Oracle® Database Vault

Release Notes

Oracle9*i* Release 2 (9.2.0.8) for hp Tru64 UNIX

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These Release Notes describe issues you may encounter with Oracle Database Vault Oracle9*i* Release 2 (9.2.0.8). The Oracle Database Vault installation is covered in detail in the *Oracle Database Vault Installation Guide for hp Tru64 UNIX*.

This document may be updated after it is released. To check for updates to this document and to view other Oracle documentation, see the Documentation section on the Oracle Technology Network (OTN) Web site:

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This document contains the following sections:

- Installation Issues and Recommendations
- Usage Issues and Recommendations
- Frequently Asked Questions on Installation
- Miscellaneous Notes
- Documentation Accessibility

Installation Issues and Recommendations

This section describes the known issues pertaining to installation. It also provides the workarounds that you can use.

- DVCA Fails If the SID Is Longer than 8 Characters
- Cannot Install Oracle Database Vault in a Data Guard Environment
- OUI Summary Screen Shows Latest CPU in the List of Products Being Uninstalled
- Error Message Displaying When root.sh Is Run
- Database Vault Installer Does Not Take You Back to the First Screen
- Global Services Daemon Needs to Be Started on the Remote Nodes
- DVCA Fails to Configure Database Vault on a Remote RAC Node
- Oracle Universal Installer Not Detecting Database in RAC Environments
- DVCA Failing During Install of 9208 Database Vault in Oracle RAC Environment

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DVCA Fails If the SID Is Longer than 8 Characters

Bug 5258820

After you create a new database in the Database Vault home, running Database Vault Configuration Assistant (DVCA) manually fails if the Oracle System Identifier (SID) for the database is longer than 8 characters.

The following steps reproduce the bug:

1. Use Database Configuration Assistant (DBCA) to create a new database in an existing Database Vault home.

2. Run DVCA on the newly created database:

   ```
   $ORACLE_HOME/bin/dvca -action option -oh oracle_home -jdbc_str jdbc_connection_
   string -sys_passwd SYS_password -owner_account DV_owner_account_name -owner_
   passwd DV_owner_account_password [-acctmgr_account DV_account_manager_account_
   name] [-acctmgr_passwd DV_account_manager_password] [-logfile ./dvca.log]
   [-silent] [-nodecrypt] [-languages
   {["en"],["de"],["es"],["fr"],["it"],["ja"],["ko"],["pt_BR"],["zh_CN"],["zh_
   TW"]}]
   ```

   > **See Also:** *Oracle Database Vault Installation Guide for hp Tru64 UNIX* for more information on running the DVCA command.

The reason for the bug is that the Oracle Net service name in the `tnsnames.ora` (`$ORACLE_HOME/network/admin/tnsnames.ora`) file is truncated to 8 characters.

Workaround: Change the truncated Net service name in the `tnsnames.ora` file to its correct value. For example, suppose the SID for the database is `ORACLEDB90`, and the entry in `tnsnames.ora` appears as:

```
ORACLEDB = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST ....
```

Replace the truncated entry in the `tnsnames.ora` file with the correct entry. In this case, you would replace `ORACLEDB` with `ORACLEDB90`. For example:

```
ORACLEDB90 = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST ....
```

Cannot Install Oracle Database Vault in a Data Guard Environment

Bug 5577503

Oracle Database Vault installer fails to install Oracle Database Vault in an existing physical standby database.

Workaround: You can create a new physical standby database as follows:

1. Install Oracle Database Vault on the primary database.

2. Create a physical standby database using a hot backup of the primary database.

   This backup should include the Oracle home.

3. Set up communications between the primary and the physical standby database.

   Redo logs communicate changes from the primary database to the standby database.

   > **See Also:** *Oracle Data Guard Concepts and Administration* for more information on creating a physical standby database

OUI Summary Screen Shows Latest CPU in the List of Products Being Uninstalled

Bug 5966314

After applying the latest Critical Patch Update (CPU), when you run Oracle Database Vault installer to install Oracle Database Vault, the latest CPU is listed in the products being uninstalled on the Summary screen. This is not a problem, so you can ignore it. Database Vault installer does not rollback already applied patches. It just removes their entries from the inventory.

The current patchset contains patches that include all the fixes provided by already installed patches. Hence, Oracle Universal Installer must remove the old entries from the inventory. Oracle Universal Installer and the OPatch utility use the inventory for conflict detection of patches.

