

Cluster migration using Cisco Prime Collaboration Deployment

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Introduction

This document describes how to perform a migration between two Cisco Unified Communications Manager (CUCM) cluster with Prime Collaboration Deployment (PCD).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software versions:

- CUCM Release 10.0 and 10.5
- PCD Release 10.5

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Background Information

Cisco PCD is a migration/upgrade application for Unified Communications applications. Using PCD, you can upgrade the version of existing Unified Communications applications or you can migrate the complete cluster to a new cluster of same or different version. This document

describes the migration procedures to CUCM 10.5 from version 10.0 where both the old and new cluster were on Unified Computing System (UCS) platform.

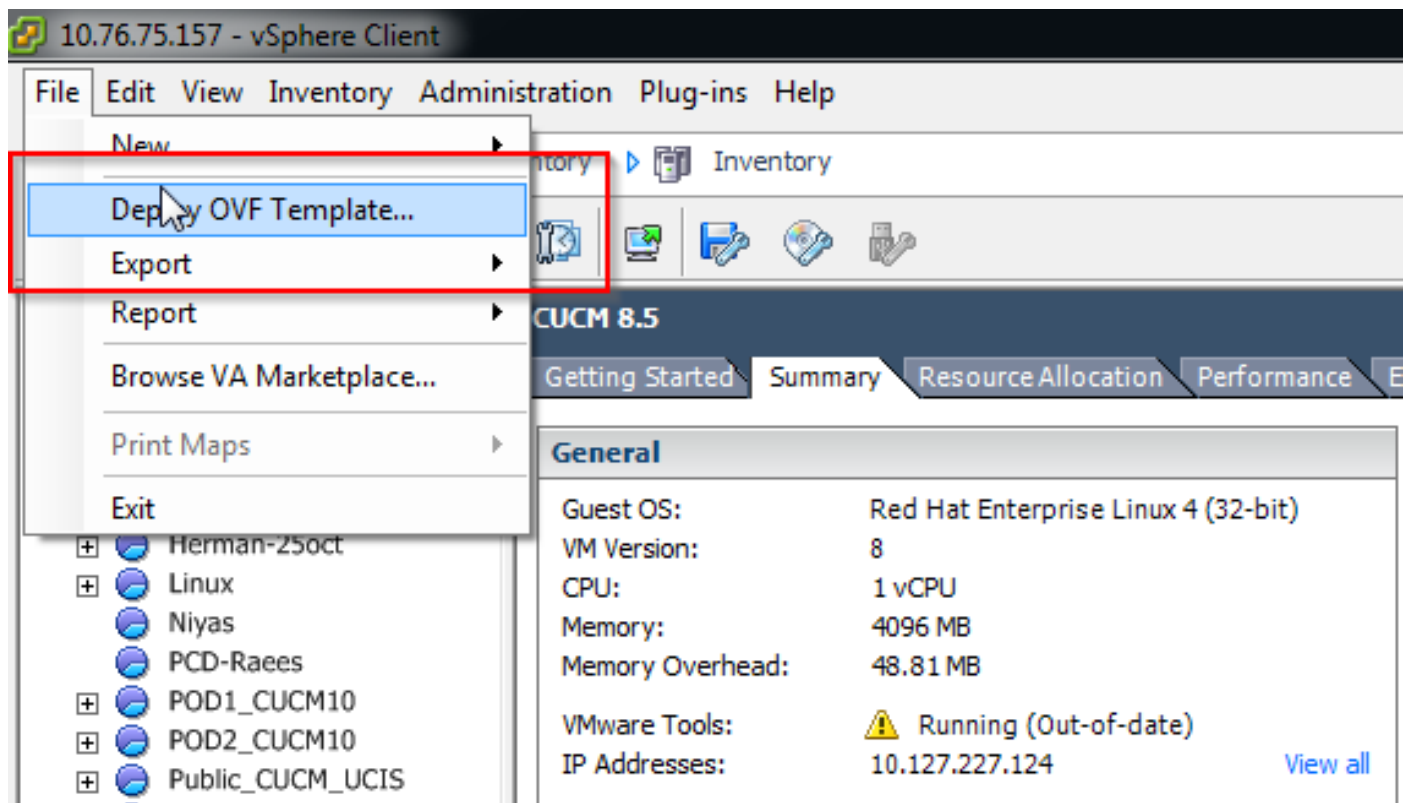
For details on supported versions, compatibility, licensing and other pre-migration checklist, refer to the link: [Migration to Cisco Unified Communications Manager Release 10.5\(1\) Using Prime Collaboration Deployment](#)

