



Migration Guide for System Center Virtual Machine Manager Self-service Portal 2.0 SP 1

Microsoft Corporation

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Applies To

System Center Cloud Services Process Pack

Feedback

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Revision History

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Contents

[Overview 1](#_Toc323928175)

[Data Hierarchy 1](#_Toc323928176)

[Data that is Migrated 2](#_Toc323928177)

[Data that not Migrated 2](#_Toc323928178)

[Prerequisites 2](#_Toc323928179)

[Permissions 2](#_Toc323928180)

[Preparing to Migrate 2](#_Toc323928181)

[Plan VMM User Roles 2](#_Toc323928182)

[Prepare the Destination Server 3](#_Toc323928183)

[Prepare the Virtual Machine Manager Server 3](#_Toc323928184)

[Install the Migration Tool 3](#_Toc323928185)

[Running the Migration Tool 4](#_Toc323928186)

[Migration Wizard 4](#_Toc323928187)

[Post-Migration Tasks 17](#_Toc323928188)

[Verify Migration 17](#_Toc323928189)

[Associate Virtual Machines with Cost Centers 17](#_Toc323928190)

# Overview

The goal of migration tool is to support IT service management in migrating System Center Virtual Machine Manager 2008 R2 Self-Service Portal 2.0 SP1 data to System Center Service Manager 2012.

This document provides guidance for migrating the business unit, service and VMM data from the System Center Virtual Machine Manager 2008 R2 Self-Service Portal 2.0 SP1 to the System Center Service Manager 2012 database.

For more information on System Center Virtual Machine Manager 2008 R2 Self-Service Portal 2.0 SP1, see <http://technet.microsoft.com/en-us/library/gg588342.aspx>.

Warning

The Cloud Services Process Pack can be modified in Service Manager. If the process pack model (tenant, cloud resources subscription or configuration items template) is modified, then the migration tool might not work.

Warning

The migration tool can be used more than once. The migration tool will allow previously assigned virtual machines to be assigned to additional cloud resources subscriptions. If you use the migration tool more than once, make sure that you do not assign the virtual machines to the multiple cloud resources subscriptions.

## Data Hierarchy

The Cloud Services Process Pack data hierarchy has fewer layers than the VMMSSP SP1 data hierarchy. As a result, all data in VMMSSP SP1 is not migrated to the process pack database.

The following figure shows an example of the data hierarchies and which data is migrated.



Figure 1. Example of data hierarchies

## Data that is Migrated

The following data is migrated:

* Business Unit
* Service
* Virtual Machines
* Business Unit Administrator
* Business Unit Users

## Data that not Migrated

The following list is an example of data that is not migrated:

* Infrastructure
* Service Role
* DCIT administrators

# Prerequisites

## Permissions

The account used to run the migration wizard should have the following roles:

* Local Administrator on the Virtual Machine Manager Self-service Portal 2.0 database Server
* Owner of the Virtual Machine Manager Self-service Portal 2.0 database (DITSC)
* Administrator in Service Manager

# Preparing to Migrate

Before you begin the migration, you must complete these tasks. You will not be able to complete migration without preparing the servers prior to running the migration wizard.

## Plan VMM User Roles

Before migrating you will need to create a plan on how your configuration will handle user roles. With that information, you will need to create self-service user roles in VMM before running the Migration Wizard.

## Prepare the Destination Server

* Install and configure System Center 2012 – Service Manager.
* Install and configure the System Center Cloud Services Process Pack.
* Create a Tenant Administrator user role and a Cloud Resources Subscription user role and configure user roles in the general properties.
* Create the cost centers that will be used when migrating the Business Unit.

For procedures on how to prepare the destination server, see the Cloud Services Process Pack Administration Guide at <http://go.microsoft.com/fwlink/?LinkId=251874>.

## Prepare the Virtual Machine Manager Server

1. Upgrade virtual machines and templates from Virtual Machine Manager 2008 R2 to Virtual Machine Manager 2012.
2. Create clouds in Virtual Machine Manager and associate the Virtual Machines to be migrated with the appropriate cloud.
3. Create the Virtual Machine Manager self-service user role for the cloud. Then, get the Virtual Machine Manager self-service user role guid that is created for the cloud by running Virtual Machine Manager Power Shell Commandlet get-scuserrole -name "<VMM User role name>". This will be used for the cloud services subscription that is created during migration.

