

Horizon DaaS Platform 6.1

Direct ESXi to vCenter Migration

A VMware Technical Note

This document describes the procedure for migrating Desktop Hosts and Tenants managed directly by ESXi (i.e. without vCenter) to vCenter management.

September 2014

vmware[®]

Revision History

Date	Version	Description
09/16/2014	DRAFT 1	First draft
10/14/2014	DRAFT 2	Removed product branding, except for title page

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Introduction

Purpose

Before the 6.1 release, the DaaS platform supported two methods of configuring ESXi hosts: they could be configured directly in the platform or they configured to be managed through a vCenter instance. Since the direct management of hosts is no longer supported, service providers must migrate all hosts directly managed by ESXi to vCenter management. This document outlines the migration procedures.

Audience

The intended audience for this document is the service provider resource that is responsible for performing the migration of one or more tenants from a direct ESXi configuration to a vCenter configuration.

Assumptions

This document assumes that the following configuration is currently in place. If your configuration differs, contact the VMware support team before proceeding with the migration.

- Each tenant is configured with one or more ESXi desktop hosts.
- The ESXi desktop hosts configured within the DaaS platform are managed by a vCenter server.
- The ESXi desktop hosts exist within a single vCenter Datacenter.
- The tenants that are configured within a single vCenter instance do not span multiple DaaS resource managers (there is a one-to-one mapping of vCenter instances to resource managers).
- The ESXi desktop hosts are not shared across multiple tenants (i.e. dedicated hosts per tenant).

Impact on Tenant

The impact of this migration on the tenant should be minimal. There may be a period of time (between the removal of the host from the tenant and its re-assignment to the vCenter) where the tenant will not see any virtual machines in its inventory. If this occurs, users logging into the Desktop Portal (or using the VMware View Client) will see an error indicating that there are no available desktops in the pools to which they are mapped. This condition could last for up to 5 minutes until the next inventory refresh.

Before You Begin

Before you start the migration process, do the following.

- Perform a backup of the Fabric database (FDB) on the Primary Service Provider appliance:
`/usr/local/Horizon DaaS/scripts/backup_db.sh`
- Perform a backup of the Element database (EDB) on each Tenant's Primary appliance.
- Create a VMware Snapshot of the Service Provider and Tenant Appliances.

Migrating Management Hosts

Procedure

1. Stop the dtService on all org 1000 appliances:

```
service dtService stop
```

2. Delete the hypervisor manager record from the database:

```
SELECT * from hypervisor_host;
*Save output
DELETE from hypervisor_host where address='<NAME of management host>';
```

3. Clean up any discovered storage mount points:

```
SELECT * from storage_config;
* Save output
DELETE from storage_config where remote_mount_point='<management remote mount
poted>';
SELECT * from storage_system;
*Save output
DELETE from storage_system where address='<address of management storage>';
```

4. Start the dtService on SP1 node:

```
service dtService start
```

5. If it comes up successfully, then bring remaining SP appliances up.
6. Rediscover the ESXi hypervisors as part of discovering the Management vCenter. This rediscovery causes all compute resources (cluster and non-cluster) to be temporarily assigned to org1000.

In Service Center, select **service grid** and navigate to the **Compute Resources** tab to reassign all of the compute resources you do not want assigned to the management appliances.

Migrating Desktop Hosts

Migrating the First Tenant

Before you begin, record the following information for the tenant:

- The quota settings for this tenant.
(screenshot)
- The number of desktops running for this tenant.
- The hostname/IP of the ESXi host(s) currently assigned to the tenant.
- The CPU and Memory over-allocation ratio assigned to each host.
- The name of the DaaS Resource Manager to which this tenant is assigned.

Procedure

1. Select **service grid ► resources ► Desktop Managers**
2. Select the tenant being migrated.
3. Select the **Storage** tab and remove the storage configuration.
4. Select the **Hosts** tab and remove the assigned host(s).
5. Click **service grid** at the top of the page.
6. Expand the Hosts section and remove the host you removed in Step 4.
7. Expand the Hosts section and click **Add Host**.

8. Enter the credentials for the vCenter being added (these must be administrative credentials).
9. Select the Resource Manager that manages the tenants.
10. Click **OK**.
11. Select the vCenter Datacenter where the desktop hosts are configured.
12. Click **OK**.
13. Select **service grid ► resources ► Desktop Managers**
14. Select the tenant being migrated.
15. Select the **Hosts** tab.
16. Under Available Hosts, click **Assign** next to the vCenter server that will be used for this tenant.
17. Select the host(s) that is hosting this tenant's desktops.
18. Configure the desired CPU and memory over-allocation ratio for each host and click **Save**.
19. Re-configure the tenant's quota as captured in Step 1.

Migrating Additional Tenants

Before you begin, record the following information for the tenant:

- The quota settings for this tenant.
(screenshot)
- The number of desktops running for this tenant.
- The hostname/IP of the ESXi host(s) that are currently assigned to the tenant.
- The CPU and Memory over-allocation ratio assigned to each host.
- The name of the DaaS Resource Manager to which this tenant is assigned.

Procedure

1. In Service Center, select **service grid ► resources ► Desktop Managers**
2. Select the tenant being migrated.
3. Select the **Storage** tab and remove the storage configuration.
4. Select the **Hosts** tab and remove the assigned host(s).
5. Click **service grid** at the top of the page.
6. Expand the Hosts section and remove the host(s) you removed in Step 4.
7. Select the vCenter that is managing the host(s).
8. On the **General** tab, click **Update Host**.
9. Confirm that the host(s) you removed in Step 6 now appears under the vCenter.
10. Select **service grid ► resources ► Desktop Managers**.
11. Select the tenant being migrated.
12. Select the **Hosts** tab.

13. Under Available Hosts, click **Assign** next to the vCenter server that will be used for this tenant.
14. Select the host(s) that is hosting this tenant's desktops.
15. Configure the desired CPU and memory over-allocation ratio for each host and click **Save**.
16. Re-configure the tenant's quota as captured in Step 1.

Validating the Migration

Procedure

1. Test that each tenant desktops accessible via its Desktop Portal.
2. Confirm that the number of desktops for the tenant has not changed.
3. Confirm that in Enterprise Center pools show online virtual desktops.
4. Test that new pools can be created.

Rollback Procedure

If there are issues following this migration, confirm that you have not missed a step and that the correct host(s) is assigned to the tenant. If you are unable to determine the problem, revert the VMware snapshots that you created before you began the maintenance.

If you still experience issues, contact VMware Global Support.