Workaround: Removing old patch entries from the inventory ensures that you do not get false errors related to patches in future.

Error Message Displaying When root.sh Is Run

Bug 8282608

After you complete the Oracle Database Vault installation, the following error message appears when you run `root.sh`:

```
rm: /install/raja/Home/rdbms/filemap: No such file or directory
```

Workaround: You can ignore this message.

Database Vault Installer Does Not Take You Back to the First Screen

Bug 5963717

When a user clicks **Cancel** to cancel out an error, the Oracle Database Vault installer takes the user back to the Specify File Location screen and not the first screen.

The following steps reproduce the error:

1. Run the Database Vault Installer for an Oracle Real Applications Cluster (RAC) node

2. When prompted to shut down the database processes, shut down the database and the listener process, but leave the Global Services Daemon (GSD) service running.

    On the node list screen, the installer raises an error about the following process not being shut down:

    ```
    /private/qatest/9208DV/RC2/d3/jre/1.1.8/bin/../bin/sparc/native_threads/jre
    ```

3. Click **Cancel**. Click **OK** in the confirmation prompt.

    The installer returns to the Specify File Location screen instead of the first screen.

Workaround: Click the **Back** button, which then displays the first screen. Alternatively, you can click **Cancel** to exit Oracle Universal Installer (OUI), and then start OUI again.

Global Services Daemon Needs to Be Started on the Remote Nodes

Bug 5971092

After you install Oracle Database Vault, the Global Services Daemon (GSD) service does not automatically start on the remote nodes. You must manually start the GSD service on the remote nodes. You then can start the database and the listener process on the remote nodes.

Workaround: Use the following command to start the GSD service on each Oracle Real Application Clusters (RAC) node:

```
$ORACLE_HOME/bin/gsdctl start
```

DVCA Fails to Configure Database Vault on a Remote RAC Node

Bug 8278959

For Oracle Real Application Clusters (RAC), DVCA fails to configure Database Vault on remote RAC nodes.

Workaround: Run the same DVCA invocation on it that you used for the first node, except to replace the SID names and node names with those of the remote node. Use the following syntax:

```
dvca -action optionrac
-oh installed_RAC_home
-jdbc_str jdbc:oracle:oci:@remote_SID_name
-racnode remote_hostname
-sys_passwd  SYS_password
-nodecrypt
-silent
```

Oracle Universal Installer Not Detecting Database in RAC Environments

Bug 8274858

When a single-instance Oracle Database is installed on a node that is part of a cluster, then that database is treated as an Oracle RAC database with a single node. In this case, the installation of Oracle Database Vault over the single-instance database is not possible.

Workaround: In the `oraInventory/ContentsXML` folder, update the inventory entry for this Oracle home in the `inventory.xml` file.

The existing entry is as follows:

```
<HOME NAME="Home" LOC="/OH_directory" TYPE="0" IDX="1">
  <NODE_LIST>
    <NODE NAME="name_of_node"/>
  </NODE_LIST>
</HOME>
```

Remove the `NODE_LIST` element. In other words, replace this entry with the following entry:

```
<HOME NAME="Home" LOC="/OH_directory" TYPE="0" IDX="1">
</HOME>
```

DVCA Failing During Install of 9208 Database Vault in Oracle RAC Environment

Bug 8341489

During the installation of Oracle Database Vault in an Oracle Real Application Clusters (RAC) environment, Database Vault Configuration Assistant fails and displays the following error:

```
DVCA started
Executing task LOCKOUT_OFF
@ ORAPWD,result=/install/ranjeet/Home/bin/dvca_lock.sh,1,
Executing task RESTART_SERVICES_PATCH
MANAGE_INSTANCE stop isqlplus
MANAGE_LISTENER start listener
MANAGE_INSTANCE start RDBMS
Executing task SQLPLUS_CATOLS
Executing task RESTART_SERVICES_OLS
MANAGE_INSTANCE stop isqlplus
MANAGE_LISTENER start listener
MANAGE_LISTENER start listener
result=/install/ranjeet/Home/bin/dvca_start_listener.sh,1,
MANAGE_INSTANCE start RDBMS
Executing task SQLPLUS_CATMAC
connect SYS:java.sql.SQLException: ORA-00603: ORACLE server session
terminated by fatal error

Executing task UNLOCK_DVSYS
Error executing task UNLOCK_DVSYS:java.lang.NullPointerException
Executing task LOAD_NLS_FILES
load(error):java.sql.SQLException: ORA-12514: TNS:listener could not resolve
SERVICE_NAME given in connect descriptor

load(error):java.sql.SQLException: ORA-00603: ORACLE server session
terminated by fatal error
```

