



**Advanced Virtualization Technologies**



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# OpenVMS in Oracle Cloud

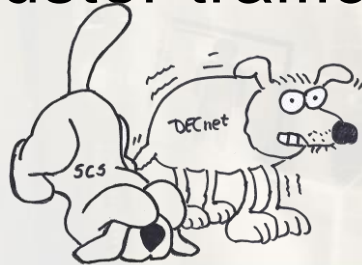
Arie de Groot  
AVTware

[avtware.com](http://avtware.com)

# Cloud Considerations

## OpenVMS

- Hardware
- In-house
- Always on
- DECnet/Cluster traffic



## Cloud

- SAAS / PAAS / IAAS
- Somewhere
- Resource sharing
- TCP/IP

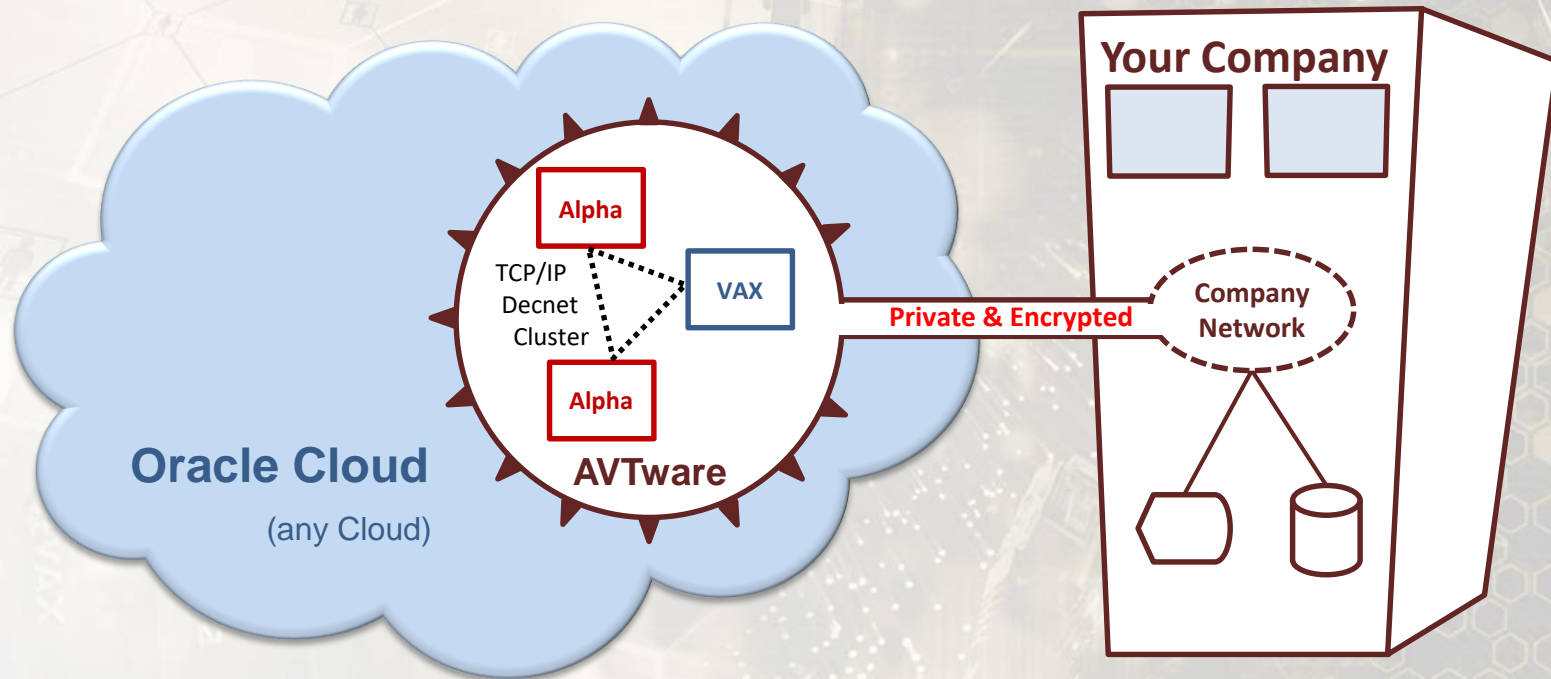


# AVTware Cloud Requirements

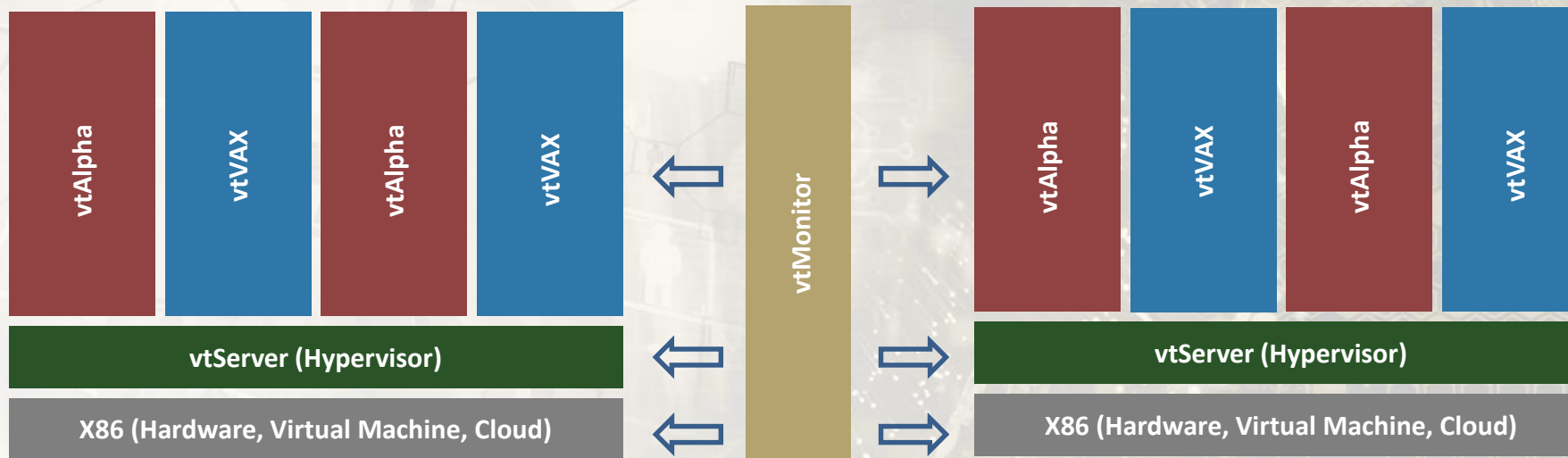
- CPUs
- Memory
- Storage
  - ➔ IAAS
- Protected Environment
- Cloud Ready Image



