Home: D:\psft\85607_PS_HOME\

Back Next Finish Cancel

- e. Ensure there are no errors in the compatibility click and click Next.
- f. On the Summary page, click Finish.
- g. When the job is complete, there will be a confirmation. If there are any errors found while executing the job, those must be manually fixed.

Image: Change Package Job complete

This example illustrates a completed Change Package Job complete.



15. Manually copy the customization script.

Copy a post update customization script from the PUM source instance to the target Cloud Manager instance. Use scp to copy.

- a. Login to Cloud Manager VM.
- b. Change to root user \$sudo bash.
- c. Securely copy the customization script.

```
scp -i /home/psadm2/psft/data/cloud/ocihome/keys/cm_adm_pvt_key opc@<pum =>
src_hostname>:<ps_app_home>/cloud/cm_update_customization.sh $PS_APP_HO=>
ME/cloud
```

Where:

<code>pum_src_hostname</code>	Hostname of PUM source instance. The hostname can be determined in the Environment Details page for the PUM source environment.
<code>ps_app_home</code>	Path to <code>ps_app_home</code> on the PUM source. For example: <code>/u01/app/oracle/product/pt/ps_app_home</code> .

16. Run the customization script to complete the updates on target Cloud Manager.

The script does the following tasks:

- Update files from PUM source
- Synchronize code to File Server
- Cleanup old jar files
- Restart the domains

To execute the post update utility script for MMC package updates, perform the following steps:

If you are running Cloud Manager in OCI:

- Login to Cloud Manager VM.
- Change to root user `$sudo bash`.
- Change directory to `/opt/oracle/psft/pt/ps_app_home/cloud`.
- Execute the `cm_update_customization.sh` script as root user.

```
$ sudo bash
$ cd /opt/oracle/psft/pt/ps_app_home/cloud/
$ sh cm_update_customization.sh <pum_source_host_name> <pum_source_base_dir>
ir>
```

Where:

<code>pum_source_host_name</code>	Hostname of PUM source instance. The hostname can be determined in the Environment Details page for the PUM source environment. Do not use a fully qualified hostname. This is a mandatory input.
<code>pum_source_base_dir</code>	PeopleSoft deployment directory. The base directory can be determined in the Manage Attributes page, under Manage Environment > Full Tier > Other Attributes PeopleSoft Deployment Path. This is a mandatory input.

If you are running Cloud Manager in OCI-Classical:

- Login to Cloud Manager VM.
- Change to root user `$sudo bash`.

- c. Change directory to /opt/oracle/psft/pt/ps_app_home/cloud.
- d. Execute the cm_update_customization.sh script as root user.

```
$ sudo bash
$ cd /opt/oracle/psft/pt/ps_app_home/cloud/
$ sh cm_update_customization.sh <pum_source_host_name> <pum_source_base_d⇒
ir> <identity_domain_name> <cloud_user_name>
```

Where:

pum_source_host_name	Hostname of PUM source instance. The hostname can be determined in the Environment Details page for the PUM source environment. Do not use a fully qualified hostname. This is a mandatory input.
pum_source_base_dir	PeopleSoft deployment directory. The base directory can be determined in the Manage Attributes page, under Manage Environment >Full Tier > Other Attributes PeopleSoft Deployment Path. This is a mandatory input.
identity_domain_name	Oracle Cloud identity domain. This is an optional input. The domain name is defaulted to the configured domain name.
cloud_user_name	Oracle Cloud user name that is configured in Cloud Manager Settings page having access to the pum_source_host_name. This is an optional input. User name defaults to a configured user in Cloud Manager.

17. Verify changes on Target Cloud Manager

You need to manually verify the modifications done on the target Cloud Manager.

For more details on Change Assistant configurations, refer to online help for Change Assistant and Update Manager.

Applying Updates using Manage Updates

From Cloud Manager PI 5 onward, users can use the automated method to uptake PRPs.

Navigation

Cloud Manager Settings tile >Manage Updates

The update process will:

1. Provision a new PUM Source instance and a Windows Client
2. Apply PRPs (if any) on the PUM Source
3. Install and configure Change Assistant on Windows Client
4. Define a Change Package

5. Create Change Package
6. Apply Change Package
7. Reboot domains (as needed)

You need to manually subscribe to IH and PCM download channel. Whenever there is a new IH PI or new PRPs get posted, CM will show a notification on the update page about the new available updates. You need to click on the Apply button, which will ask for a set of credentials and spin up a IH PUM Source instance. Once the PUM source is up and running, rest of the automation kicks in and applies new updates to Cloud Manager instance. In case of failures during automated update process, admin must resolve the issue and come back to Cloud Manager to continue the update process. For example, if applying change package failed, then admin must connect to the Windows Client VM, launch Change Assistant and run the update job to completion. After which, admin must come back to Cloud Manager update page and continue the automated update process.

You need to perform the following steps prior to triggering Cloud Manager Application update:

- Subscribe to IH and PCM download channel
- Ensure a Windows Image is available in your account
- Configure Windows Image path in Cloud Manager Settings page
- Ensure to have a maintenance window before updating
- Ensure no user is using CM or submitting new operations
- Ensure to take a backup of CM before updating

Note: If the Cloud Manager update is initiated with jobs currently running, those jobs may fail. The administrator must clean up and resubmit any jobs that failed.

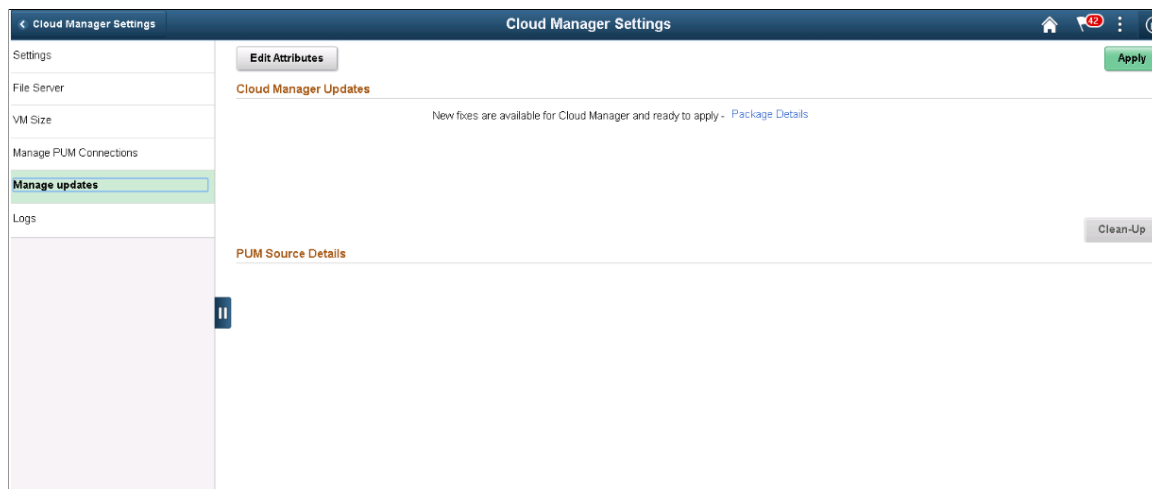
To trigger Cloud Manager application update, perform the following:

Note: Please ensure to take a backup of CM instance (using CM backup utility or snapshot method).

1. Log in to Cloud Manager as a user having PACL_CAD user role.
2. Click on Cloud Manager Settings tile, then select Manage Updates.

Image: Manage updates page

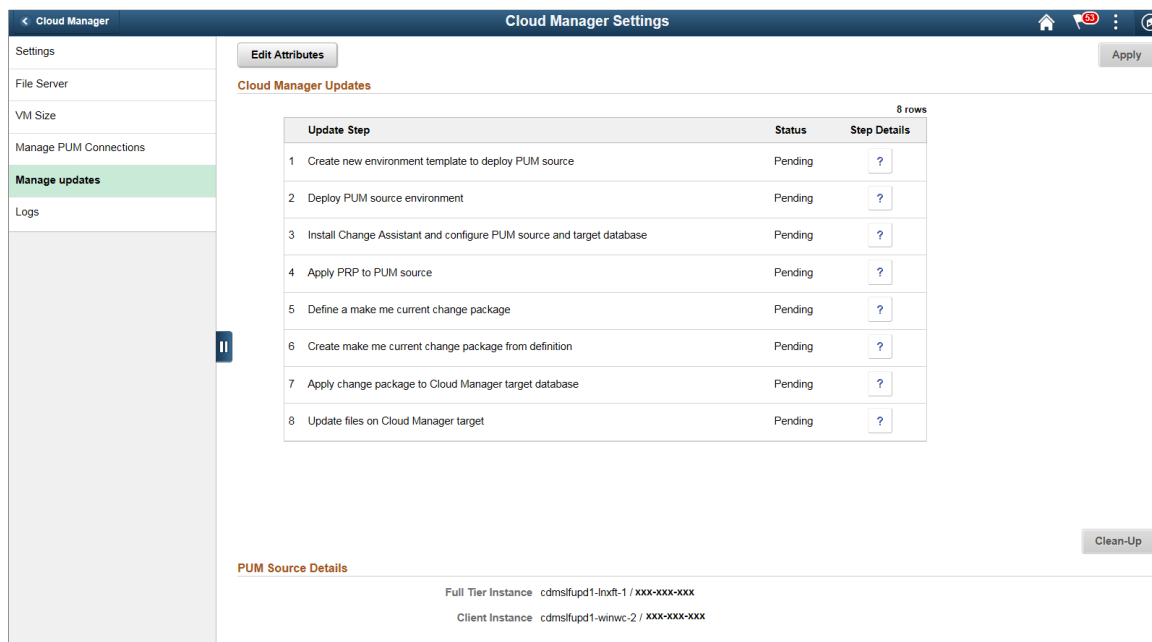
This example illustrates the fields and control on the Manage updates page.