Workaround: Before you begin the patch upgrade, set the following system variables:

```
/sbin/sysconfig -r inet udp_sendspace=65536
/sbin/sysconfig -r inet 655360
```

You can check the current values of these variables by running the following command:

```
/sbin/sysconfig -q inet
```

Usage Issues and Recommendations

This section discusses usage issues that you may encounter with Database Vault. It also provides the workarounds for these issues.

- Accounts with DV_OWNER, DV_ADMIN, or DV_SECANALYST Role Cannot Use the ALTER USER PL/SQL Statement

- Enabling a Realm Fails When a Realm Secured Object Is Invalid

- Command Rule SELECT Not Found for SYSADM.%

- Factors with Validation Functions May Cause Invalid Cursor Errors

- CREATE SESSION Privilege Is Controlled by the Data Dictionary Realm

Accounts with DV_OWNER, DV_ADMIN, or DV_SECANALYST Role Cannot Use the ALTER USER PL/SQL Statement

Bug 5161953

Accounts with the `DV_OWNER`, `DV_ADMIN`, or `DV_SECANALYST` role cannot run the following PL/SQL statement:

```
ALTER USER user QUOTA UNLIMITED ON tablespace;
```

Workaround: Revoke the role from the account, run the `ALTER USER` statement, and then run the `GRANT` statement to grant the role back the role to the account. This works if the account is not the `DV_OWNER` account that was created during installation. If the account is the `DV_OWNER` account created during installation, then you would must use the following steps:

1. Disable the Database Vault command rule for the `ALTER USER` statement.

2. Run the `ALTER USER` statement.

3. Re-enable the Database Vault command rule for the `ALTER USER` statement.

Enabling a Realm Fails When a Realm Secured Object Is Invalid

Bug 5582720

Enabling a realm fails with the following error:

```
ORA-00942: Table or view does not exist
```

This might happen if you try to enable a realm on an invalid object.

Workaround: Ensure that all objects protected by the realm are valid, before trying to enable the realm.

Command Rule SELECT Not Found for SYSADM.%

Bug 5508407

The following error is displayed when you try to update the owner or the rule set for the `SELECT` command rule:

```
Command Rule SELECT not found for schema.%
```

After the update has failed, you are not allowed to delete the command rule.

Workaround:

1. Login to SQL*Plus using the `SYSTEM` account. Run the following command:

   ```
   SQL>ALTER SYSTEM FLUSH SHARED_POOL;
   ```

2. Delete the command rule.

3. If you were trying to update the command rule, then re-create the command rule with the new parameters.

4. Repeat Step 1 for the new command rule to take effect.

Factors with Validation Functions May Cause Invalid Cursor Errors

Bug 5953290

After including a validation function in a factor, you might get the ORA-01001 or
ORA-07445 error when trying to use the factor in a command rule.

Workaround: Implement the validation logic in the factor function itself rather than
using a validation function to implement the logic.

CREATE SESSION Privilege Is Controlled by the Data Dictionary Realm

Use the following steps to grant the CREATE SESSION privilege:

1. Add the SYSTEM user to the data dictionary realm as an owner.

2. Log in to SQL*Plus as the SYSTEM user.

3. Grant the CREATE SESSION privilege.

4. Enable the data dictionary realm.

Frequently Asked Questions on Installation

This section covers some of the frequently asked questions related to Database Vault
installation. Oracle Database Vault installation is covered in detail in the *Oracle
Database Vault Installation Guide for hp Tru64 UNIX*

The installer does not detect my existing Oracle9*i* Release 2 (9.2.0.8) instance. What should I do?

To allow the installer to find the database instance information, check the following:

- /var/opt/oracle/oratab has an entry for the database. The oratab entry for
  the database is case-sensitive. Ensure that this entry exactly matches your
  database.

- All database names listed in /var/opt/oracle/oratab have unique system
  identifier (SID) names.

- The file, /var/opt/oracle/oraInst.loc exists.