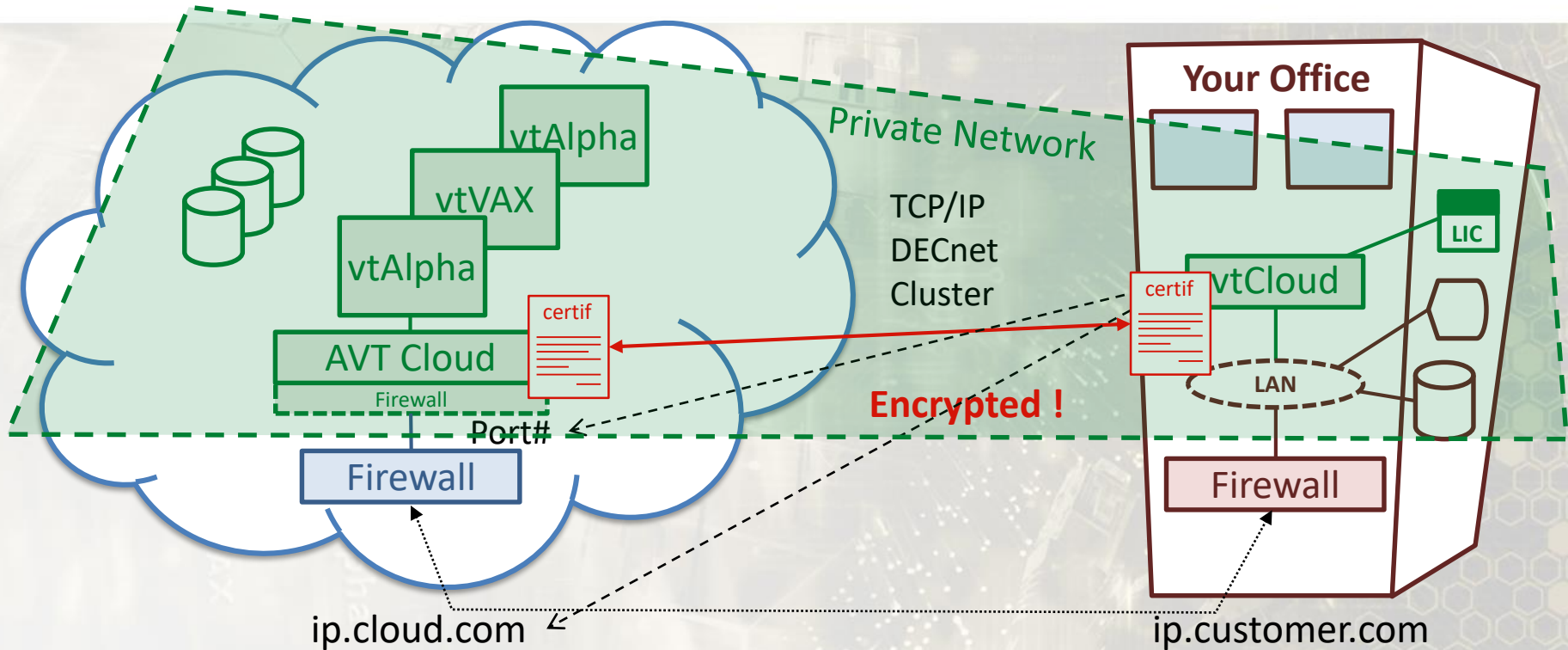
# AVTware Cloud Solution



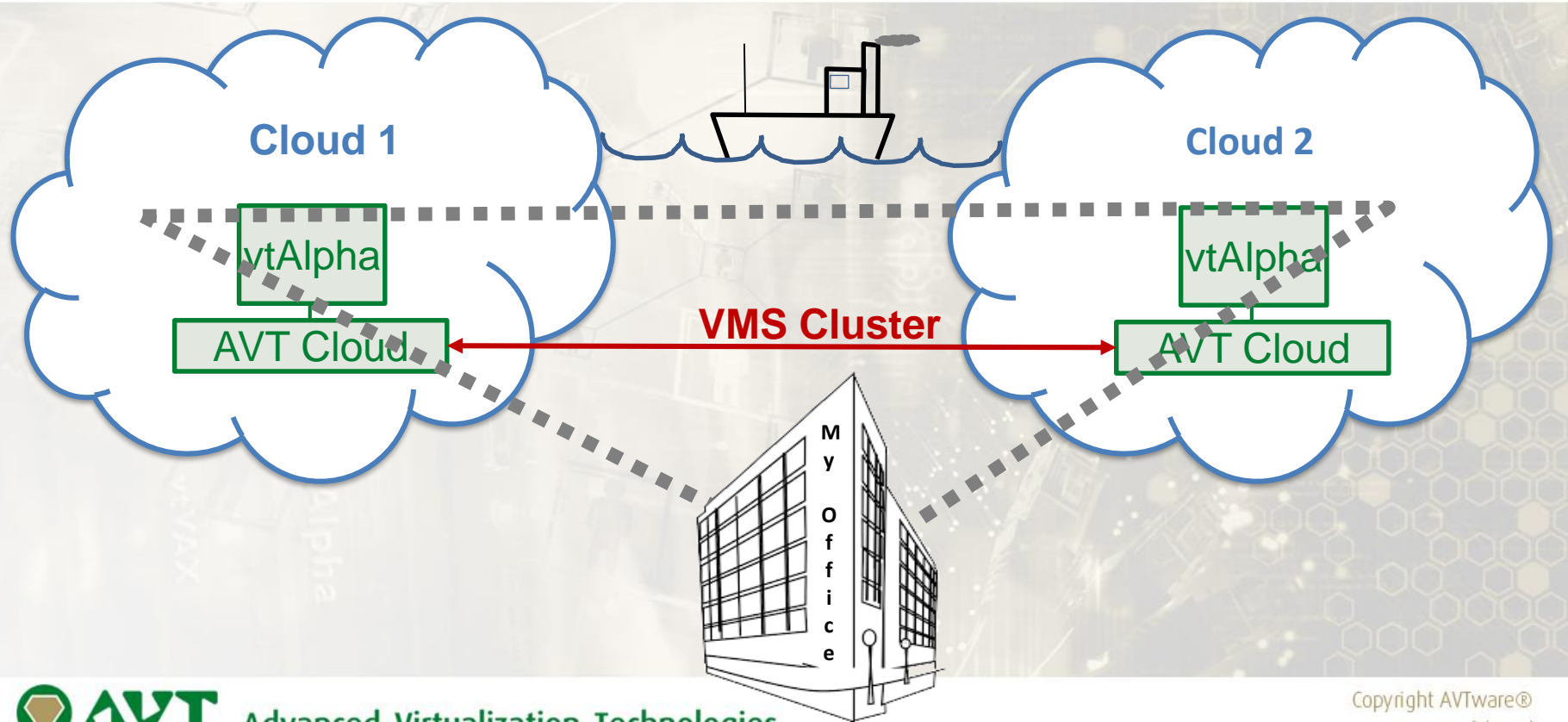
# AVTware Structure



# AVTware Cloud

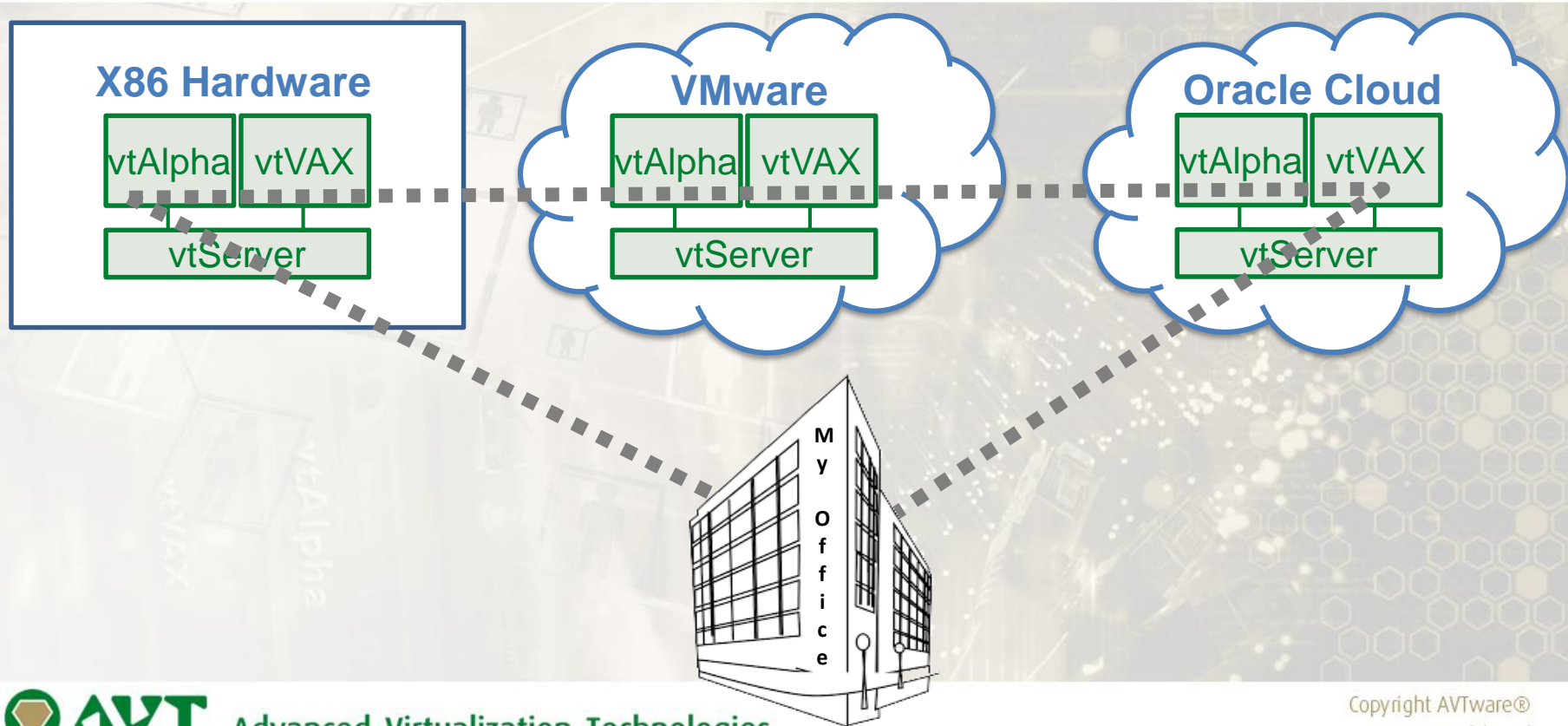


# AVT Cloud Multi-Site Cluster





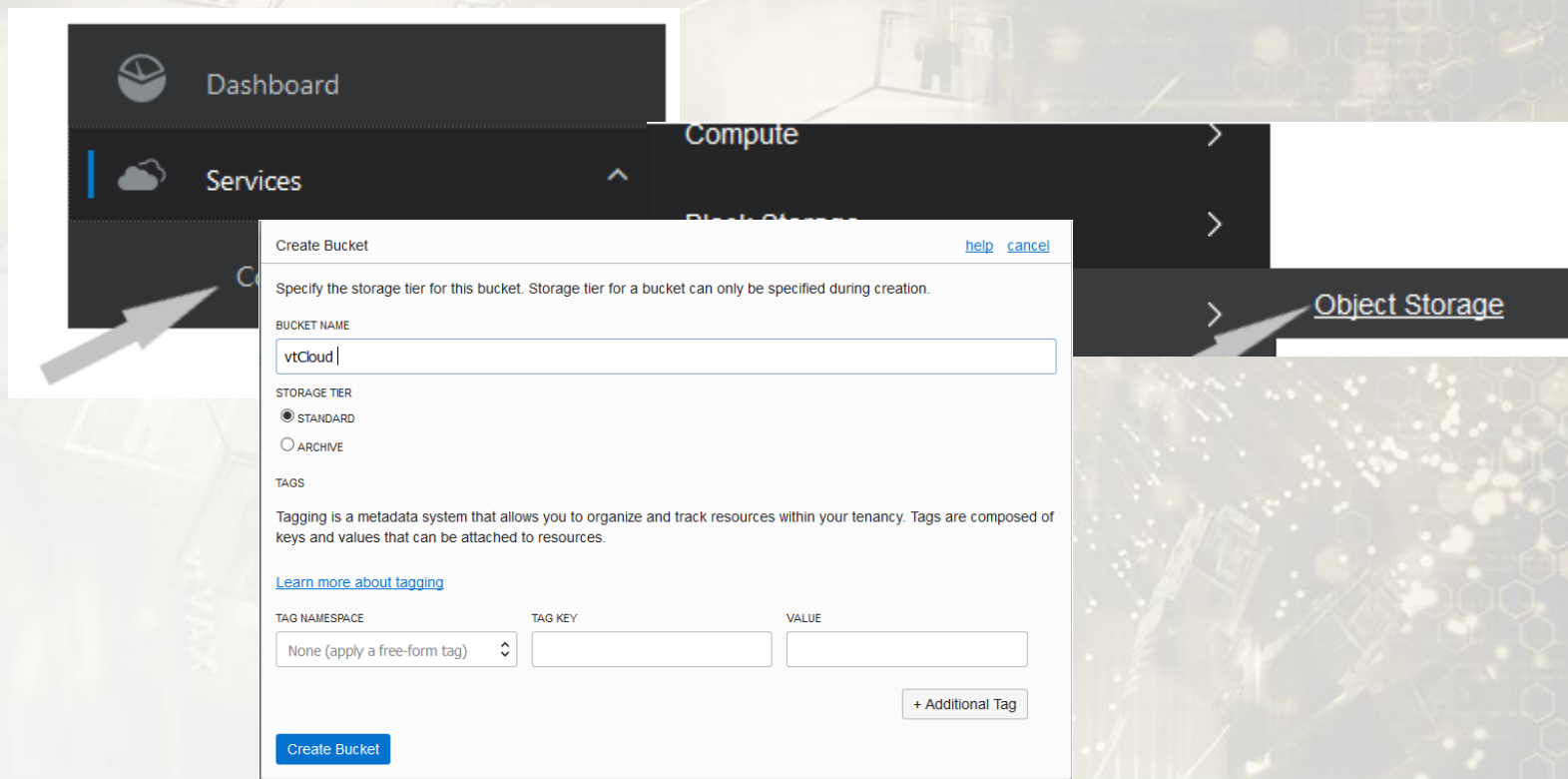
# AVTware Hybrid Cluster



# OpenVMS in Oracle Cloud

- Migrate Alpha and VAX systems to Cloud
- VMS provisioning in Oracle Cloud
- Easy to install
- Upload and configure
- Secure and cost-effective
- AVT and Oracle cooperation

# Install, Allocate Oracle Cloud



Dashboard

Services

Compute

Object Storage

[Object Storage](#)

Create Bucket [help](#) [cancel](#)