3. Click the Edit Attributes button to input credentials that will be used to deploy a PUM Source environment.
4. Click Save.
5. Click Apply to initiate Cloud Manger Update. The update steps and status are displayed.

Image: Manage Updates page

This example illustrates the fields and controls on the Manage Updates page.



This table lists the update steps:

Step	Description
Step 1: Create new environment template to deploy PUM source	<p>In this step, a new environment template <i>CDMSLFUPDI</i> is created that will be used to deploy PUM source environment using the latest PeopleSoft Image. The template name can be obtained from the Edit Attributes page.</p> <p>If the status is <i>Success</i> - A new template was successfully created.</p> <p>If the status is <i>Failure</i> - Template creation failed. In this case, the Retry is enabled. You can delete the template if it was created incorrectly and retry the step.</p>
Step 2: Deploy PUM source environment	<p>In this step, a new PUM source environment named <i>CDMSLFUPDI</i> using the template that was created in the previous step.</p> <p>If the status is <i>Success</i> - A new PUM source is created and the details are provided in the PUM Source Details section.</p> <p>If the status is <i>Failure</i> - Creating a new PUM source environment failed.</p> <p>Retry enabled - Yes</p> <p>Remedial Action - Clean up the failed environment and any instances from both Cloud Manager UI and Oracle Cloud Infrastructure Console that were created and retry the step. The Continue option is disabled until the clean up is complete.</p>
Step 3: Install Change Assistant and configure PUM source and target database	<p>This step executes the processes such as install Change Assistant on the PeopleSoft Client VM instance, configure Change Assistant to add source and target database, and upload target database information to PUM source.</p> <p>If the status is <i>Success</i> - Change Assistant is installed and configured with source and target database information.</p> <p>If the status is <i>Failure</i> - Failed to install or configure Change Assistant.</p> <p>Retry enabled - Yes</p> <p>Remedial Action - Retry step. Alternatively choose to skip this step after configuring the source and target database manually using Change Assistant and retry</p>

Step	Description
Step 4: Apply PRPs on PUM source	<p>In this step, any PRPs that were downloaded are applied and available in Repository on the PUM source.</p> <p>If the status is <i>Success</i> - All PRPs were successfully applied on the PUM source environment.</p> <p>If the status is <i>Failure</i> - Failed to apply one or more PRPs.</p> <p>Retry enabled - Yes</p> <p>Remedial Action - Retry step. Alternatively choose to skip this step after manually applying all PRPs using Change Assistant. The required PRPs will be available on the PeopleSoft Client VM, if not copy from File Server PRP share.</p>
Step 5: Define make me current change package	<p>In this step, a new change package is defined.</p> <p>If the status is <i>Success</i> - Successfully defined a change package which includes all bugs for CM product code.</p> <p>If the status is <i>Failure</i> - Failed to define a change package.</p> <p>Retry enabled - Yes</p> <p>Remedial Action - Login to Update Manager PIA of PUM source and delete the change package definition in error and retry step. The name of the definition is in the format CMCHGPKG{n}, where n is the sequence number.</p>
Step 6: Create make me current change package from definition	<p>In this step, a change package using the definition that was created in previous step.</p> <p>If the status is <i>Success</i> - Successfully created a change package.</p> <p>If the status is <i>Failure</i> - Failed to create a change package.</p> <p>Retry enabled - Yes</p> <p>Remedial Action - Retry step. Alternatively, skip the step after creating the change package manually using Change Assistant with the same name as the definition created in previous step.</p>
Step 7: Apply change package to Cloud Manager target database	<p>In this step, the change package that was created in the previous step is applied.</p> <p>If the status is <i>Success</i> - Successfully applied the change package.</p> <p>If the status is <i>Failure</i> - Failed to apply the change package.</p> <p>Retry enabled - No</p> <p>Remedial Action - Warning: Reapplying a change package may apply the fix once again. It is recommended to complete the apply step manually using the Change Assistant and continue with next step.</p>

Step	Description
Step 8: Update files on Cloud Manager target	<p>. In this step, the new and updated files are copied to Cloud Manager target.</p> <p>If the status is <i>Success</i> - Successfully copied all file updates.</p> <p><i>Failure</i> - Failed to copy one or more files.</p> <p>Retry enabled - Yes</p> <p>Remedial Action - Retry step.</p>

After all steps are executed successfully the status of the update process is shown as below.

Note: For Cloud Manager on OCI - Using psadmin, restart application server domain, process scheduler domain and web domain on the Cloud Manager instance to ensure the latest updates are running.

The PUM Source environment can then be cleaned up using the Clean-up button.

Image: Manage Updates page

This example illustrates the fields and controls on the Manage Updates page.

The screenshot displays the 'Cloud Manager Settings' page, specifically the 'Manage updates' section. The left sidebar contains navigation links: Settings, File Server, VM Size, Manage PUM Connections, Manage updates (highlighted), and Logs. The main content area shows 'Cloud Manager Updates' with a message 'No Updates Available for Cloud Manager'. Below this is a table with 8 rows, showing the progress of update steps. The table has three columns: 'Update Step', 'Status', and 'Step Details'. The steps are as follows:

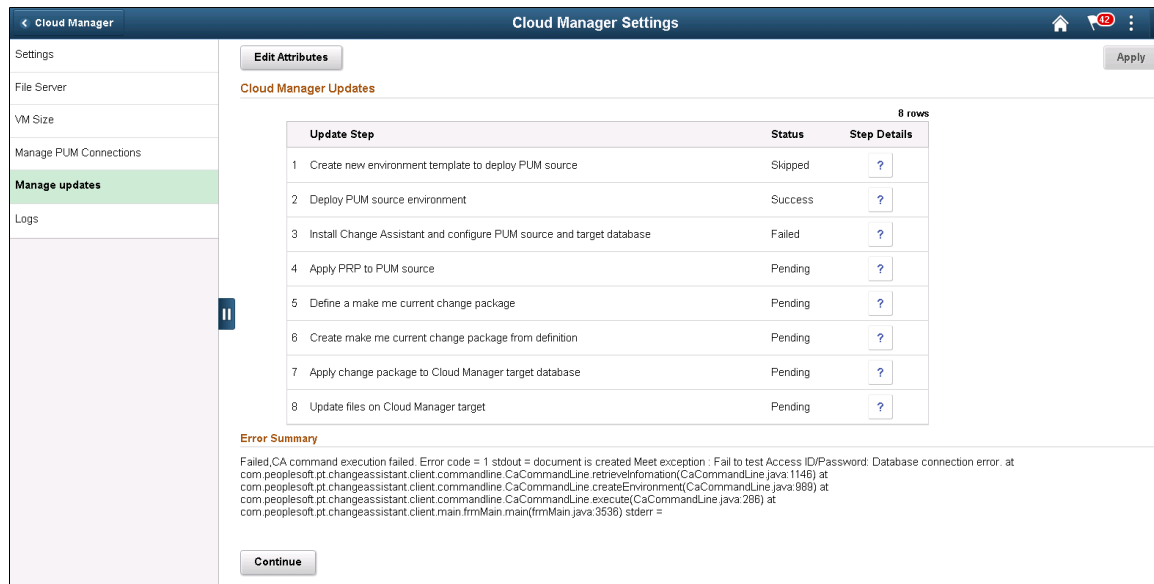
Update Step	Status	Step Details
1 Create new environment template to deploy PUM source	Skipped	?
2 Deploy PUM source environment	Success	?
3 Install Change Assistant and configure PUM source and target database	Success	?
4 Apply PRP to PUM source	Success	?
5 Define a make me current change package	Success	?
6 Create make me current change package from definition	Success	?
7 Apply change package to Cloud Manager target database	Success	?
8 Update files on Cloud Manager target	Success	?