* **Important**

After the destination and virtual machine manager servers have been prepared, you must synchronize the System Center 2012 – Virtual Machine Manager (VMM) connector with System Center 2012 – Service Manager.

## Install the Migration Tool

The System Center Cloud Services Process Pack migration tool should be run from the server with the VMMSSP2.0 engine component.

* Copy VMMSSP2SP1Migration.exe from the zip file to the VMMSS2.0 engine machine.

# Running the Migration Tool

Use this procedure to run the System Center Cloud Services Process Pack migration tool.

1. Right-click VMMSSP2SP1Migration.exe and select **Run As Administrator**.
2. Click **Unzip** to extract the files and click **Ok**
3. Go to the extracted location
4. Open the folder VMMSSP2SP1Migration and run VMMSSP2SP1Migration.exe as an administrator. This will launch the Cloud Services Migration Wizard.

## Migration Wizard

Use this procedure to complete the Cloud Services Migration Wizard.

1. On the Before You Begin page, click Next.

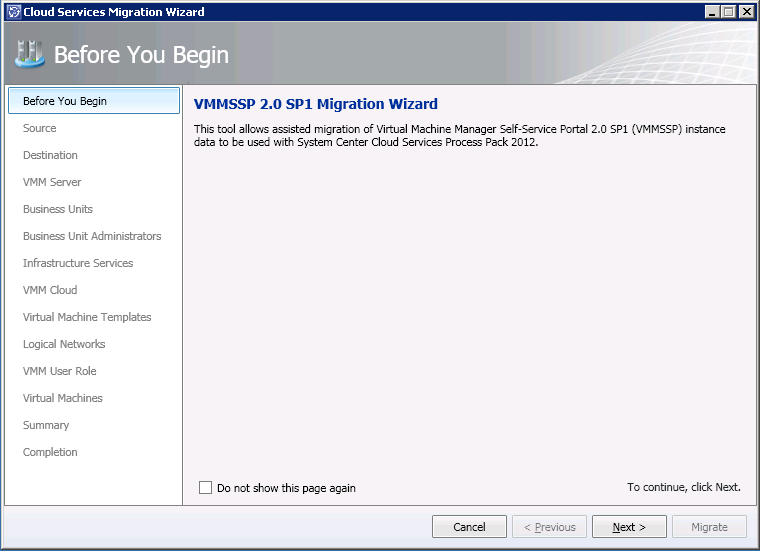


Figure 1. Cloud Services Migration Wizard

1. On the **Source** page type the Virtual Machine Manager 2008 R2 Self-Service Portal 2.0 SP1 **Database Server** name and then click **Get instances.**
2. Select the instance that has the Virtual Machine Manager 2008 R2 Self-Service Portal 2.0 SP1 database from the **SQL Server instance** drop-down box.
3. Select the appropriate authentication method and then click **Next.**