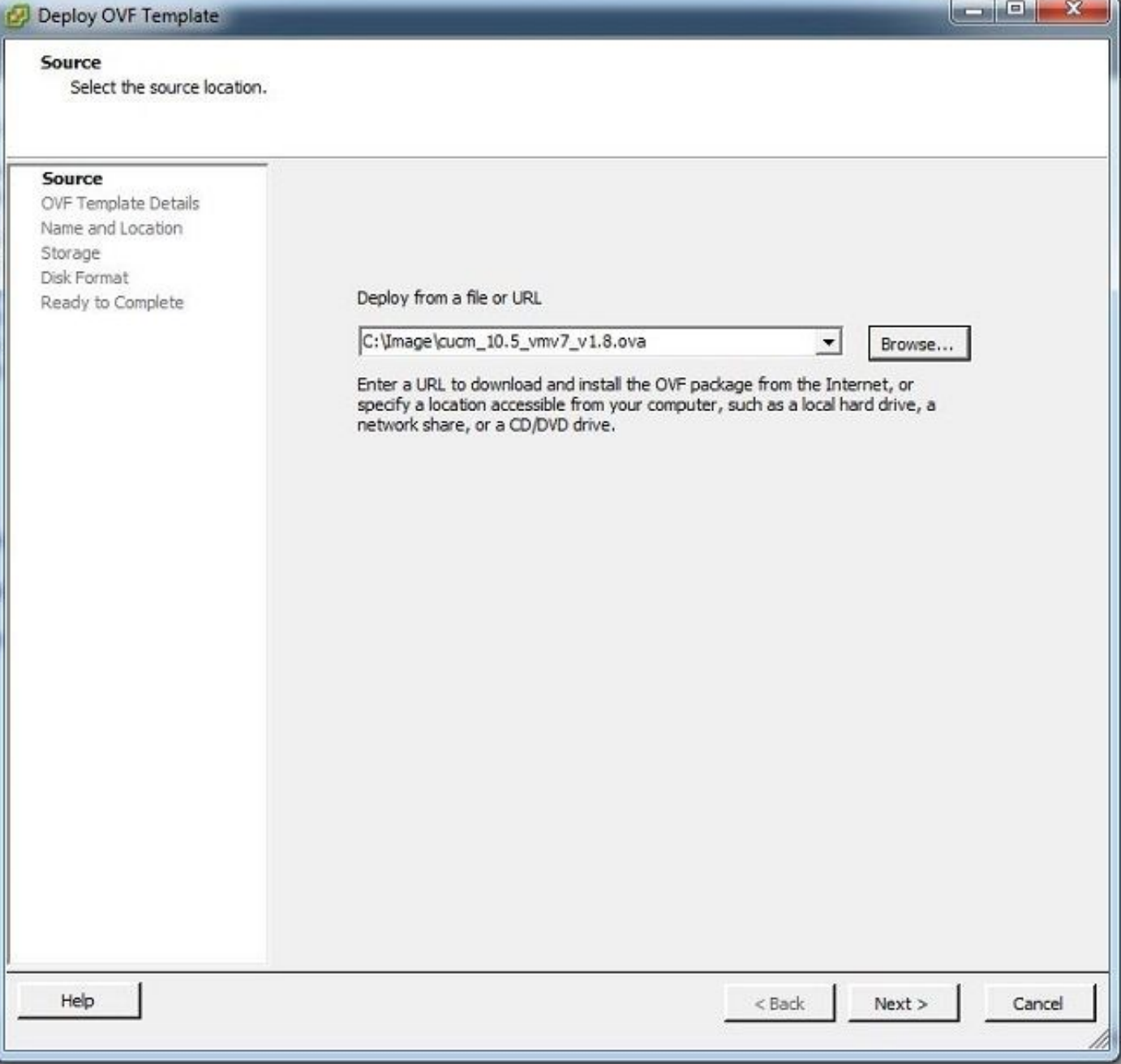
Configure

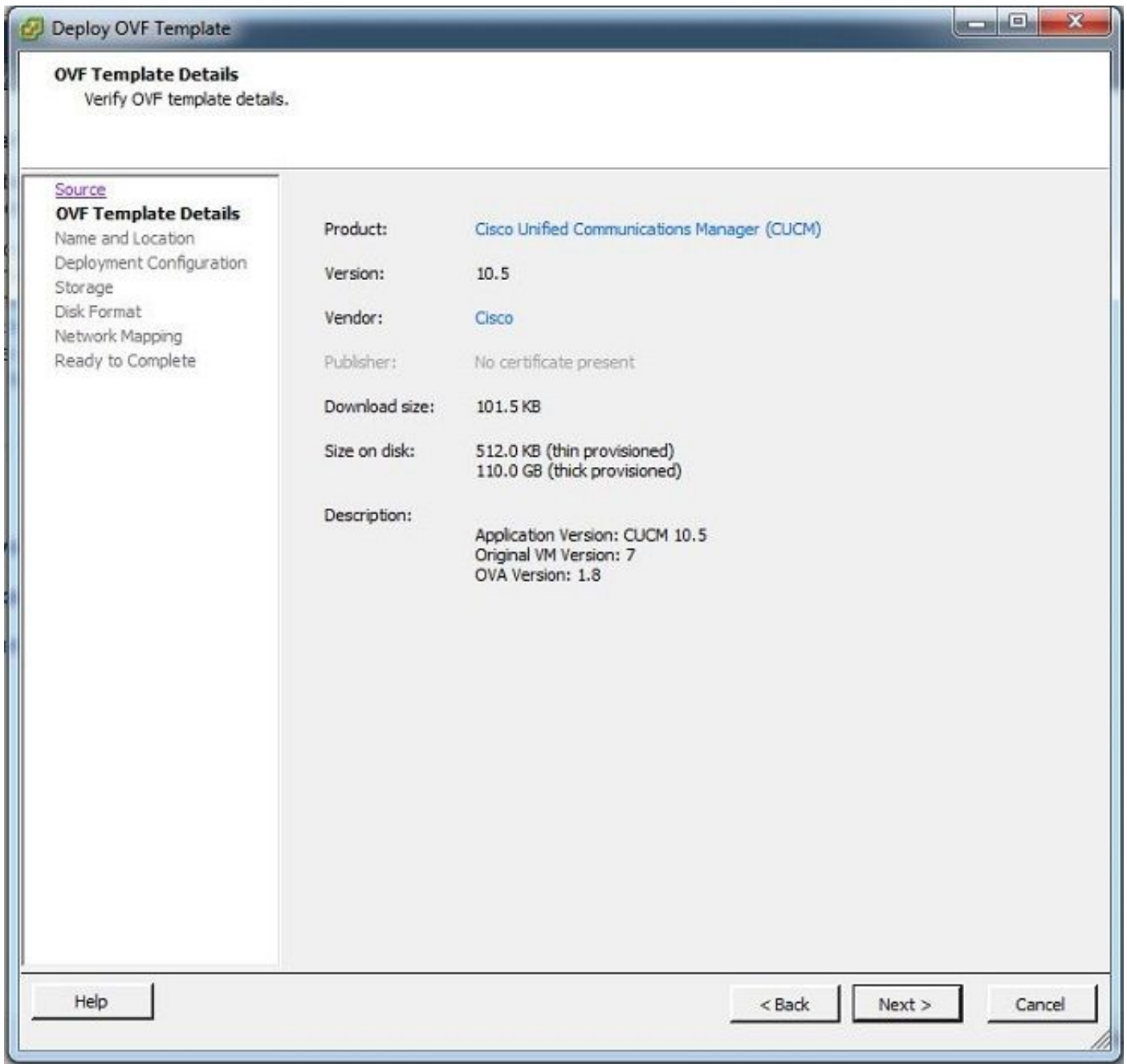
Build the destination cluster

Build the destination cluster using the correct Open Virtualization Archive (OVA) template for the specific version of the CUCM. The OVA file could be downloaded from cisco.com

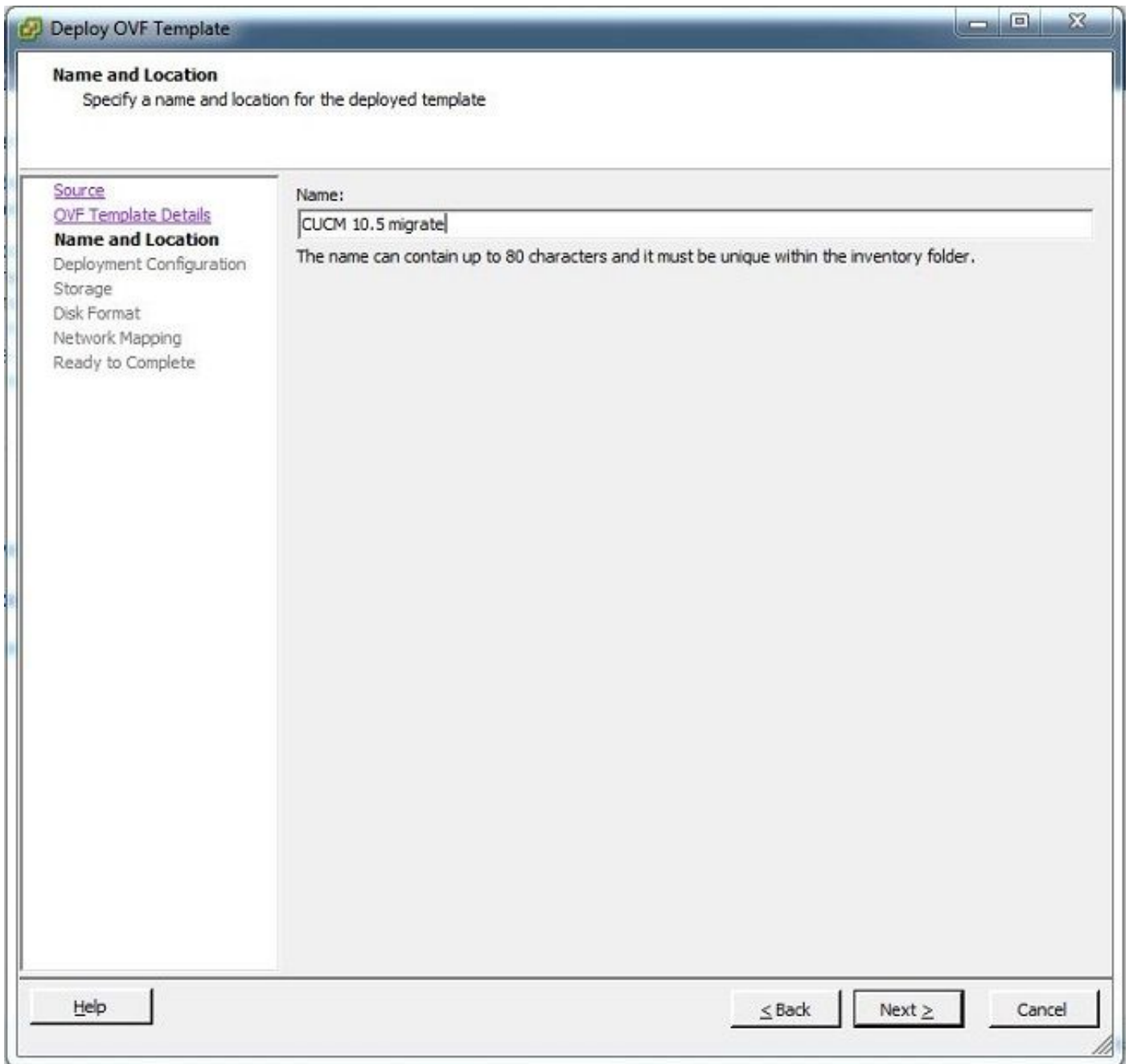
1. Deploy the OVA from the Vsphere client as shown in this image.