At the bottom of the page, there is a 'PUM Source Details' section showing 'Full Tier Instance' and 'Client Instance' information. A 'Clean-Up' button is located at the bottom right of the main content area.

In case of failure, a Continue button is displayed as shown.

Image: Manage Updates page with the Continue button

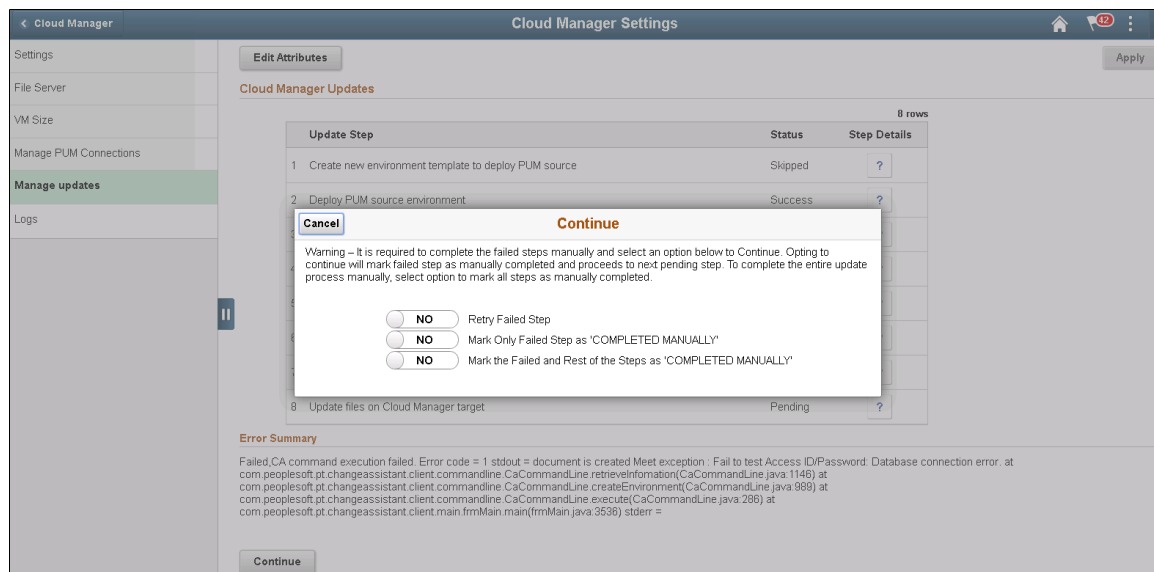
This example illustrates the fields and controls on the Manage Updates page for failed steps.



On clicking the Continue button, three options are shown as below:

Image: Continue Modal Window

This example illustrates the fields and controls on the Continue modal window.

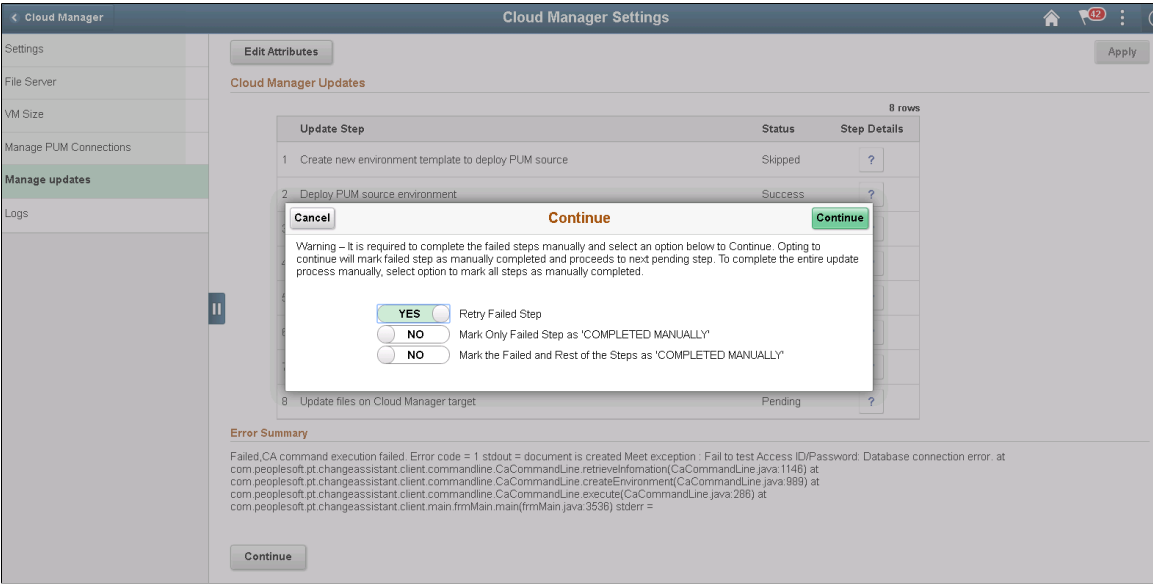


1. Retry Failed Step - retry the step again.
2. Mark only failed step as 'Completed Manually' - skip the failed step and continue from subsequent step to completion.
3. Mark the failed and rest of the pending steps as 'Completed Manually' - skip all steps and set update as complete.

After selecting 'Yes' in the Retry Failed Step field, a Continue button is displayed in the top right corner of the Continue modal window as shown.

Image: Continue Retry Modal Window

This example illustrates the fields and controls on the Continue Retry modal window.



Related Links

[Manage PUM Connections Page](#)

[Configuring Cloud Manager](#)

Chapter 7

Cloud Manager Logs

Understanding PeopleSoft Cloud Manager Logs

This topic helps you understand the PeopleSoft Cloud Manager logs.

PeopleSoft Cloud Manager Logs

The Cloud Manager log files are discussed in terms of:

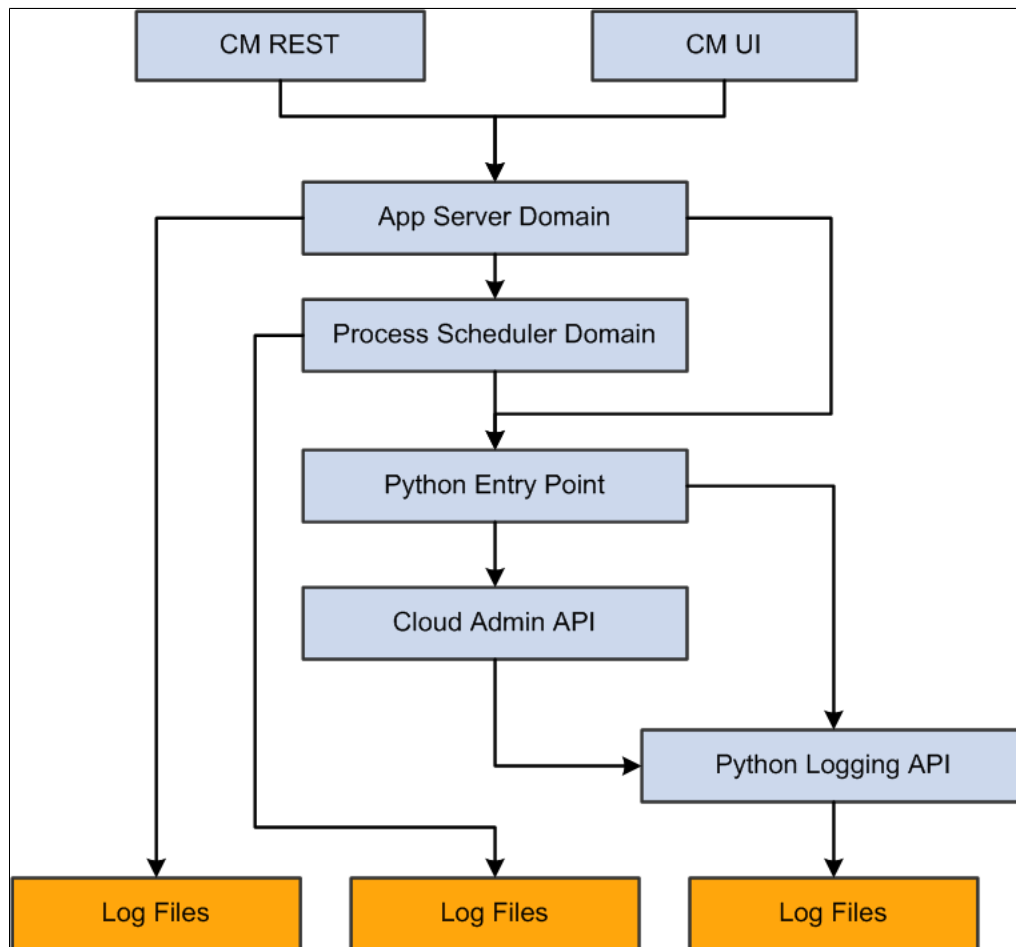
- Types of logs
- Log levels
- Changing log levels

Types of Logs

Logs contain useful information for analyzing any environment related issues or failures that may occur in the system.