Specify the storage tier for this bucket. Storage tier for a bucket can only be specified during creation.

BUCKET NAME

vtCloud

STORAGE TIER

☒ STANDARD

☐ ARCHIVE

TAGS

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE TAG KEY VALUE

None (apply a free-form tag)

+ Additional Tag

Create Bucket



# Install, Upload AVTcloud Image

## Objects

Upload Objects

Restore

Delete

<input type="checkbox"/>	Name	Size	Status
<input type="checkbox"/>	vtCloud-Oracle.vmdk	1.38 GiB	Available
<input type="checkbox"/>	vtCloudOracle_old.vmdk	1.34 GiB	Available
0 Selected			

## Create Pre-Authenticated Request

[help](#) [cancel](#)

NAME

par-object-vtCloud-Oracle.vmdk-20190325-0856

PRE-AUTHENTICATED REQUEST TARGET

☐ BUCKET

You can only use the pre-authenticated request URL to create objects in this bucket. You cannot read from or list the objects in the bucket.

☒ OBJECT

OBJECT NAME

vtCloud-Oracle.vmdk

ACCESS TYPE

☒ PERMIT READ ON THE OBJECT

☐ PERMIT WRITES TO THE OBJECT

☐ PERMIT READS ON AND WRITES TO THE OBJECT

EXPIRATION

Apr 1, 2019 07:56 UTC



Create Pre-Authenticated Request

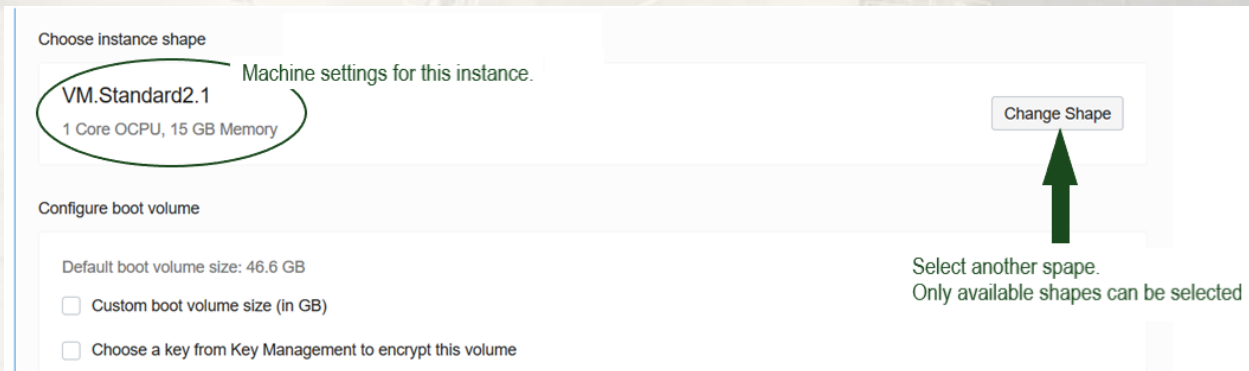
Cancel



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# Install, Configure



The screenshot displays a configuration interface for a virtual machine. It is divided into two main sections: 'Choose instance shape' and 'Configure boot volume'. In the 'Choose instance shape' section, the 'VM.Standard2.1' option is selected and circled in green. Below it, the specifications '1 Core OCPU, 15 GB Memory' are listed. To the right of this section is a 'Change Shape' button, which is pointed to by a green arrow. Below the arrow, text reads: 'Select another shape. Only available shapes can be selected.' The 'Configure boot volume' section shows a 'Default boot volume size: 46.6 GB' and two unchecked checkboxes: 'Custom boot volume size (in GB)' and 'Choose a key from Key Management to encrypt this volume'.