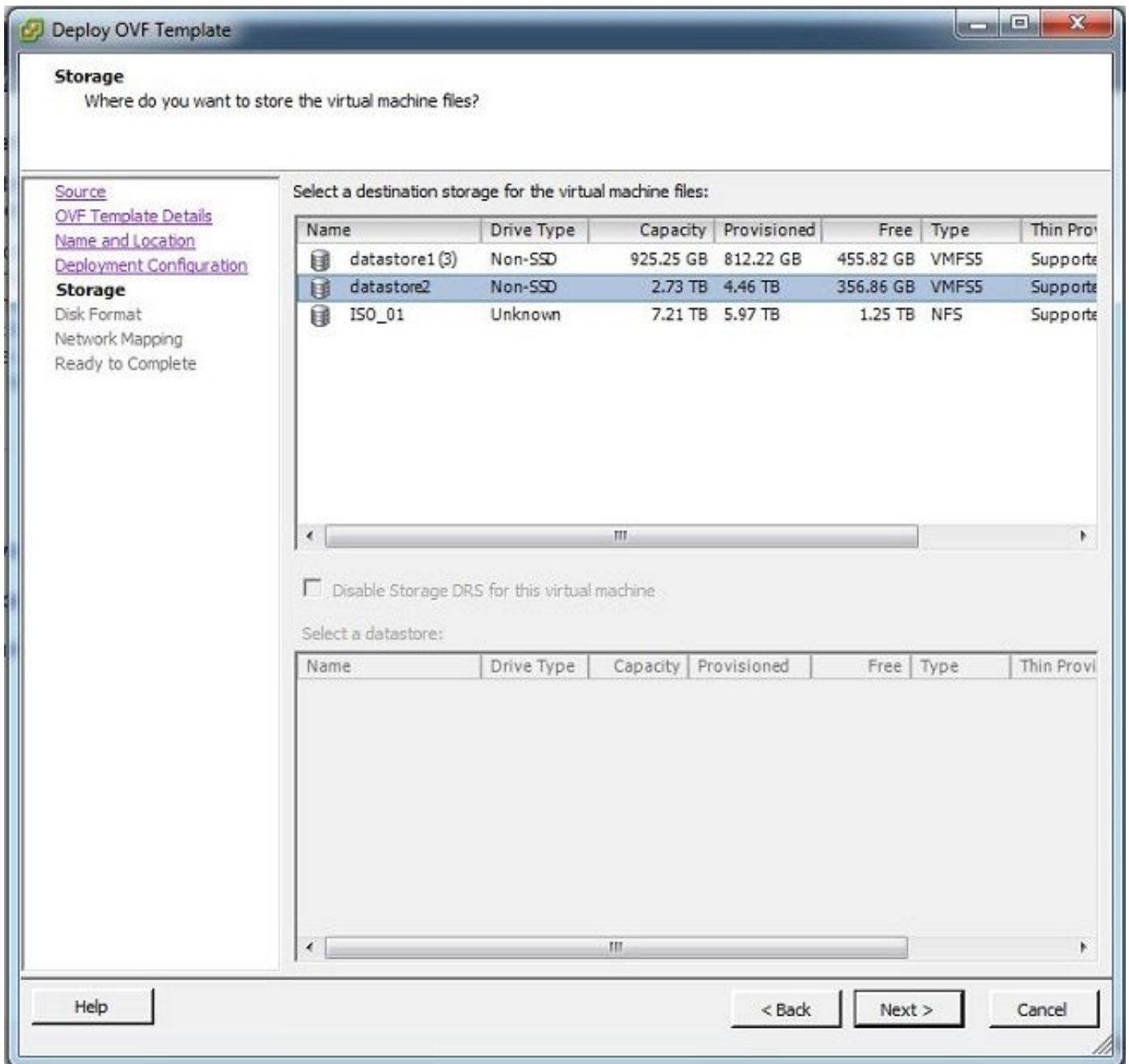




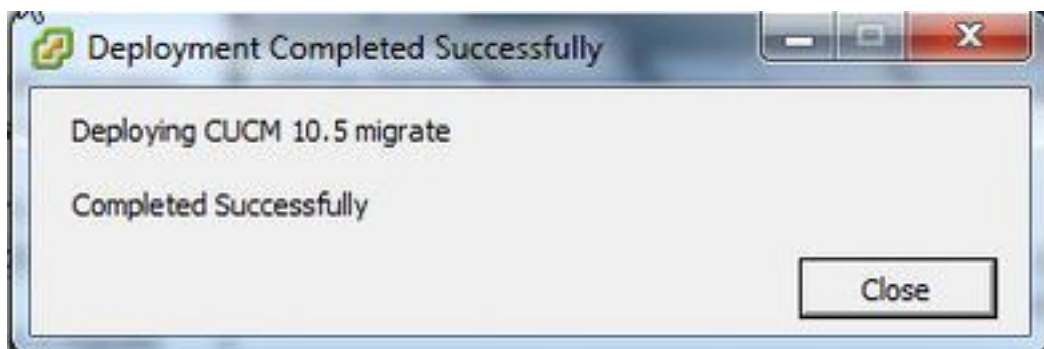
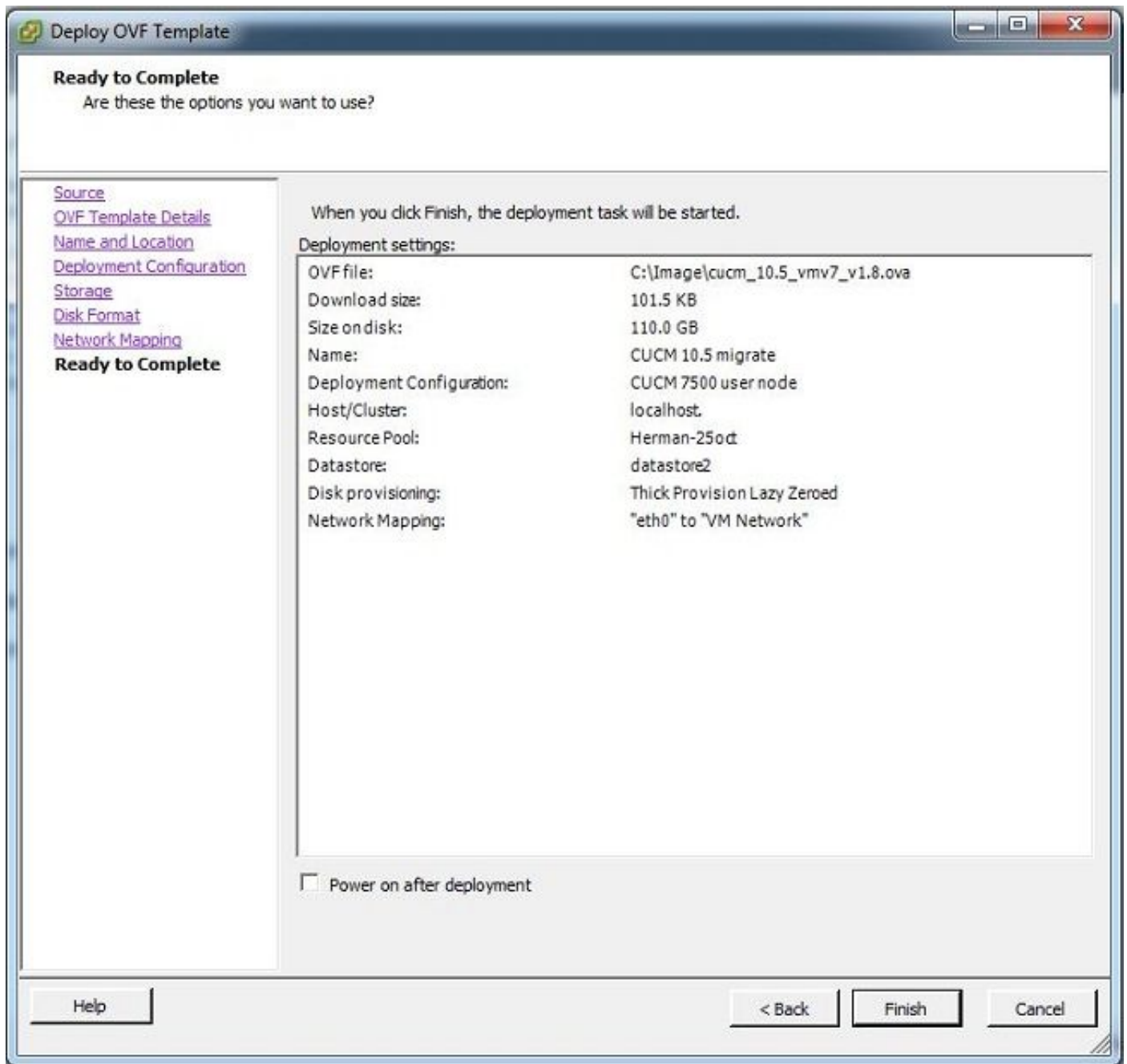
2. Specify a name for the destination cluster virtual machine.