Image: Logging Process Overview in Cloud Manager

The flow diagram below illustrates an overview of logging process in Cloud Manager.



Different type of logs are:

- Python Logs
- Environment Action Logs
- Download Manager Logs
- App Server Domain Logs
- Process Scheduler Domain Logs
- Puppet Logs in Provisioned VMs
- Terraform Logs (Only for OCI. For details, see [Terraform Logs for OCI.](#))

Different logs are correlated using the folder naming convention which are described in the following sections.

- Python Logs: Most cloud-related activities in Cloud Manager ultimately result in the invocation of Python wrapper scripts that invoke Cloud Admin code.

- **Environment Action Logs:** All Python logs related to PeopleSoft environments will be under the following folder: <CM Python Log Root>/envs/

All Python logs related to a particular environment <env name> will be under: <CM Python Log Root>/envs/<env name>. The path of <CM Python Log Root> is /home/psadm2/psft/data/cloud/cmlogs.

All Python logs related to the action <Type> on the environment denoted by <env name> will be under: <CM Python Log Root>/envs/<env name>/<Type>_TimeStamp

The action types can be:

- CREATE
 - DEPLOY (Only for OCI)
 - REMOVE
 - ACTIONS (Start, Stop, and so on)
 - ADD_TARGET
 - UPGRADE
 - BACKUP
 - RESTORE
 - CLONE
 - REFRESH
- **Download Manager Logs:** Log files generated by the download manager are available in the following folder: <CM Python Log Root>/dm/

Note: A contextual logs UI that can be accessed from the environment details page is available in Cloud Manager for administrator and end users while debugging issues in their environments.

Since the number of folders and files under cmlogs will grow over time, an archiving process for older files is there in Cloud Manager.

- **App Server Domain Logs:** App Server Domain logs are written in the default app server domain logs directory. \$PS_CFG_HOME/appserv/APPDOM/LOGS
- **Puppet Logs in Provisioned VMs:**
 - **Linux:** Logon into the provisioned VM using "opc" account with ssh. You should use the private key corresponding to the public key provided in the My Settings page, or use the Cloud Manager administrative key available in the Cloud Manager VM.

For details on My Settings page, see [My Settings Page](#).

The log files can be found at: /home/opc/cloud/admin/scripts/cloud_setup_psft.log

- Windows: Log into Windows VM as administrator. The log files can be found at: C:\cloud_setup_psft.txt

Log Levels

The different log levels that can be configured by the customer are:

- Critical
- Error
- Warning
- Debug

Note: Logging formats and levels are controlled using Python Logging configuration.

Attribute name	Format	Description
asctime	%(asctime)s	Human-readable time when the LogRecord was created. By default this is of the form '2003-07-08 16:49:45,896' (the numbers after the comma are millisecond portion of the time).
created	%(created)f	Time when the LogRecord was created (as returned by time.time()).
filename	%(filename)s	Filename portion of pathname.
funcName	%(funcName)s	Name of function containing the logging call.
levelname	%(levelname)s	Text logging level for the message ('DEBUG', 'INFO', 'WARNING', 'ERROR', 'CRITICAL').
levelno	%(levelno)s	Numeric logging level for the message (DEBUG, INFO, WARNING, ERROR, CRITICAL).
lineno	%(lineno)d	Source line number where the logging call was issued (if available).
message	%(message)s	The logged message, computed as msg % args. This is set when Formatter.format() is invoked.
module	%(module)s	Module (name portion of filename).
msecs	%(msecs)d	Millisecond portion of the time when the LogRecord was created.
name	%(name)s	Name of the logger used to log the call.
pathname	%(pathname)s	Full pathname of the source file where the logging call was issued (if available).
process	%(process)d	Process ID (if available).

Attribute name	Format	Description
processName	%(processName)s	Process name (if available).
relativeCreated	%(relativeCreated)d	Time in milliseconds when the LogRecord was created, relative to the time the logging module was loaded.
thread	%(thread)d	Thread ID (if available).
threadName	%(threadName)s	Thread name (if available).

LogRecord contains all the information pertinent to the event being logged.

class logging.LogRecord(name, level, pathname, lineno, msg, args, exc_info, func=None)

Parameters are detailed below:

- name – The name of the logger used to log the event represented by this LogRecord.

Note: This name will always have this value, even though it may be emitted by a handler attached to a different (ancestor) logger.

- level – The numeric level of the logging event (one of DEBUG, INFO etc.)

Note: This is converted to two attributes of the LogRecord: levelno for the numeric value and levelname for the corresponding level name.

- pathname – The full pathname of the source file where the logging call was made.
- lineno – The line number in the source file where the logging call was made.
- msg – The event description message, possibly a format string with placeholders for variable data.
- args – Variable data to merge into the msg argument to obtain the event description.
- exc_info – An exception tuple with the current exception information, or None if no exception information is available.
- func – The name of the function or method from which the logging call was invoked.

Note: Configurable Log Root: /home/psadm2/psft/data/cloud/cmlogs will be the Cloud Manager Python Log Root.

Changing Log Levels

The customer will be able to edit a single configuration file to set the log level.

The default logging level is “info”. To customize it to another level, modify the following entry in the file *\$PS_APP_HOME/cloud/pca_init.py* `logging_level = info`

Note: You do not need to restart the domains after the changing the log levels.

Important! In OCI, for Python logging configuration, two locations have to be configured.
 cloud/pca_int.conf - This controls the log level in Download Manager and Terraform handler.
 cloud/psc_cloud/psc_utils/psc_constants.py - This controls the log level in PSFT deployment code.

Terraform Logs for OCI

When Cloud Manager is used for provisioning environments, the provisioning of infrastructure is the first task that is executed. The Terraform log files generated during the execution can be found under the logs directory for the environment: /home/psadm2/psft/data/cloud/cmlogs/envs/<Environment Name>/CREATE_<Time Stamp>/

Log File Type	Description
tf.out	This is the Output Log, which contains the Terraform's stdout stream output.
tf.err	This is the Error Log, which contains the Terraform's stderr stream output.
out.log	This is the Driver Output generated by the Cloud Manager module that invokes Terraform.
console.log	This contains the uncaught exceptions.

Terraform Input and Output Files

The Terraform input/output files used by Cloud Manager for provisioning an environment can be found under: /home/psadm2/psft/data/cloud/ocihome/envs/<Environment Name>/

Log File Type	Description
terraform.tf.json	The .json file contains the specification of the VMs, storage volumes, database systems etc.
variables.tf	This file contains the tenancy OCID, user OCID, API key paths, finger print etc.
tf.result.json	This file contains a summary of the resources that were successfully created by Terraform.

Backing Up and Restoring Cloud Manager

Understanding Cloud Manager Backup and Restore

Cloud Manager delivers a utility to backup and restore Cloud Manager data and necessary configuration. It is a command line utility available in the Cloud Manager image. The backup files are uploaded to Oracle Storage Cloud and when restoring is retrieved from it. The backup and restore utility does a cold backup and hence requires Cloud Manager domains to be shut down manually. Ensure that there are no running jobs in Cloud Manager before shutting down Cloud Manager domains. Use the PSADMIN utility to gracefully shut down Cloud Manager domains.

Prerequisites

Below are the prerequisites prior to backup and restore of Cloud Manager:

1. APP, WEB and PRCS domains to be shutdown manually.
2. Ensure enough space is available on the Cloud Manager VM.

Backup Process

The Backup process in Cloud Manager backs up PS_APP_HOME and Database (PDB). These backups are loaded to the Oracle Cloud storage.

In Cloud Manager, the back up operation is performed by means of a command line utility, similar to a backup utility.

Note: This feature is not supported in OCI.

To perform a backup operation, follow the steps below:

1. Log in to a Cloud Manager instance via SSH.
2. Change directory to `cd /opt/oracle/psft/pt/ps_app_home/cloud/cm_backup sh cm_backup.sh -n <backup_name>`
3. Launch backup utility and follow the prompts.

Example for Cloud Manager Backup

```
[opc@adf99a cm_backup]$ sh cm_backup.sh -n dec16_01
```

Cloud Manager Backup files will be...' ** Warning **: Before taking a backup, you must shutdown application and process scheduler domains. Ensure there are no running jobs or new jobs getting submitted by users before shutting down the domains. If you backup while jobs are running or interrupt a backup process, then it might lead to an inconsistent backup. Restoring an inconsistent backup will make Cloud Manager unstable Would you like to proceed? [y|N]: y

Cloud Manager Backup files will be uploaded to Oracle Cloud Storage. Please provide Oracle Cloud credentials below:

Enter Oracle Cloud User Name: xyz@xxx.com

Enter Oracle Cloud Password: xxx

Re-Enter Oracle Cloud Password: xxx

Enter Oracle Cloud Domain Name: xxxxxx

Validating Oracle Cloud credentials... Login Success!!!