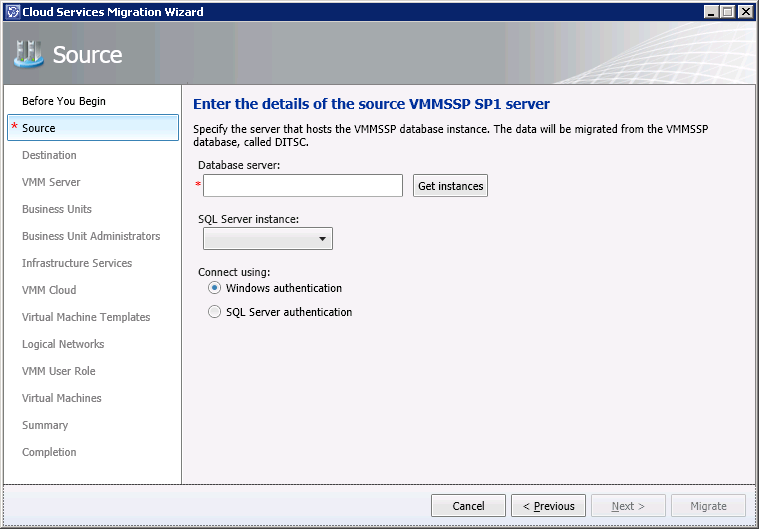


Figure 2. Source

1. On the Destination page, type name of the Service Manager 2012 server and click **Next**.

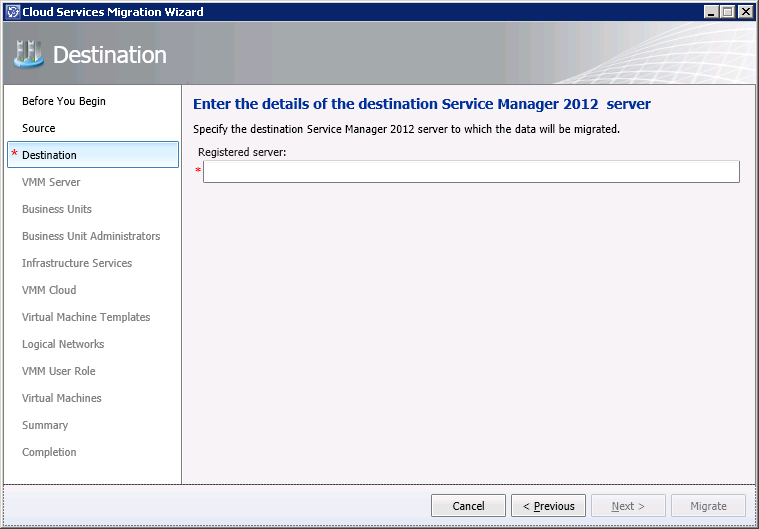


Figure 3. Destination

1. The **VMM Server** page displays the names of the Source VMM server and the Destination VMM server. If the destination field is empty, either the VMM server has not been upgraded to Virtual Machine Manager 2012 or the Virtual Machine Manager and Operations Manager connector has not been created and synchronized on Service Manager. Review the information and click **Next**.

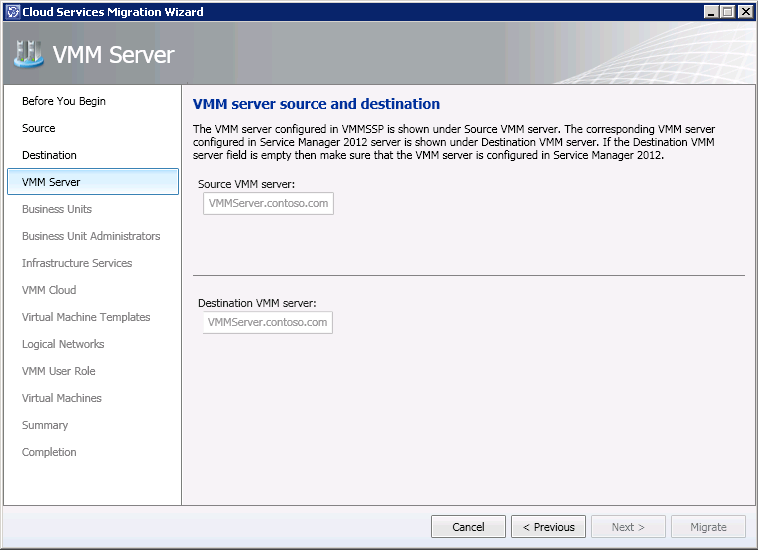


Figure 4. VMM Server Source and Destination

1. The Business Units page lists all of the business units that are available for migration. The first time that you run the migration tool you will need to create a new tenant. Then, on subsequent migrations you should migrate the additional business unit services into the existing tenant.

To migrate a business unit into a new tenant

1. Select a business unit from the **Source Business Units** list.
2. Select **Create a new tenant** and select a cost center from the **Cost center** drop-down list.
3. Click **Next**.