3. Select the appropriate datastore for the storage media.



4. Verify the OVA details and click the **Finish** button.



Discover the cluster

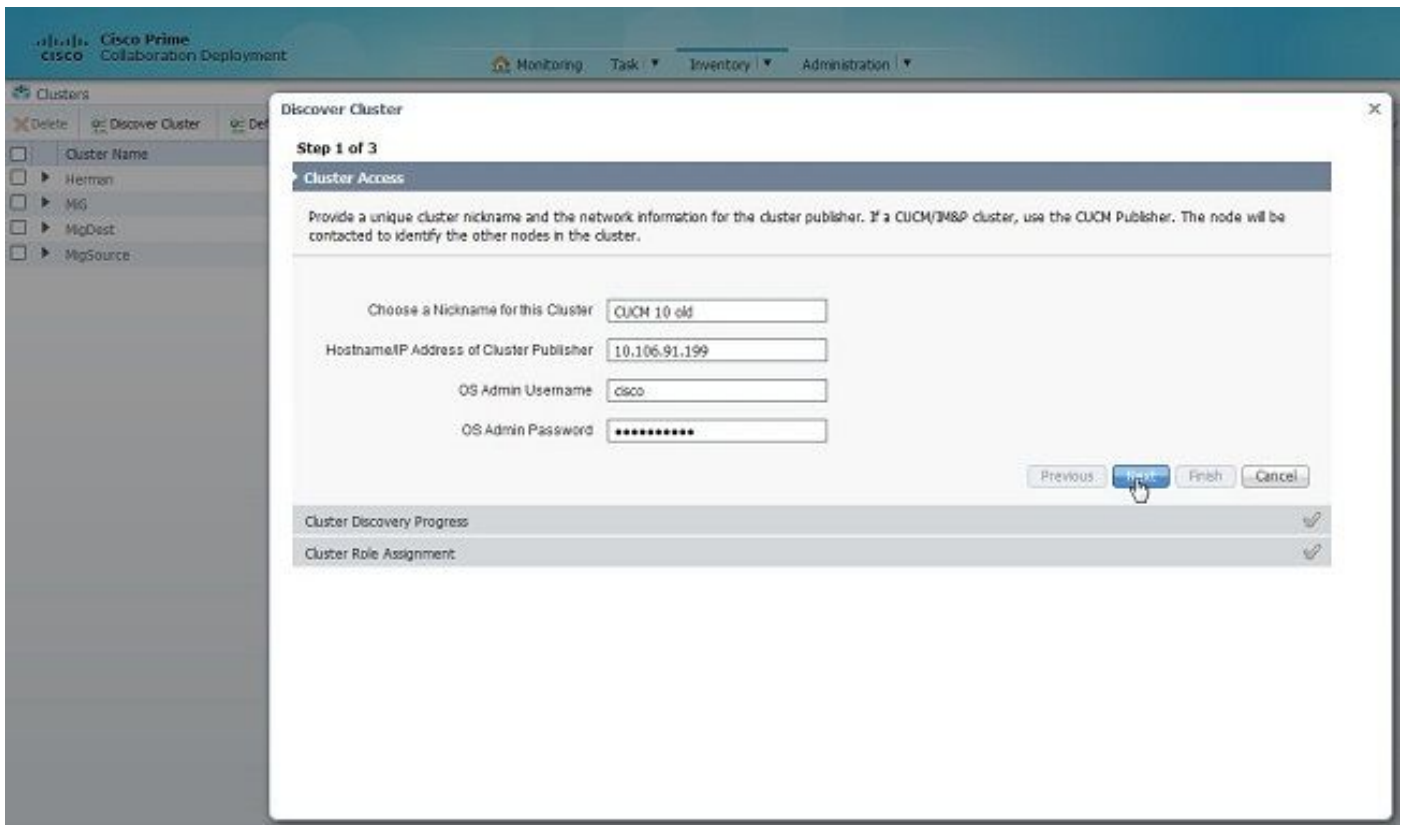
1. Log in to the GUI of the PCD tool.



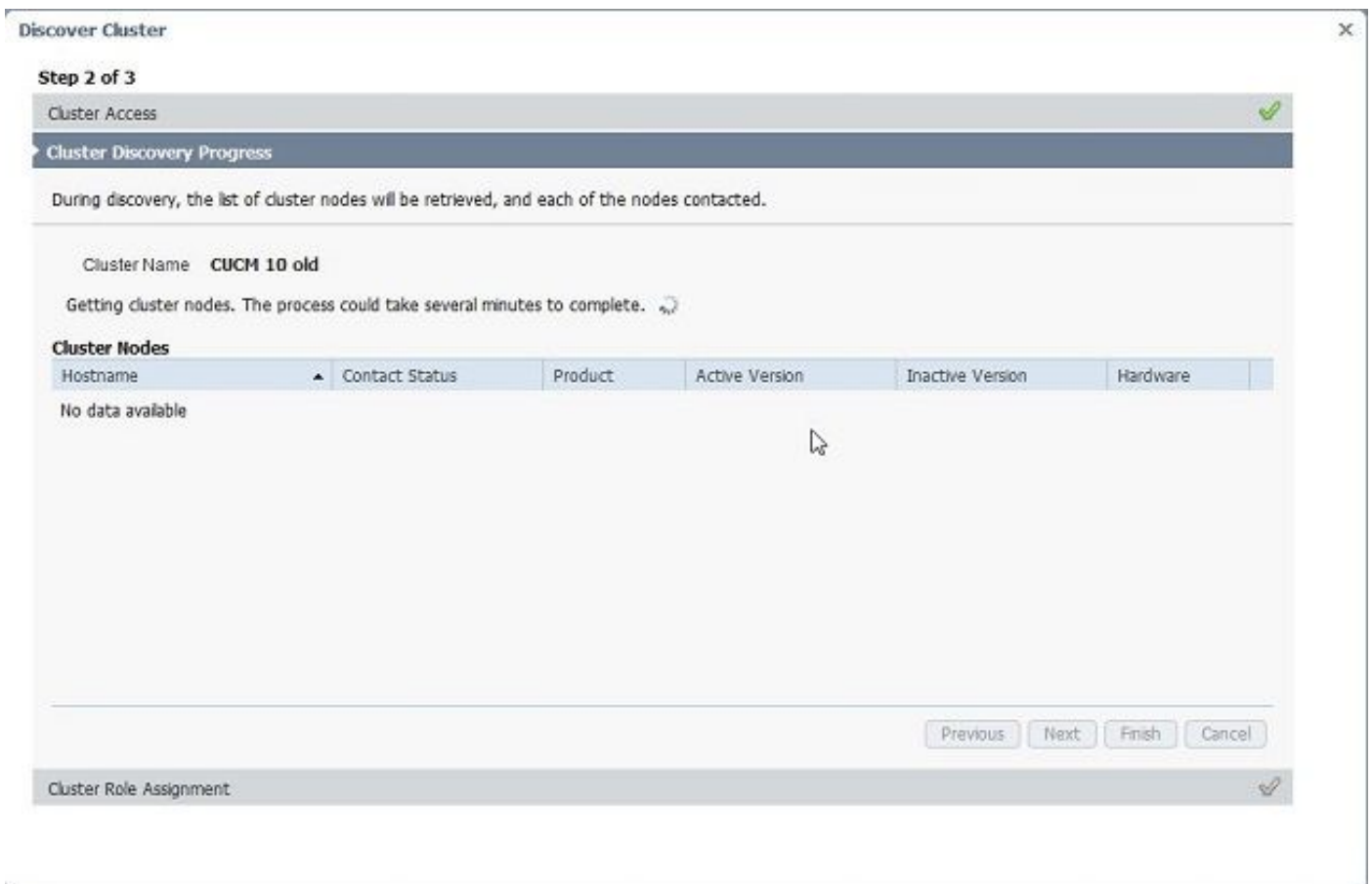
2. Once you are logged in, navigate to **Inventory > Clusters** and then click **Discover cluster**.