Choose instance shape

Machine settings for this instance.

VM.Standard2.1  
1 Core OCPU, 15 GB Memory

Change Shape

Configure boot volume

Default boot volume size: 46.6 GB

☐ Custom boot volume size (in GB)

☐ Choose a key from Key Management to encrypt this volume


Select another shape.  
Only available shapes can be selected

- Set # CPUs
- Memory Size
- Storage Size
- Create



# Install, Cloud Activation

Compute » Instances » Instance Details



RUNNING

## Arie

Create Custom Image Start Stop Reboot **Terminate** Apply Tag(s) Create Instance Configuration

**Instance Information** Tags

### Instance Information

<b>Availability Domain:</b> SraN:US-ASHBURN-AD-3	<b>Image:</b> <a href="#">vtCloud-756</a>
<b>Fault Domain:</b> FAULT-DOMAIN-1	<b>OCID:</b> ...c4dyva <a href="#">Show</a> <a href="#">Copy</a>
<b>Region:</b> iad	<b>Launched:</b> Thu, 25 Apr 2019 11:05:55 GMT
<b>Shape:</b> VM.Standard2.2	<b>Compartment:</b> hpc_limited_availability_d (root)/vmstesting
<b>Virtual Cloud Network:</b> <a href="#">vcn20190409132042</a>	<b>Launch Mode:</b> EMULATED
<b>Maintenance Reboot:</b> -	

### Primary VNIC Information

<b>Private IP Address:</b> 10.0.2.13	<b>Internal FQDN:</b> Unavailable
<b>Public IP Address:</b> <a href="#">129.213.87.120</a>	<b>Subnet:</b> <a href="#">Public Subnet SraN:US-ASHBURN-AD-3</a>

*This Instance's traffic is controlled by its firewall rules in addition to the associated [Subnet's](#) Security Lists.*



# Install, Setup License Server

Host Cloud Network Users License Logging User: zeus v4.0.1-50 build 757

Status	ID	Status	ID	IP address	Port	Keys	Up since	vtServer IP	Hostname	Description
CONNECTED	vpn_12	CONNECTED	vpn_10	132.145.43.141	1194		15-Apr-2019 13:59:04	192.168.5.182	Cloud-5.avtware.com	Cloud-5
CONNECTED	vpn_8	CONNECTED	vpn_11	129.213.83.226	1194		23-Apr-2019 21:45:52	192.168.5.178	Cloud-3.avtware.com	Cloud-3
CONNECTED	vpn_6	CONNECTED	vpn_12	129.213.87.120	1194		25-Apr-2019 15:41:15	192.168.5.160	vtCloud.avt	Arie
CONNECTED	vpn_11	CONNECTED	vpn_6	129.213.26.134	1194		15-Apr-2019 10:44:18	192.168.5.147	Cloud-2.avtware.com	Cloud-2
CONNECTED	vpn_9	CONNECTED	vpn_8	129.213.18.129	1194		15-Apr-2019 10:04:27	192.168.5.194	Cloud-1.avtware.com	Cloud-1
CONNECTED	vpn_10	CONNECTED	vpn_9	132.145.37.111	1194		15-Apr-2019 13:59:33	192.168.5.126	Cloud-4.avtware.com	Cloud-4

Server address: 129.213.87.120

Port: 1194

Description: Ariel

OK Cancel

# Install Completed – Start Using



**< 10 min  
+ upload time**

[avtware.com](http://avtware.com)

[avtware.com/vlog](http://avtware.com/vlog)

[@avtware](https://twitter.com/avtware)

[info@avtware.com](mailto:info@avtware.com)