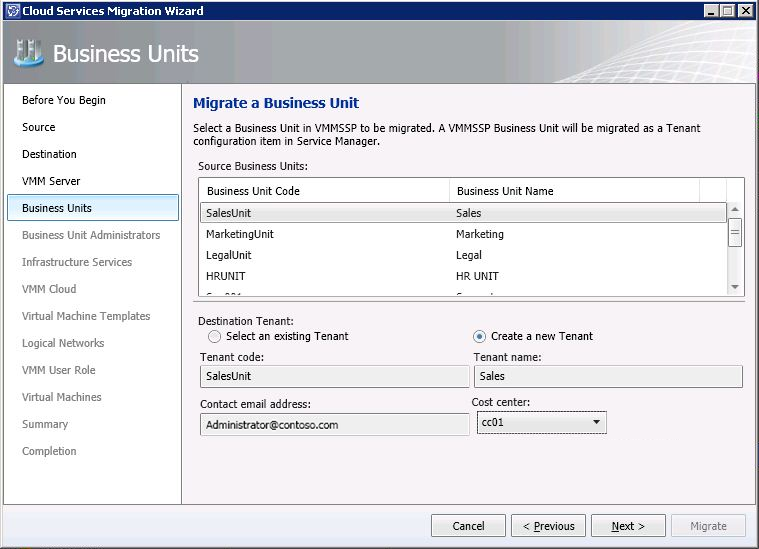


Figure 5. Migrate a Business Unit

To migrate a business unit into an existing tenant

1. Select a business unit from the **Source Business Units** list.
2. Click **Select an existing tenant** and then select the name of the existing tenant from the **Existing Tenants** drop-down list.
3. Click **Next**.

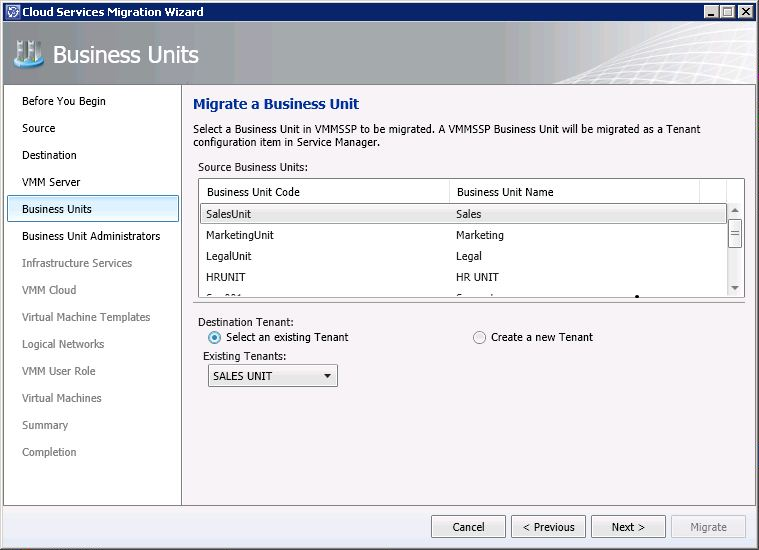


Figure 6. Migrate a Business Unit

1. On the Business Unit Administrators page, select the users who will be administrators on the migrated tenant. By default all users are selected. To edit the list, uncheck the box next to the administrator name.

Important

Selecting users is an optional step in the migration wizard. However, if users are not selected during migration, then users will need to be added from the Service Manager console.

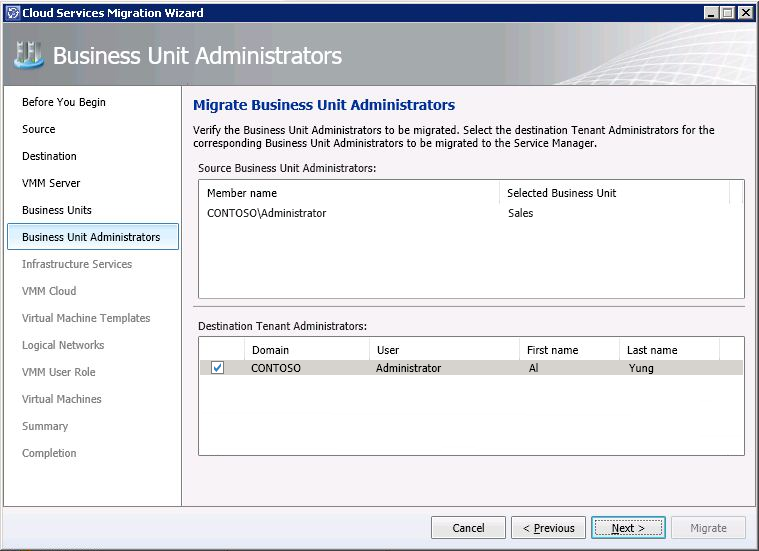


Figure 7. Migrate Business Unit Administrators

1. The Infrastructure Services page lists all of the services that are available for migration. It is important to note, only one service can be migrated each time that the migration wizard is used. If you have multiple services for each business unit, then you will need to run the migration wizard once for each service.