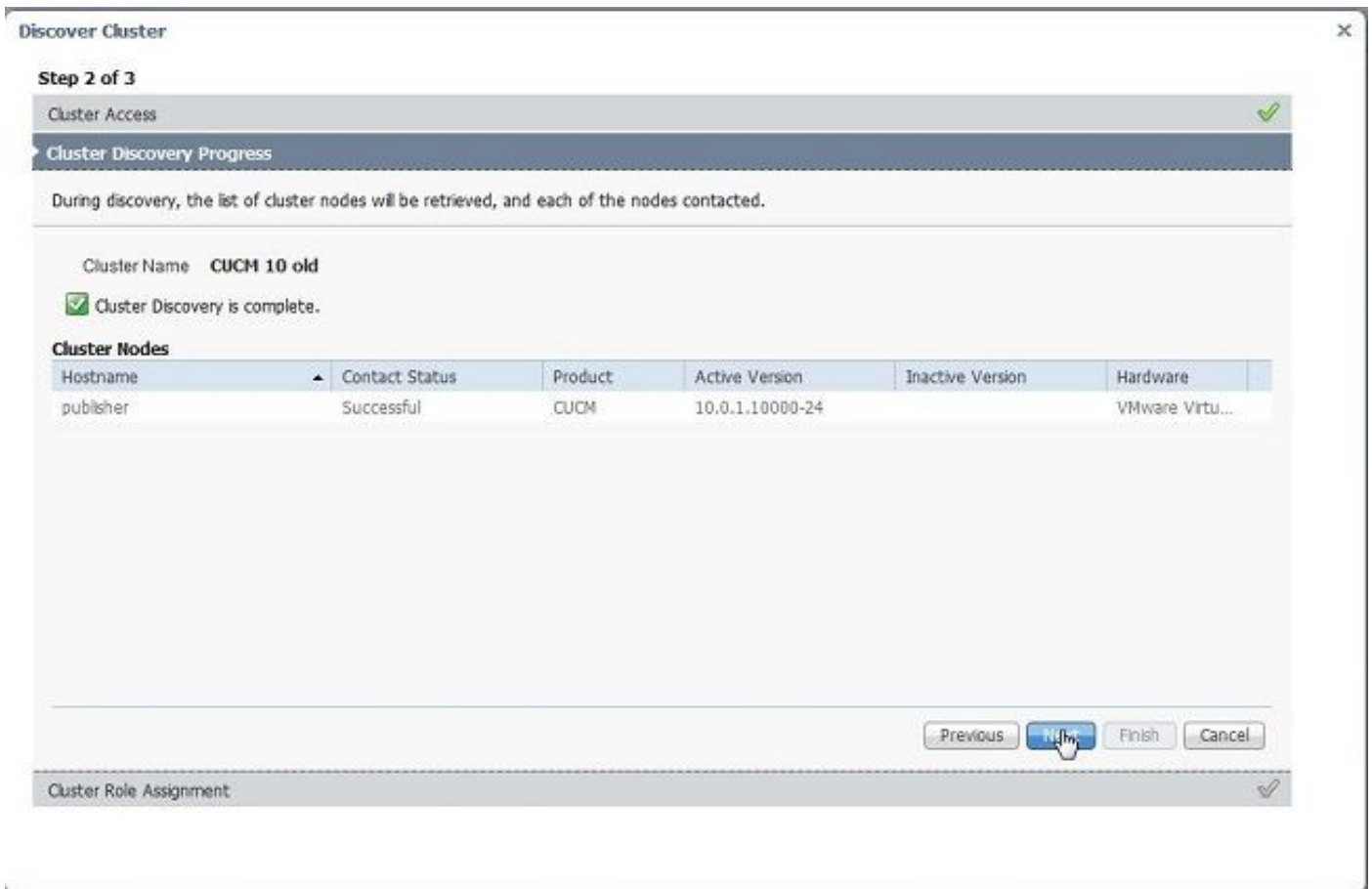
3. Provide existing cluster's details and click the **Next** button.