Backing up database... This will take a few minutes. Please wait...

DB Backup complete.

Backing up Midtier... This will take a few minutes. Please wait...

Mid tier backup complete.

Uploading Contents of folder /tmp/dec16_01 to Oracle Cloud Storage...

Upload Success.

Removing the local backup folder /tmp/dec16_01.

Cloud Manager backup completed successfully. Detailed logs can be found under /tmp/cm_backup_20161216_055212.log

Restore Process

The Restore operation retrieves backups from the Oracle Cloud Storage.

To perform a restore operation, follow the steps below:

1. Log in to a Cloud Manager instance via SSH.
2. Change directory to **cd /opt/oracle/psft/pt/ps_app_home/cloud/cm_backup**.
3. Launch restore utility and follow the prompts.
4. SSH into Cloud Manager and remove the directory /home/psadm2/psft/data/cloud/dm/cache/.
5. Before accessing the restored Cloud Manager PIA URL, you need to clear the application domain cache. To clear cache:
 - a. SSH into Cloud Manager instance
 - b. Signon as psadm2

```
sudo su - psadm2
```
 - c. Start psadmin
 - d. Select 1) Application Server
 - e. Select 1) Administer a domain

- f. Select 1) APPDOM
- g. Select 8) Purge Cache

Note: If you want specific downloads to begin, unsubscribe and then subscribe to the required download channels. Otherwise, the downloads will begin at the next scheduled time.

Note: For OCI–Classic, When CM is restored from a backup and CM instance takes a non-persistent IP, then the orchestrations js on must be modified to add the reserved IP config and restarted. This also needs the domains to be restarted on the CM instance.

Example for Cloud Manager Restore

```
[opc@ef6b5a cm_backup]$ ./sh cm_restore.sh
```

**** Warning **:** Restore operation overwrites existing data from selected backup. Do not stop or close session when restore is in progress. This will lead to an inconsistent restore and make Cloud Manager unusable.

Would you like to proceed? [y|N]: y

Cloud Manager Backup files will be downloaded from Oracle Cloud Storage. Please provide Oracle Cloud credentials below.

Enter Oracle Cloud User Name: xyz@xxx.com

Enter Oracle Cloud Password: xxx

Re-Enter Oracle Cloud Password: xxx

Enter Oracle Cloud Domain Name: xxxxxx

Validating Oracle Cloud credentials...

Login Success!!!

Listing available Cloud Manager backups

1. dec09_gpachaiy_backup
2. dec13_1
3. dec14_01
4. dec15_01
5. dec16_01
6. nov15bkup
7. nov15bkup2
8. nov15bkup3
9. nov15bkup4

10. nov15bkup5

11. nov15bkup6

12. nov1_backup1

13. nov1_backup2

14. nov1_backup4

15. nov8final

16. postupdate1nov

17. preupdate1nov

18. preupdate7nov

19. preupdate8nov

20. preupdate8nov_new

q. Quit

Please select backup to restore [1-9,q]: 5

Restoring selected backup 'dec16_01'

Creating temporary folder /tmp/dec16_01

Downloading /tmp/dec16_01/CLONEPDB.tgz

Downloading /tmp/dec16_01/PS_APP_HOME.tgz

Downloading /tmp/dec16_01/psft_configuration.yaml

Restoring database... This will take a few minutes. Please wait...

DB restore complete.

Restoring Midtier... This will take a few minutes. Please wait...

PS_APP_HOME

/opt/oracle/psft/pt/ps_app_home

Midtier restore complete.

Starting App server, Process Scheduler and PIA...

Deleting temp folder /tmp/dec16_01

Cloud Manager restore completed successfully. Detailed logs can be found under /tmp/
cm_restore_20161216_064900.log

Backup and Restore Cloud Manager Instance for OCI-Classic: Alternate Method

Using Oracle Cloud snapshots feature, the Cloud Manager instance can be backed up and restored on demand. There are two kinds of snapshots – collocated and remote. It is recommended to use remote snapshots for backing up Cloud Manager instance. Remote snapshots are time consuming, hence it should be a planned activity performed under a maintenance window. Refer to Oracle Cloud documentation for more information about storage volume snapshots.

Creating a Snapshot

To create a snapshot, perform the following:

1. Launch Oracle Cloud web UI and navigate to Cloud Manager Instance page.

Image: Cloud Manager Instance page

This example illustrates the fields and controls on the Cloud Manager Instance page.

The screenshot displays the Oracle Cloud web UI for a specific Cloud Manager instance. The instance is named 'CMPI04/d7fbc0aa-304b-4591-8c8c-2a7aa6da51c9' and is in a 'Running' state. The 'Information' section lists various attributes such as Name, Status, Tags, Shape, Image, Orchestration, OCPUs, Memory, DNS Name, Public IP Address, and Private IP Address. The 'Storage Volumes' section shows a single volume named 'CMPI04_storage' with a size of 154 GB and a status of 'Online'. The 'Security Lists' section shows a single security list named 'anc_cm_8000' with an inbound policy of 'Deny' and an outbound policy of 'Permit'.

Name	Description	Status	Size	Disk #
CMPI04_storage		Online	154 GB	1

Name	Description	Inbound Policy	Outbound Policy
anc_cm_8000		Deny	Permit

2. Navigate to Cloud Manager instance's storage volume details
3. Click Create Storage Snapshot button for creating a snapshot.

Image: Create Storage Snapshot page

This example illustrates the fields and controls on the Create Storage Snapshot page.

Name: /Compute-psftXXX.XXX@oracle.com/CMPi04_storage
Description: storage/default
Property: 154 GB
Size: Online (Since 81 days ago.)
Status: true
Bootable:

Attached to Instance

Name	Status	OCPUs	Memory	Disk #	Tags
CMPi04	Running	2	15 GB		/Compute-psftXXX.XXX@oracle.com/CMPi04_instanc...

Storage Snapshots

Name	Description	Schedule	Date	Size	Restored To
cmpi04_snap1	cmpi04_snap1		Jul 19, 2017 5:33:16 PM	154 GB	

Snapshot Schedules

No snapshot schedules created for this volume

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Note: Do not select Collocated option. Collocated snapshots are very quick but does not allow nested snapshots. Hence remote snapshot is required, though it takes more time than colocated snapshots.

- You can verify the collocated snapshot by means of Storage Snapshots tab in Oracle Cloud My Services page.

Image: Storage Snapshots page

This example illustrates the fields and controls on the Storage Snapshots page.

ORACLE[®] CLOUD My Services

Site: US006_252 | pslfxxx | xxx.xxx@oracle.com

Dashboard Users Notifications Monitoring

Compute Instances Network **Storage** Orchestrations Images Visualization

Storage Volumes
Storage Snapshots
Snapshot Schedules

Summary

1 total snapshots
- total colocated size
154GB total remote size
- snapshots restored

Storage Snapshots
A storage snapshot is a point-in-time copy of a storage volume. It can be used to create new storage volumes. [Learn more.](#)

Category: All Show: All Site: Current

Name	Volume	Schedule	Date	Size	Restored To
cmpi04_snap1	CMPi04_storage		Jul 19, 2017 5:33:16 PM	154 GB	

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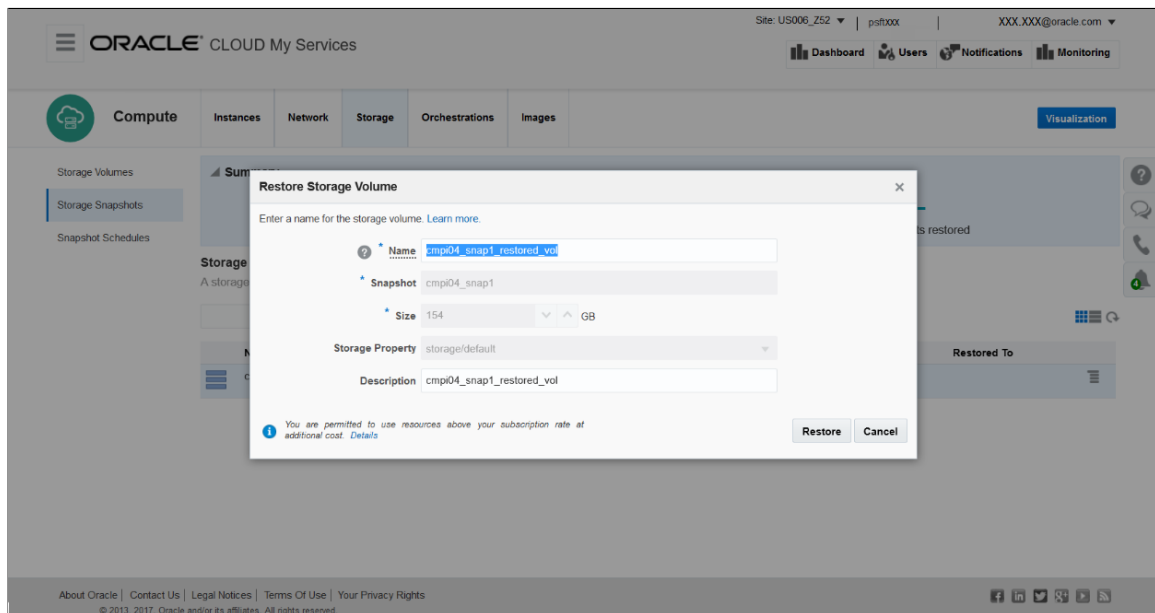
Restoring a Snapshot

To restore a snapshot, perform the following:

1. Navigate to Storages tab in Oracle Cloud My Services page.
2. Click Storage Snapshots tab to view all available snapshots. Select a snapshot to be restored and click Restore Volume option to create a new volume from the snapshot.