Warning

Previously migrated services will appear in the **Source Infrastructure Service** list. Be careful that you do not migrate the services more than once. If you migrate more than once you will create duplicate entries in Service Manager.

To migrate a service

1. Select a service from the **Source Infrastructure Service** list.
2. The **Cloud Resources Subscription name**, **Storage quota**, and **Memory quota** fields will be automatically populated. You can leave these fields as they are, or you can change the values. To change the values, type new values in the fields.
3. Type the number of virtual machines and Virtual CPUs that you want to assign to the cloud resources subscription.
4. Click **Next**.

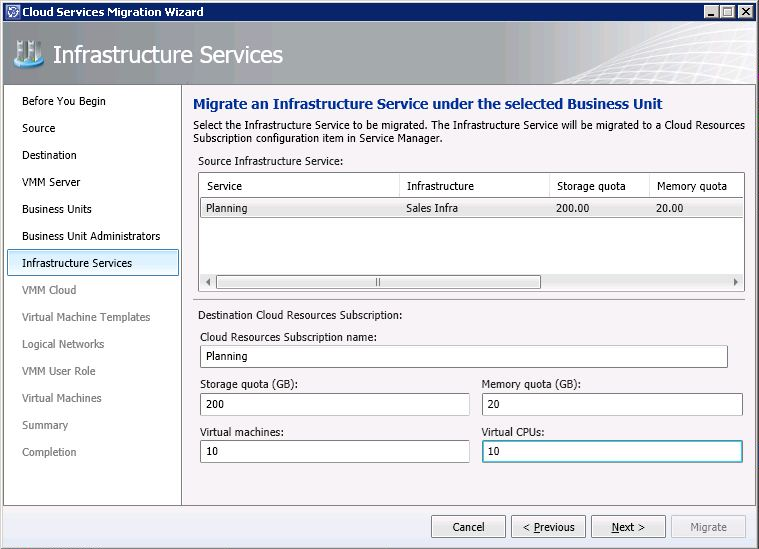
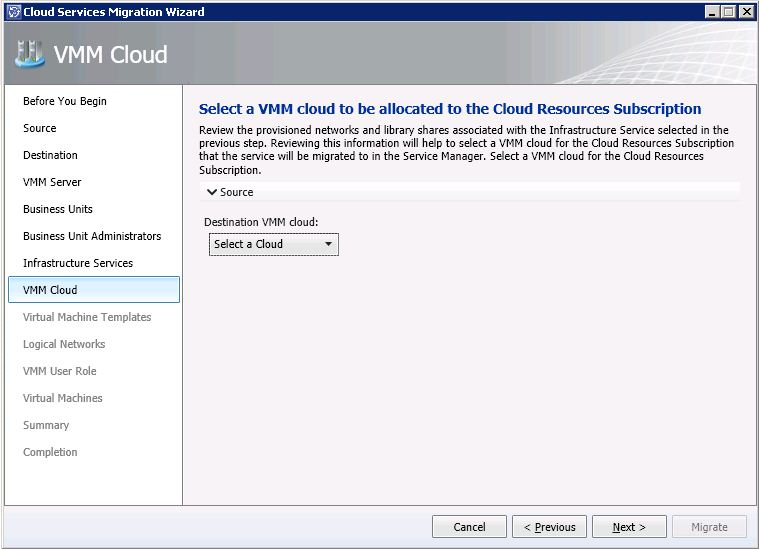


Figure 8. Infrastructure Services

1. The **VMM Cloud** page displays details about source provisioned networks and library shares. Click **Source,** review the details, select the appropriate destination VMM cloud and click **Next**.