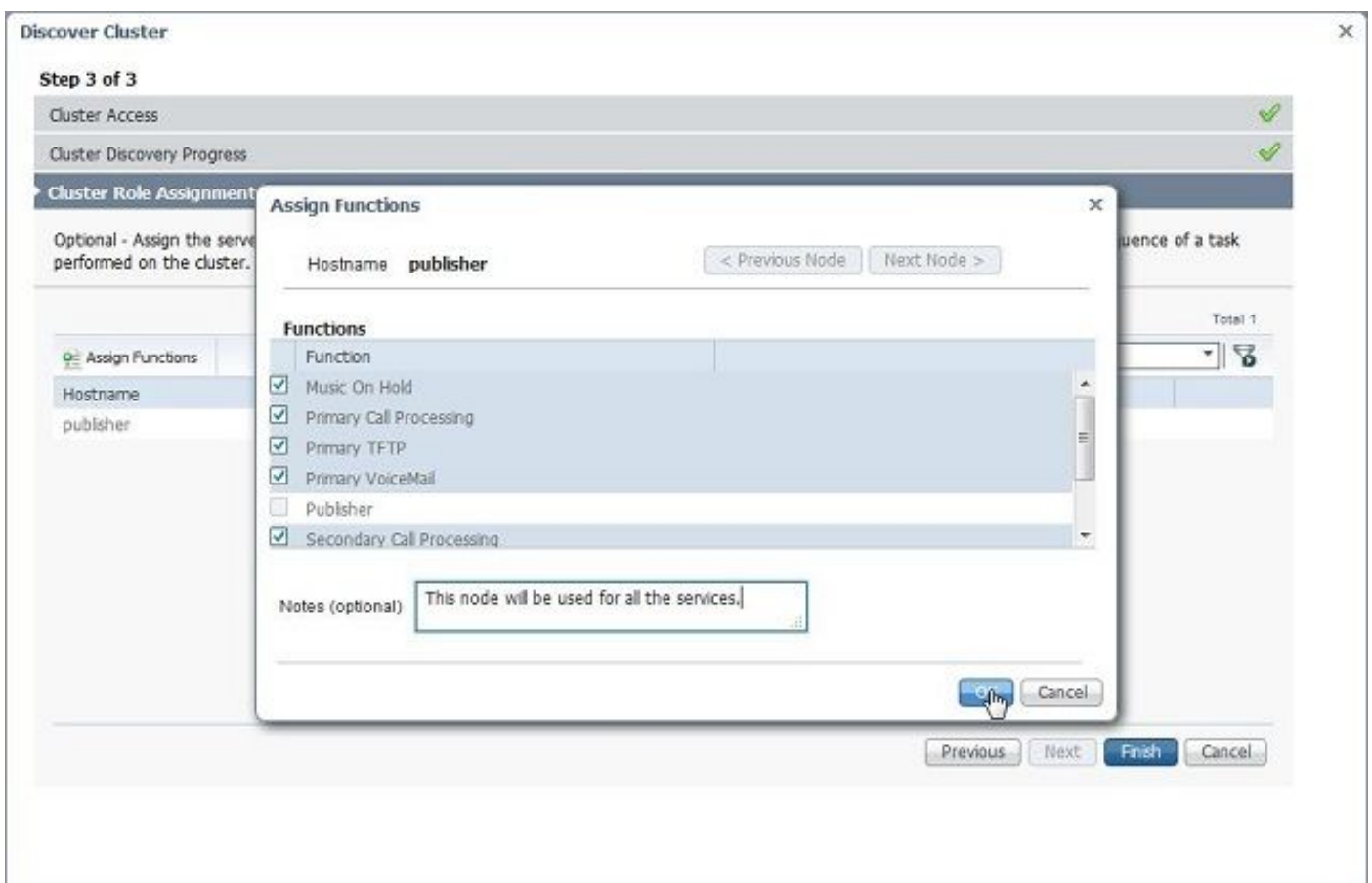
The discovery might take a few minutes to complete and this image is seen during that phase.



4. The Contact status would show as successful once the existing cluster is discovered and the same would be displayed under cluster nodes. Click the **Next** button in order to navigate to the **Cluster Role Assignment** page.

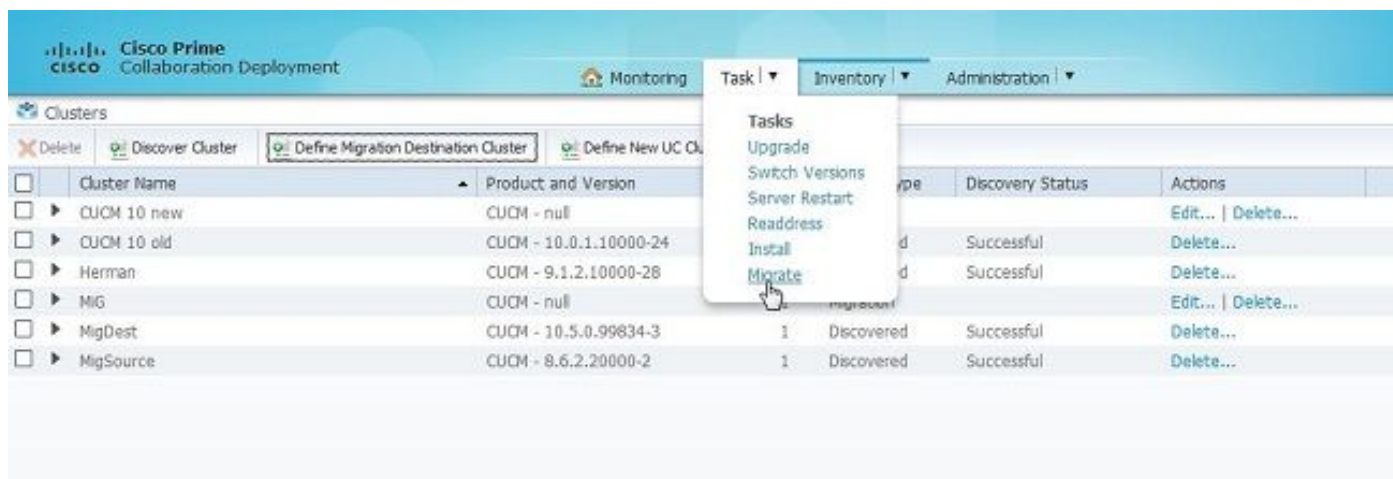


5. Navigate to **Assign Functions** page and select the appropriate functions for the host cluster.

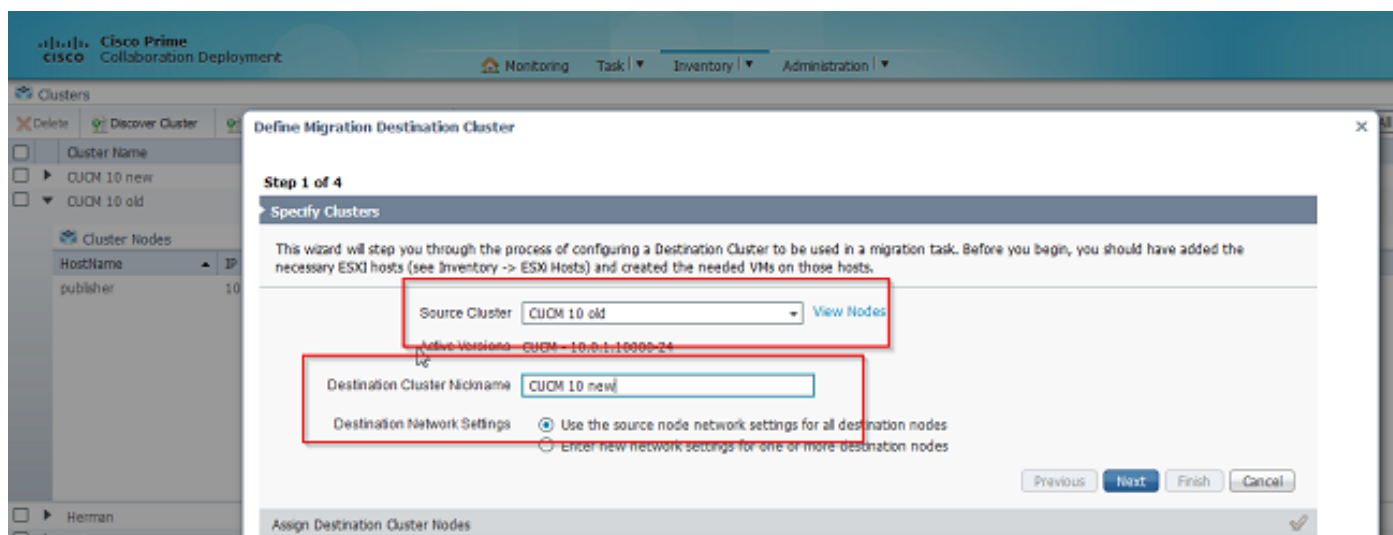


Define the migration cluster

1. Once the cluster is discovered successfully, click the **Define Migration Destination Cluster** button for specifying destination cluster.