- The oraInventory location is set in the /var/opt/oracle/oraInst.loc file.

- The oraInventory location set in /var/opt/oracle/oraInst.loc is the same
  as the 9.2.0.8 Enterprise Edition database's oraInventory location.

- The 9.2.0.8 database home does not have Oracle Database Vault in it.

**I have installed Oracle Database Vault into an Oracle home that has multiple databases. How do I
secure the other databases in the Oracle home?**

You would need to run Database Vault Configuration Assistant (DVCA) manually on
the other databases. Refer to Appendix C in the *Oracle Database Vault Installation Guide
for hp Tru64 UNIX* for detailed instructions.

**I have installed Oracle Database Vault on a Real Application Clusters (RAC) database instance.
How do I secure the other nodes in the cluster?**

You must run DVCA manually on the other RAC nodes. Refer to "Run DVCA to Set
Instance Parameters" in the *Oracle Database Vault Installation Guide for hp Tru64 UNIX*
for detailed instructions.

Miscellaneous Notes

This section contains miscellaneous notes not covered in the Oracle Database Vault documentation.

- Snapshots and Materialized Views

- JOB_QUEUE_PROCESSES Initialization Parameter

- Language Support in Database Vault

- Adding a Supported Language to the Database Vault Administrator Application

Snapshots and Materialized Views

The keyword `SNAPSHOT` is supported in place of `MATERIALIZED VIEW` for backward compatibility.

JOB_QUEUE_PROCESSES Initialization Parameter

The `JOB_QUEUE_PROCESSES` initialization parameter specifies the maximum number of processes that can be created for the execution of jobs. It specifies the number of job queue processes per instance.

This parameter must have a non-zero value. The default value for `JOB_QUEUE_PROCESSES` is 10.

Language Support in Database Vault

Database Vault supports the following languages:

- `de`: German

- `en`: American English

- `es`: Spanish

- `fr`: French

- `it`: Italian

- `ja`: Japanese

- `ko`: Korean

- `pt_BR`: Brazilian Portuguese

- `zh_CN`: Simplified Chinese

- `zh_TW`: Traditional Chinese

Ensure that the `NLS_LANG` parameter in your database corresponds to one of these languages before you install Oracle Database Vault. If the language setting in the `NLS_LANG` parameter is not compatible, then the Database Vault Administrator (DVA) application interface is not displayed properly.

Adding a Supported Language to the Database Vault Administrator Application

Use the following steps to add a supported language to an already installed instance of the Database Vault Administrator (DVA) application:

1. Disable Database Vault.

   > **See Also:** Appendix B, "Enabling and Disabling Oracle Database Vault" in the *Oracle Database Vault Administrator's Guide*

2. Ensure that environment variables such as `ORACLE_HOME`, `PATH`, `ORACLE_SID`, and `LD_LIBRARY_PATH` are properly set.

3. Run the following command:

```
java -classpath
$ORACLE_HOME/dv/jlib/dvca.jar:$ORACLE_HOME/lib/xmlparserv2.jar:$ORACLE_
HOME/jdbc/lib/classes12.zip
oracle.security.datval.dvca.util.DvcaNLSLoader
"jdbc:oracle:oci:@database_sid"
dvsys dvsys_password file1 file2 ... fileN
```

   Here, *file1 file2 ... fileN* are the names of the language set files. The language files are a set of files with the following names:

   - `code_language.dlf`
   - `factor_type_language.dlf`
   - `factor_language.dlf`
   - `rule_language.dlf`
   - `rule_set_language.dlf`
   - `realm_language.dlf`

   For example, to enable support for Japanese language, use the following command:

```
java -classpath
$ORACLE_HOME/dv/jlib/dvca.jar:$ORACLE_HOME/lib/xmlparserv2.jar:$ORACLE_
HOME/jdbc/lib/classes12.zip
oracle.security.datval.dvca.util.DvcaNLSLoader "jdbc:oracle:oci:@db1"
dvsys oracle $ORACLE_HOME/dv/admin/code_ja.dlf
```

   > **Note:** You can either repeat the preceding command for each file in the language set, or use a single command with the language specific file names separated by whitespace characters.

4. Enable Database Vault.

   > **See Also:** Appendix B, "Enabling and Disabling Oracle Database Vault" in the *Oracle Database Vault Administrator's Guide*

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