The **Destination VMM cloud** drop-down box is populated when the System Center 2012 – Operations Manager CI connector is synchronized with System Center 2012 – Service Manager.



Click Source to view the details.

Figure 9. VMM Cloud

1. The **Virtual Machine Templates** page displays all of the templates that are configured for the service on the **Source Provisioned VM Templates** list. To add templates, select the templates from the **Destination VM Templates** list, and then click **Next**.

Important

Selecting templates is an optional step in the migration wizard. However, if templates are not selected during migration, then templates will need to be added from the Service Manager console before the cloud resources subscription can be used.

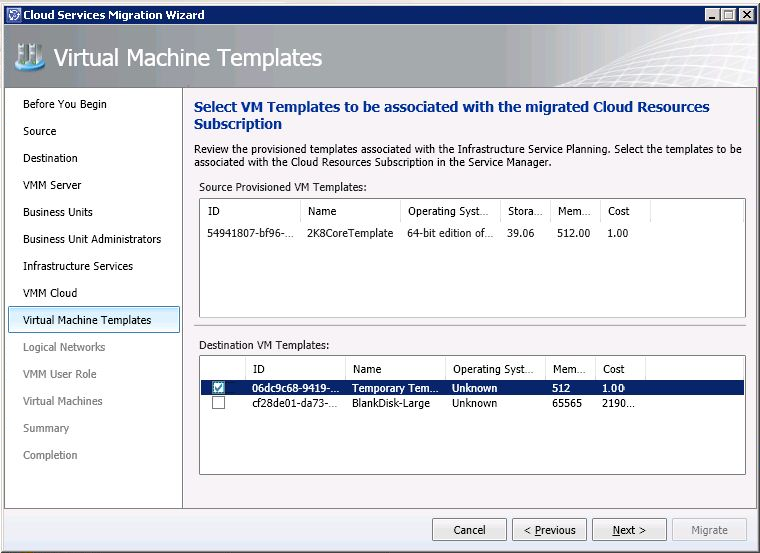


Figure 10. Virtual Machine Templates

1. The **Logical Networks** page displays all of the networks that are configured for the service on the **Source Provisioned Networks** list. To add networks, select the networks from the **Destination Logical Networks** list, and then click **Next**.

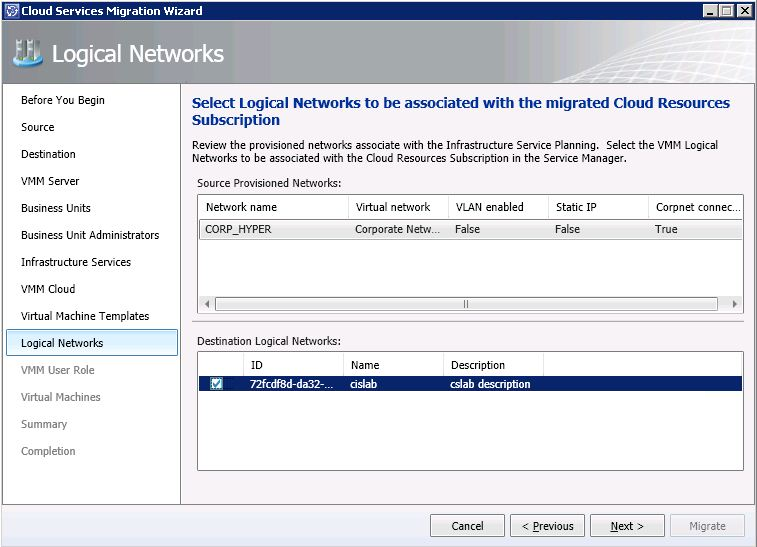


Figure 11. Logical Networks

1. The **VMM User Role** page displays the users that are assigned to the service that was selected for migration on the **Source Infrastructure Service Users** list. Type the **VMM User Role Name** and **VMM User Role GUID** of the user role that was created for the cloud. To edit the list, uncheck the box next to the **Destination Cloud Resources Subscription** user name.

To get the Virtual Machine Manager self-service user role GUID that is created for the cloud by running Virtual Machine Manager, use the Power Shell Commandlet get-scuserrole -name "<VMM User role name>".