Image: Restore Storage Volume modal window

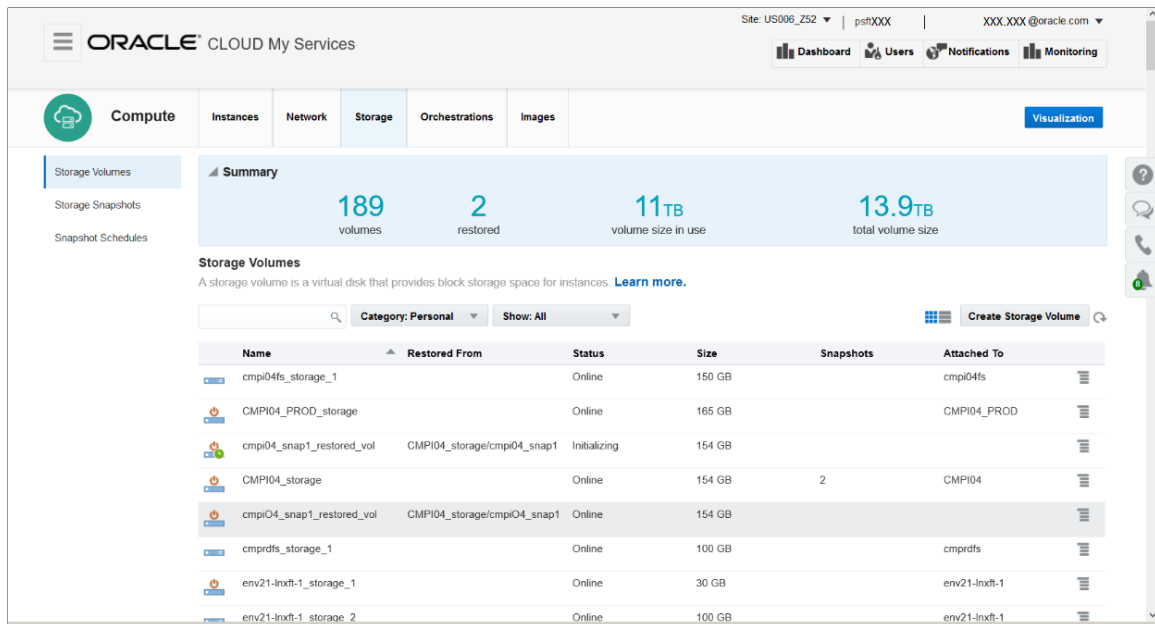
This example illustrates the fields and controls on the Restore Storage Volume modal window.



3. Enter a name for the restore storage volume and click Restore.
4. Verify the restore volume under Storage Volumes tab in Oracle Cloud My Services page.

Image: Restored Volume Image page

This example illustrates the fields and controls on the Restored Volume Image page.



5. Navigate to Orchestrations tab, select the Cloud Manager's instance orchestration and click Stop for stopping the Cloud Manager instance that needs to be restored.

Image: Stop CM Instance page

This example illustrates the fields and controls on the Stop CM Instance page.

Orchestrations
An orchestration defines the attributes and interdependencies of a collection of compute, networking, and storage resources. After building an orchestration (in a JSON-formatted file) and adding it to the service, you can trigger the creation and removal of all the resources defined in the orchestration with a single step. [Learn more.](#)

Category: Personal Show: All Upload Orchestration

Name	Description	Status	Time	Resources
v1 CMPI04_instance		Ready	Jul 19, 2017 5:28:02 PM	
v1 CMPI04_master		Stopping		
v1 CMPI04_PROD_instance		Ready	May 25, 2017 11:00:58 AM	
v1 CMPI04_PROD_master		Ready	May 25, 2017 11:00:25 AM	
v1 CMPI04_PROD_storage		Ready	May 25, 2017 11:00:27 AM	
v1 CMPI04_storage		Error		
v1 cmpi04_snap1_restored_vol_instance		Stopped		
v1 napartner-1nxt-1	PeopleSoft fulltier Instance	Ready	Jul 11, 2017 3:13:15 PM	
v1 NKC5REL1_instance		Ready	Jul 19, 2017 9:19:20 PM	
v1 NKC5REL1_master		Ready	Jul 19, 2017 9:18:52 PM	
v1 NKC5REL1_storage		Ready	Jul 19, 2017 9:18:54 PM	
v1 psft_cs_05_instance		Ready	Jun 28, 2017 1:15:22 PM	
v1 psft_cs_05_master		Ready	Jun 28, 2017 12:38:09 PM	

Context Menu (for CMPI04_instance):
View
Stop
Resize Instance
Download

- Verify that the instance has stopped.
- Once the instance is stopped, click Update from the menu to update the orchestration.

Image: Update Orchestration

This example illustrates the fields and controls on the Update Orchestration page.

ORACLE CLOUD My Services Site: US006_Z52 | psfXXX | XXX.XXX@oracle.com

Dashboard Users Notifications Monitoring

Compute Instances Network Storage **Orchestrations** Images Visualization

Summary
115 orchestrations 97 ready

Orchestrations
An orchestration defines the attributes and interdependencies of a collection of compute, networking, and storage resources. After building an orchestration (in a JSON-formatted file) and adding it to the service, you can trigger the creation and removal of all the resources defined in the orchestration with a single step. [Learn more.](#)

Category: Personal Show: All Upload Orchestration

Name	Description	Status	Time	Resources
v1 CMPI04_instance		Stopped	Jul 20, 2017 2:43:58 PM	
v1 CMPI04_master		Stopping		
v1 CMPI04_PROD_instance		Ready	May 25, 2017 11:00:58 AM	
v1 CMPI04_PROD_master		Ready	May 25, 2017 11:00:25 AM	
v1 CMPI04_PROD_storage		Ready	May 25, 2017 11:00:27 AM	
v1 CMPI04_storage		Stopping		
v1 cmpi04_snap1_restored_vol_instance		Stopped	Jul 20, 2017 2:35:35 PM	

Context Menu (for CMPI04_instance):
Update
Start
Delete
Resize Instance
Download

- Replace the existing volume name with the restored volume name under the Storage Attachments section of the JSON and click Update.
- Click Start option in the to start the orchestration.

- Verify that the Cloud Manager instance is getting created.

Cloud Manager instance is now recreated with restored volume.

Image: Recreated CM Instance page

This example illustrates the fields and controls on the Recreated CM Instance page.

Summary

- 100 instances
- 105 OCPUs
- 1.3TB memory
- 11TB volume size in use

Instances

An Oracle Compute Cloud Service instance is a virtual machine running a specific operating system, with the CPU and memory resources that you specify. [Learn more.](#)

Category: Personal Show: All

Name	Status	OCPUs	Memory	Volumes	Public IP	Private IP
CMPI04	Running	2	15 GB	154 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
cmpi04fs	Running	1	15 GB	150 GB	xxx.xxx.xxx.xxx	xx.xx.xxx.xx
CMPI04_PROD	Running	1	7.5 GB	165 GB	xxx.xxx.xxx.xxx	xx.xx.xxx.xxx
cmpi04fs	Running	1	15 GB	100 GB	xxx.xxx.xxx.xxx	xx.xx.xxx.xxx
env21-ixt1-1	Running	1	15 GB	130 GB	xxx.xxx.xxx.xxx	xx.xx.xxx.xxx
env21-winvc-2	Running	1	15 GB	60 GB	xxx.xxx.xxx.xxx	xx.xx.xxx.xxx
multimidev-ixmt-3	Running	1	15 GB	130 GB	xxx.xxx.xxx.xxx	xx.xx.xxx.xxx

- SSH to the restored instance using the same ssh key that was configured for source Cloud Manager instance. There will be a prompt to change password, please follow prompts and change password for the restored instance.