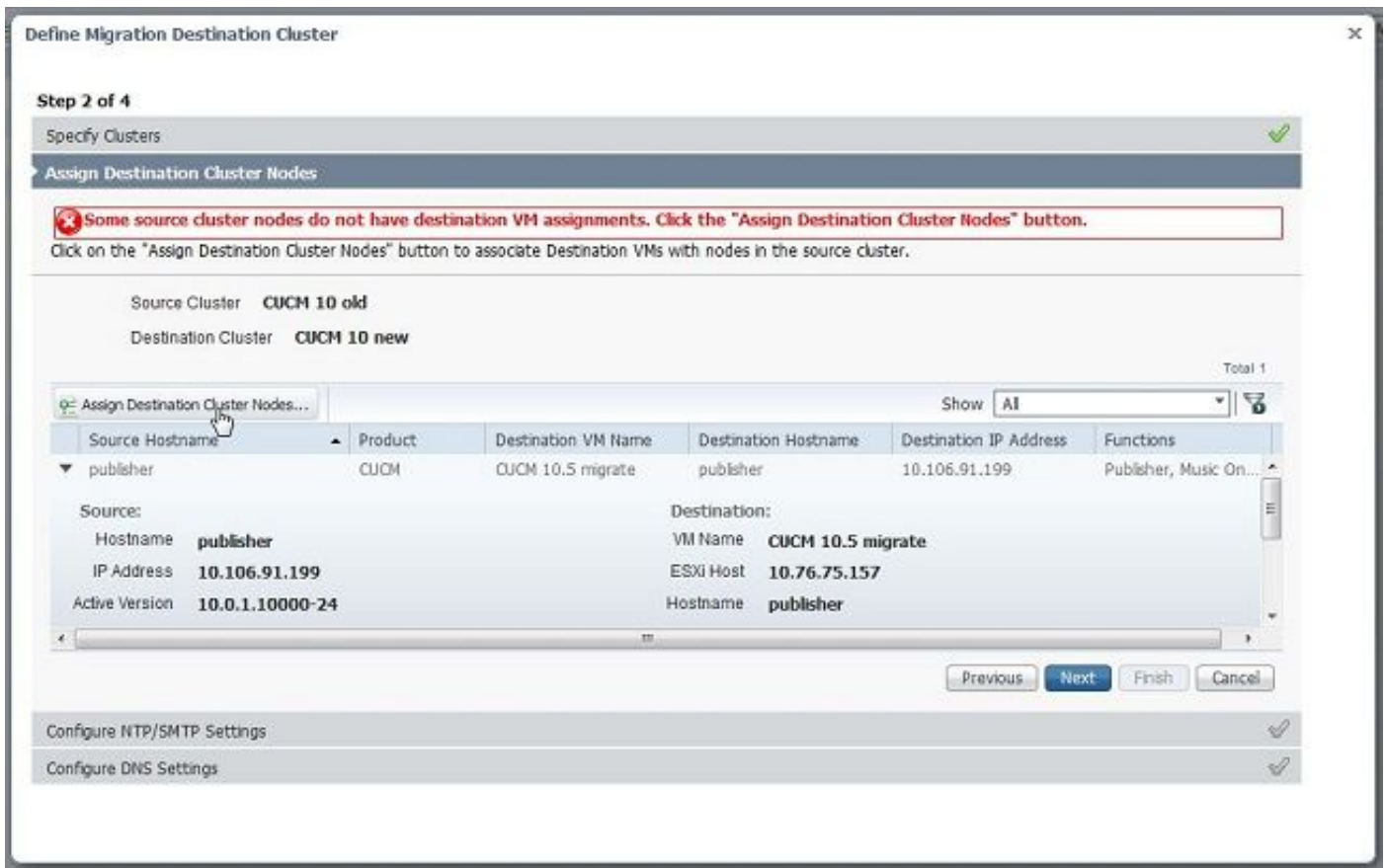


2. Enter the details of the old and new cluster.

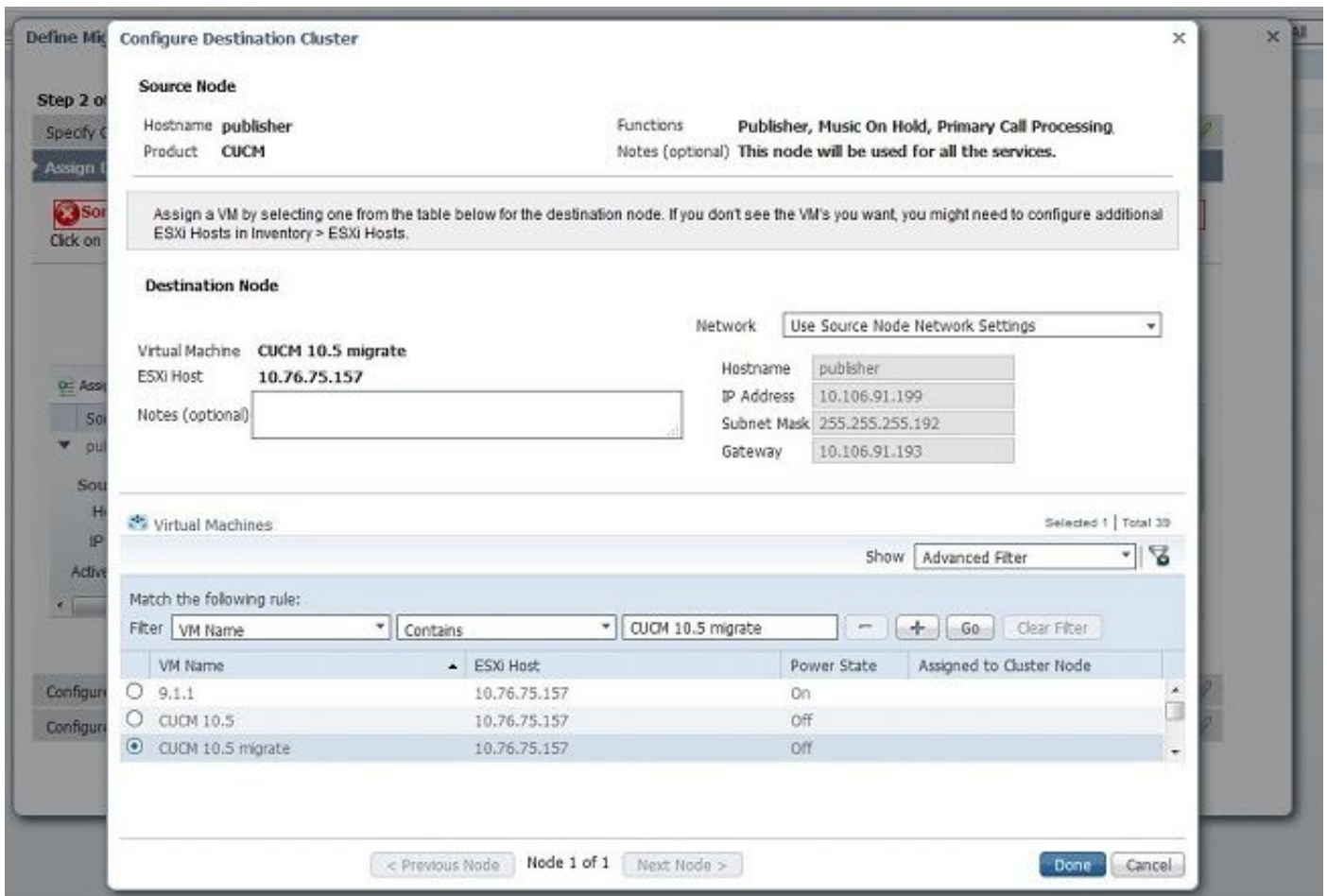


A message in red is seen, as shown in the image, when the destination nodes are not specified.

3. Click the **Assign Destination Cluster Node** button to proceed with the destination node assignment as shown in this image .



4. Select the **Use Source Node Network Settings** option under Network drop down menu to keep the existing network settings and select the destination virtual machine where the new cluster is deployed.