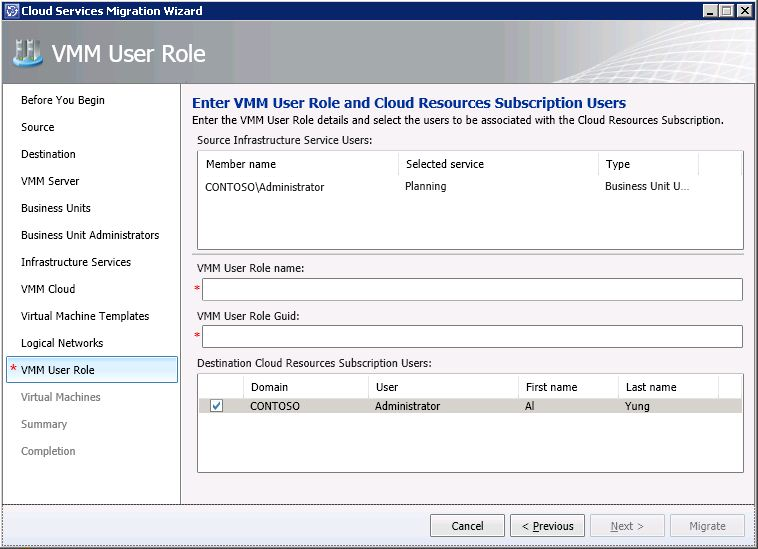


Figure 12. VMM User Role

1. On the **Virtual Machines** page, by default all of the destination virtual machines will be displayed for the source. To select the Destination Virtual Machine, check the box next to the virtual machine name. Multiple machines can be selected.

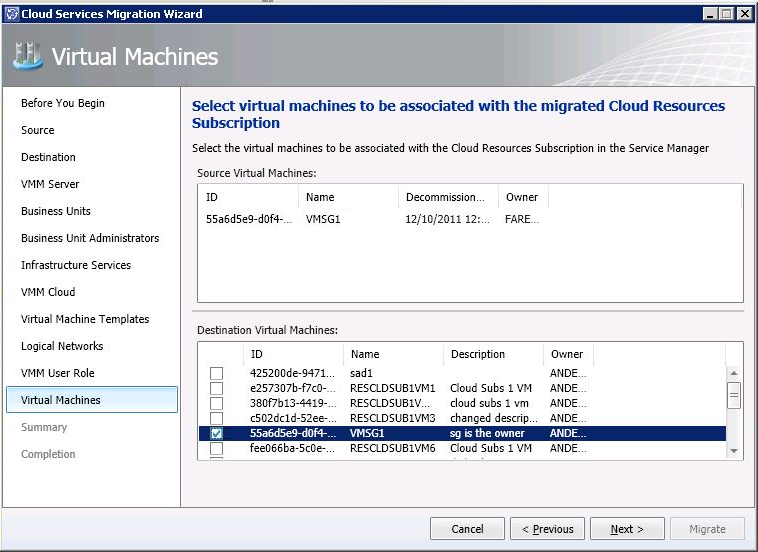


Figure 13. Virtual Machines

1. On the **Summary** page, review the information and click **Migrate**.
2. On the **Completion** page, click **Close**.

# Post-Migration Tasks

## Verify Migration

After you have migrated data you should verify that the migration has been successful.

To verify migration

1. In the Service Manager console, click Configuration Items, click Cloud Services, click Tenants and then click Active Tenants.
2. View the Active Tenants list.
3. Select the migrated tenant from Active Tenants list and then click **Edit**.
4. Verify that your data has been migrated.

## Associate Virtual Machines with Cost Centers

Migrated virtual machines are not associated with cost centers. If you plan to use cost centers for billing or to run reports on virtual machines by cost center, then you may want to associate migrated virtual machines with cost centers.

To associate virtual machines with cost centers

1. In the Service Manager console, click Configuration Items, click Cloud Services, click Virtual Machines and then click Active Virtual Machines.
2. Select the virtual machine from the list of active virtual machines and then click Edit.
3. On the **General** tab, type the cost center in the **Cost Center** box and click **OK**