Image: Source Cloud Manager Instance page

This example illustrates the fields and controls on the Source Cloud Manager Instance page.

Instances / CMPI04_snap1_restored_vol (cmpi04_snap1_restored_vol)

Overview Start Stop Reboot Assign Public IP

Information

- Name: /Compute-psft/xxx.xxx@oracle.com/CMPI04_snap1_restored_vol/c237e8a-2eaa-4953-b201-658948901711
- Status: Running (Since 14 minutes ago.)
- Tags: /Compute-psft/xxx.xxx@oracle.com/cmpi04_snap1_restored_vol_instance, 571100516b1a7f9f2a352cda6f6eb4d6
- Shape: XXX
- Image: /Compute-psft/xxx.xxx@oracle.com
- Orchestration: /Compute-psft/xxx.xxx@oracle.com
- OCPUs: 1
- Memory: 7.5 GB
- DNS Name: cmpi04.compute-psft/xxx.xxx@oracle.com
- Public IP Address: xxx.xxx.xxx.xxx
- Private IP Address: xx.xx.xxx.xx

Storage Volumes

Name	Description
cmpi04_snap1_restored_vol	

Security Lists

PuTTY Configuration

Category: Session

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): xxx.xxx.xxx.xxx Port: 22

Connection type: ☐ Raw ☐ Telnet ☐ Rlogin ☒ SSH ☐ Serial

Load, save or delete a stored session

Saved Sessions

Default Settings

CMPI04

CMPI05

psft_cm_04

raspi

raspiwll

sic11jh.us.oracle.com

Close window on exit: ☐ Always ☐ Never ☒ Only on clean exit

Open Cancel

- Verify the hostname is same as the source instance.

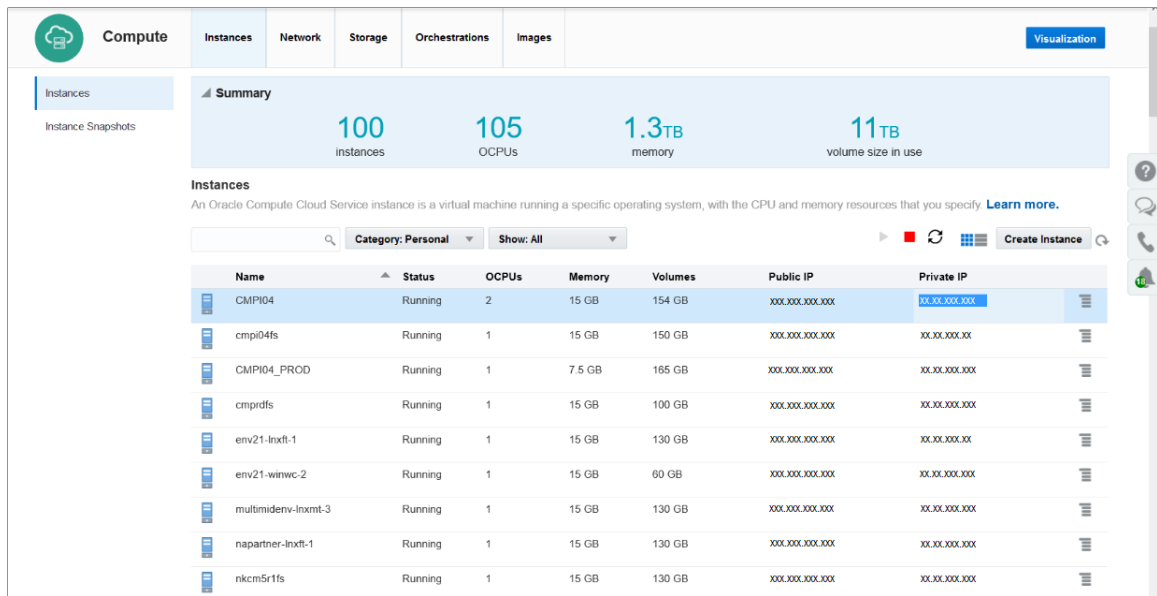
13. Verify the tnsnames.ora files (path:/opt/oracle/psft/db/tnsnames.ora /opt/oracle/psft/pt/tools_client/tnsnames.ora) to ensure the hostname is rightly configured.

Note: The HOST = <value> must be set to fully qualified hostname or the right private IP. The fully qualified hostname would look like "HOST = myhost.compute-mydomain.oraclecloud.internal"

14. Modify the tnsnames.ora file which has the old private IP. Cloud Manager's new private IP can be retrieved from Oracle Cloud UI.

Image: Cloud Manager New Private IP

This example illustrates the fields and controls on the Cloud Manager New Private IP page.



The screenshot shows the Oracle Cloud UI 'Compute' tab. At the top, there are tabs for Compute, Instances, Network, Storage, Orchestration, and Images. A 'Visualization' button is on the right. Below the tabs, a 'Summary' section displays four metrics: 100 instances, 105 OCPUs, 1.3TB memory, and 11TB volume size in use. Below this, a section titled 'Instances' provides a description and a 'Learn more' link. A search bar and filters for 'Category: Personal' and 'Show: All' are present. A table lists several instances with columns for Name, Status, OCPUs, Memory, Volumes, Public IP, and Private IP. The first instance, 'CMP104', is highlighted.

Name	Status	OCPUs	Memory	Volumes	Public IP	Private IP
CMP104	Running	2	15 GB	154 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
cmp104fs	Running	1	15 GB	150 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
CMP104_PROD	Running	1	7.5 GB	165 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
cmp104fs	Running	1	15 GB	100 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
env21-1nxt-1	Running	1	15 GB	130 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
env21-winw-2	Running	1	15 GB	60 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
multimidev-1nxt-3	Running	1	15 GB	130 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
napartner-1nxt-1	Running	1	15 GB	130 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx
nkcm5r1fs	Running	1	15 GB	130 GB	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx

15. Update private IP to reflect the new IP or fully qualified Cloud Manager's hostname.
16. On the Oracle Cloud web console, navigate to Cloud Manager Instance and add the security list to allow PIA port. Access PIA and verify operations.
17. SSH into Cloud manager instance and remove the directory /home/psadm2/psft/data/cloud/dm/cache/.
18. Before accessing the restored Cloud Manager PIA URL, you need to clear the application domain cache. To clear cache:
 - a. SSH into Cloud Manager instance
 - b. Signon as psadm2


```
sudo su - psadm2
```
 - c. Start psadmin
 - d. Select 1) Application Server
 - e. Select 1) Administer a domain
 - f. Select 1) APPDOM

- g. Select 8) Purge Cache

Note: If you want specific downloads to begin, unsubscribe and then subscribe to the required download channels. Otherwise, the downloads will begin at the next scheduled time.

Cloud Manager's private IP can change when restored and reboot. In such situations, the mount point /cm_psft_dpks on the Cloud Manager instance becomes read-only. To resolve this issue:

1. SSH to file server VM using Cloud Manager's SSH key.
2. Restart NFS service on file server.

Note: If you are restoring Cloud Manager to a lower version, say from Cloud Manager 05 to Cloud Manager 04, then do a manual copy of cloud directory from /opt/oracle/psft/pt/ps_app_home/cloud/ to file server location mounted on /cm_psft_dpks/cloud/*.

Note: The public IP may change for the newly restored Cloud Manager instance in case IP reservation was not used. This can be made consistent by using a reserved IP. Ensure the reserved IP attribute is available in the orchestration while creating the restored Cloud Manager instance.

If Cloud Manager's public IP has changed, then a workaround is to modify /etc/hosts on Cloud Manager instance and add an entry for earlier hostname with new IP.

Backup and Restore Cloud Manager using Block Volume Backups for OCI

Using OCI block volume backup feature, Cloud Manager facilitates to backup and restore PeopleSoft environments.

To backup cloud manager instance for OCI using block volumes, perform the following:

1. To create a consistent backup, shutdown the database, app, pia and prcs domains. SSH into the Cloud Manager instance and run following commands or use the psadmin utility.

```
$ sudo /etc/init.d/psft-db stop
$ sudo /etc/init.d/psft-prcs stop
$ sudo /etc/init.d/psft-appserver stop
$ sudo /etc/init.d/psft-pia stop
```

2. On the OCI console, navigate to Compute | Instances | Cloud Manager instance.
3. Navigate to Cloud Manager Instance Details page.
4. Scroll down to the Attached Block Volumes section. Click on the attached volume name which will have a name in the format StorageVol_<CMinstance>_<timestamp>. This volume is available as disk /dev/sdb in Cloud Manager instance. It is mounted on /u01/app/oracle/product, where Cloud Manager application is installed.
5. This will bring up the volume details. On this page, click on 'Create Backup'.
6. Provide a name for the backup and click 'Create Backup'.
7. After few minutes a backup is created.

8. Start the database, pia, app and prcs domains. Use below commands or psadmin utility.

```
$ sudo /etc/init.d/psft-db start
$ sudo /etc/init.d/psft-prcs start
$ sudo /etc/init.d/psft-appserver start
$ sudo /etc/init.d/psft-pia start
```

To restore a backup using block volumes, perform the following:

1. On the OCI console, navigate to Storage | Backups.
2. Select the backup to restore and click 'Create Block Volume' using menu on the right .
3. Enter a name for the block volume and choose the Availability Domain in which the volume will be created. Ensure to choose the same Availability Domain where Cloud Manager instance is deployed.
4. A new volume is created in few seconds.
5. SSH to the Cloud Manager instance and shutdown database, pia, app and prcs domains using commands below or psadmin utility.

```
$ sudo /etc/init.d/psft-db stop
$ sudo /etc/init.d/psft-prcs stop
$ sudo /etc/init.d/psft-appserver stop
$ sudo /etc/init.d/psft-pia stop
```

6. Clean up any running processes that might be using the data volume that needs to be restored.

```
$ ps -ef | grep psadm
psadm2 2969 1 0 Feb01 ? 00:00:19 rmiregistry 10100
psadm2 3495 1 0 Feb01 ? 00:00:20 rmiregistry 10200
$ sudo kill 2969 3495
```

7. Unmount /dev/sdb which is mounted on /opt/oracle/psft.

```
$ sudo umount /opt/oracle/psft
```

8. Navigate to OCI | Compute | Instances | Cloud Manager instance. Scroll down to the Attached Block Volumes. Select the volume to be restored and click Detach.
9. On the Detach Block Volume page, copy all DETACH COMMANDS.
10. Run the detach commands on the Cloud Manager instance.
11. Click 'Continue Detachment' (from step 9) and confirm detachment.
12. Verify in OCI UI for the instance that the volume is now removed.
13. Now restore the volume backup. Click Attach Block Volume. Select ISCSI attachment type. Select the block volume compartment where the backup volume was restored and select the restored volume. Select read-write access mode.
14. Click Attach to attach the restored volume to Cloud Manager instance.
15. After the status shows Attached. Retrieve the iSCSI commands that must be run on the instance to attach the volume in the OS. Click the Actions icon (Actions icon) next to the volume, and then click iSCSI Commands and Information. Copy all ATTACH COMMANDS.
16. SSH to the Cloud Manager instance and run the copied attach commands.

17. Verify the disk is attached using "sudo fdisk -l" command. There should now be an entry for /dev/sdb.

```
Disk /dev/sdb: 107.4 GB, 107374182400 bytes
255 heads, 63 sectors/track, 13054 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disk identifier: 0x00000000
```

18. Run 'mount -a' command on the CM instance and reboot the instance. Check status of Cloud Manager domains using following commands.

```
$ sudo /etc/init.d/psft-db status
PeopleSoft Container Database CDBHCM Status is Up
PeopleSoft Pluggable Database PSPDB Status is Open
PeopleSoft Database Listener is Up
$ sudo /etc/init.d/psft-prcs status
PeopleSoft Process Scheduler Domain PRCSDOM is Up
$ sudo /etc/init.d/psft-appserver status
PeopleSoft Application Server Domain APPDOM is Up
$ sudo /etc/init.d/psft-pia status
PeopleSoft PIA Domain peoplesoft is Up
```

If database and domains do not come up automatically then start them using the following commands. Reboot only if necessary.

```
$ sudo /etc/init.d/psft-db start
$ sudo /etc/init.d/psft-prcs start
$ sudo /etc/init.d/psft-appserver start
$ sudo /etc/init.d/psft-pia start
```

If the database or domains don't start successfully, then the restored backup may have issues, In such scenario, there are two options at this point -

- a. Restore the original volume. Follow steps 5 to 18 described under 'How to restore a backup' section.
- b. Troubleshoot the reason for failures and bring up the database or domains manually.

19. SSH into Cloud Manager and remove the directory /home/psadm2/psft/data/cloud/dm/cache/.

20. Before accessing the restored Cloud Manager PIA URL, you need to clear the application domain cache. To clear cache:

- a. SSH into Cloud Manager instance
- b. Signon as psadm2


```
sudo su - psadm2
```
- c. Start psadmin
- d. Select 1) Application Server
- e. Select 1) Administer a domain
- f. Select 1) APPDOM
- g. Select 8) Purge Cache

Note: If you want specific downloads to begin, unsubscribe and then subscribe to the required download channels. Otherwise, the downloads will begin at the next scheduled time.

REST API for PeopleSoft Cloud Manager

REST APIs for Oracle PeopleSoft Cloud Manager

REST API in Cloud Manager allows you to automate the interaction with Cloud Manager, bypassing the web user interface. To perform REST operations, you must have the administrator role.

REST APIs for Template Management

Using REST API, an administrator can perform the following operations:

- Listing all created templates
- Retrieve template information

Listing All Templates

Retrieves all the templates created in cloud manager.

Method: GET

Path: /template.v1/

Retrieve Template Information

Retrieves details of the selected template.

Method: GET

Path: /template.v1/<templateId>

REST APIs for Environment Management

The list of environment management operations that can be performed using REST APIs are:

- Create new environments
- Create environment with Lifted DPK in Compute
- Create environment with Lifted DPK in DBaaS
- Delete created environments
- Start environment
- Stop environment
- Snapshot environment

- List all the environments created and their status.
- List environment information

Creating New Environments

Provisions new environments in Cloud Manager.

Note: Be sure to create the required template prior to environment provisioning.

Method: POST

Path: /environment.v1/

Create Environment with Lifted DPK in Compute

Creates environment with lifted DPK in Compute.

Method: GET

Path: /environment.v1/

Create Environment with Lifted DPK in DBaaS

Creates environment with lifted DPK in DBaaS.

Method: GET

Path: /environment.v1/

Delete Environments

Deletes created environments.

Method: DELETE

Path: /environment.v1/<environmentID>

Response: Deleting Environment with EnvID:<envid>

Start Environment

Starts an environment.

Method: PUT

Path: /environment.v1/<env id>?action=start

Response: Starting Environment with environmentID:<envID>

Stop Environment

Stops an environment.

Method: PUT

Path: /environment.v1/<env id>?action=stop

Response: Stopping Environment with environmentID:<envid>

List Provisioned Environments

Lists all environments provisioned through the Cloud Manager accessible for the current user.

Method: GET

Path: /environment.v1/

List Environment Information

Retrieves the details of environment provisioned through the Cloud Manager accessible for the current user.

Method: GET

Path: /environment.v1/<envid>

REST APIs for Repository Management

The list of repository management operations that can be performed using REST APIs are:

- Create new channels
- Subscribe to release channels
- Unsubscribe from release channels
- List all the available channels
- List of subscribed channels
- List of unsubscribed channels
- Retrieve download status for channel

Create New Channels

Used to create new channels in repository.

Method: POST

Path: /channel.v1/

Response: Channel <channelName> created

Subscribe to Release Channels

Subscribes an already present unsubscribed channel.

Method: POST

Path: /subscribe.v1/

Response: <ChannelName> has been Subscribed

Unsubscribe from Release Channels

Unsubscribes an already present subscribed channel.

Method: DELETE

Path:/subscribe.v1/<channel Name>

Response: Channel HCM_92_Linux has been Unsubscribed

List Channels in Repository

Retrieves list of the channels created.

Method: GET

Path:/channel.v1/

List of Subscribed Channels

Retrieves list of the channels created.

Method: GET

Path:/Channel.v1/?subscribed=true

List of Unsubscribed Channels

Retrieves list of unsubscribed channels.

Method: GET

Path:/channel.v1/?subscribed=false

Retrieve Status of Subscribed Channel

Retrieves the status of downloads for a subscribed channel. User can verify the downloads happening for this particular channel and also view all the completed downloads.

Method: GET

Path:/subscription.v1/<channelName>/downloads

REST APIs for Lift and Shift Management

The list of Lift and Shift management operations that can be performed using REST APIs are:

- List DPKs uploaded in the object store
- Retrieve DPK details
- Retrieve Metadata from Object Store

- Delete DPKs present in object Store

List DPKs

Retrieves the list DPKs that is stored in Object Store. This data is retrieved from metadata that is stored in Cloud Manager.

Method: POST

Path: /channel.v1/

Response: Channel <channelName> created

Retrieve DPK Details

Retrieves DPK details.

Method: GET

Path:/liftedobject.v1/<ObjectName>

Retrieve Metadata

Retrieves the metadata from object store and update the Cloud Manager data.

Method: GET

Path:subscribe.v1/?action=retrivemetadata

Response: Please wait while Cloud Manager retrieves the information from OPC.

Delete DPKs

Deletes lifted DPKs from object store.

Method: DELETE

Path:subscribe.v1/

Response: Please wait while Cloud Manager Deletes from OPC.