5. Define appropriate Network Time Protocol (NTP) server details here as shown in this image.

The screenshot shows the 'Define Migration Destination Cluster' wizard at Step 3 of 4, 'Configure NTP/SMTP Settings'. The progress bar indicates that 'Specify Clusters' and 'Assign Destination Cluster Nodes' are completed, while 'Configure NTP/SMTP Settings' is the current step. Below the progress bar, there is a text box: 'Configure settings to be applied to the migration nodes when the migration task is run.' The main configuration area is divided into two sections: 'Network Time Protocol (NTP) Configuration' and 'Simple Mail Transfer Protocol (SMTP) Settings'. Under NTP Configuration, there are five input fields for NTP Server 1 through NTP Server 5. NTP Server 1 is set to 10.76.77.174, NTP Server 2 to 10.76.72.3, and NTP Server 3 to 10.76.72.4. The SMTP Settings section has one input field for the SMTP Server. A legend indicates that an asterisk (*) denotes a required field. At the bottom right, there are four buttons: 'Previous', 'Next', 'Finish', and 'Cancel'. The 'Next' button is highlighted with a mouse cursor. At the bottom left, there is a preview of the next step, 'Configure DNS Settings', which is marked as completed with a checkmark.

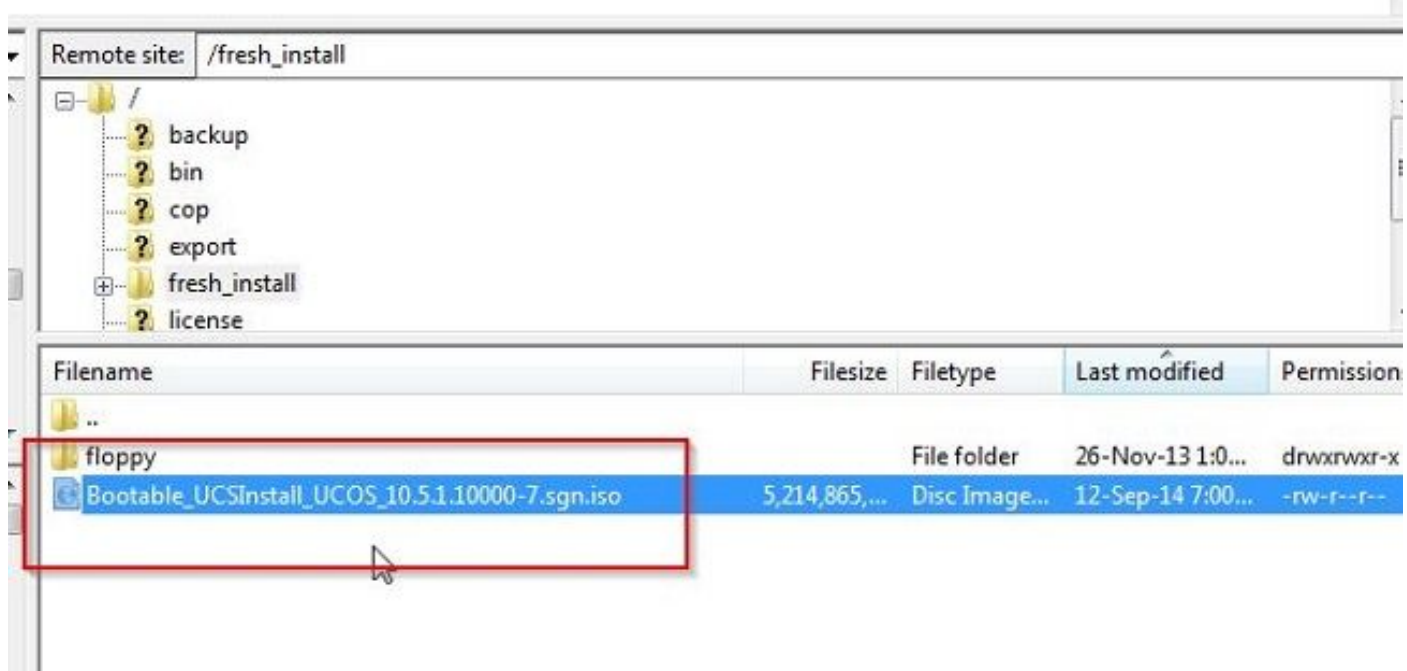
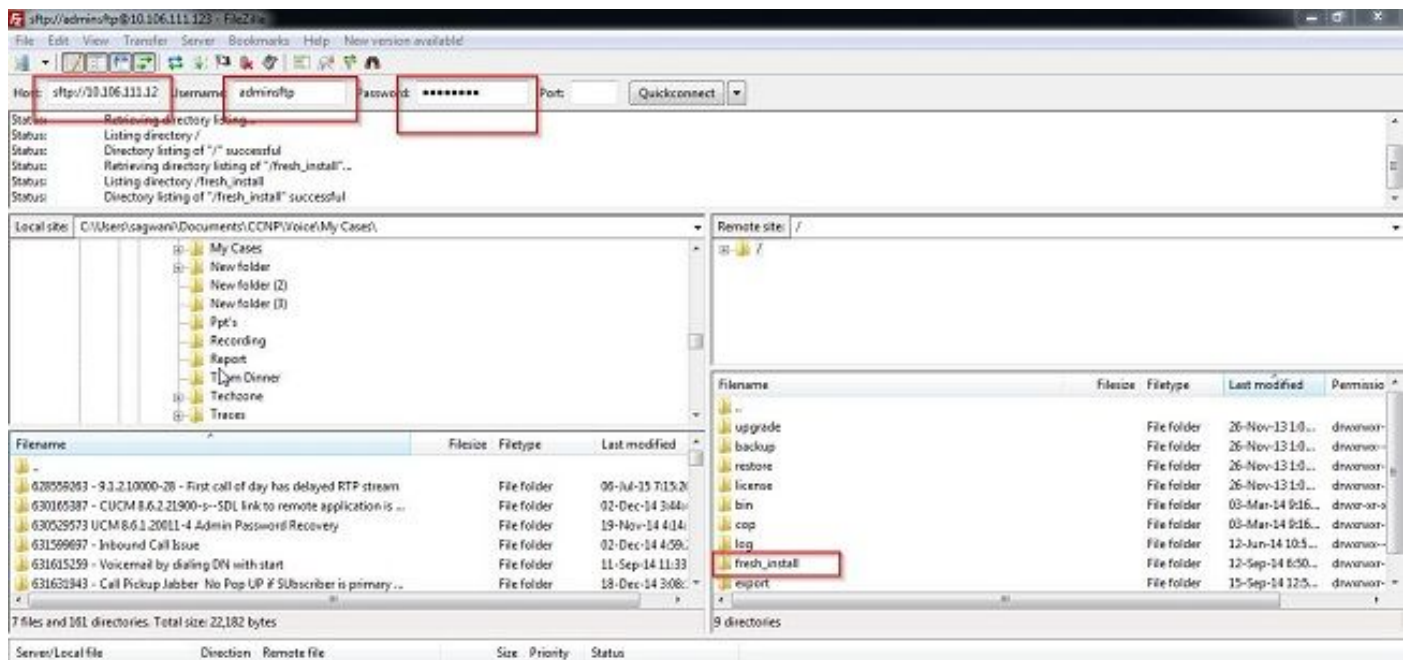
6. Configure the Domain Name Server (DNS) settings here as shown in this image.

The screenshot shows the 'Define Migration Destination Cluster' wizard at Step 4 of 4, 'Configure DNS Settings'. The progress bar shows that all previous steps are completed. Below the progress bar, there is a text box: 'Optionally configure DNS for the migration cluster nodes. Select nodes from table, and enter and apply the DNS setting.' The main configuration area is titled 'Assign DNS Settings' and features a table with columns for 'Hostname', 'Functions', 'Primary DNS', 'Secondary DNS', and 'Domain'. A 'Show' dropdown menu is set to 'All'. The table contains one row with the hostname 'newpublisher' selected (checkbox checked) and the function 'Publisher, Music On Hold, Primar...'. At the bottom right, there are four buttons: 'Previous', 'Next', 'Finish', and 'Cancel'. The 'Finish' button is highlighted with a mouse cursor.

7. Upload the bootable ISO image to the Secure FTP (SFTP) server. Access the PCD server through a SFTP client using its ip address and default credentials **adminsftp/your default**

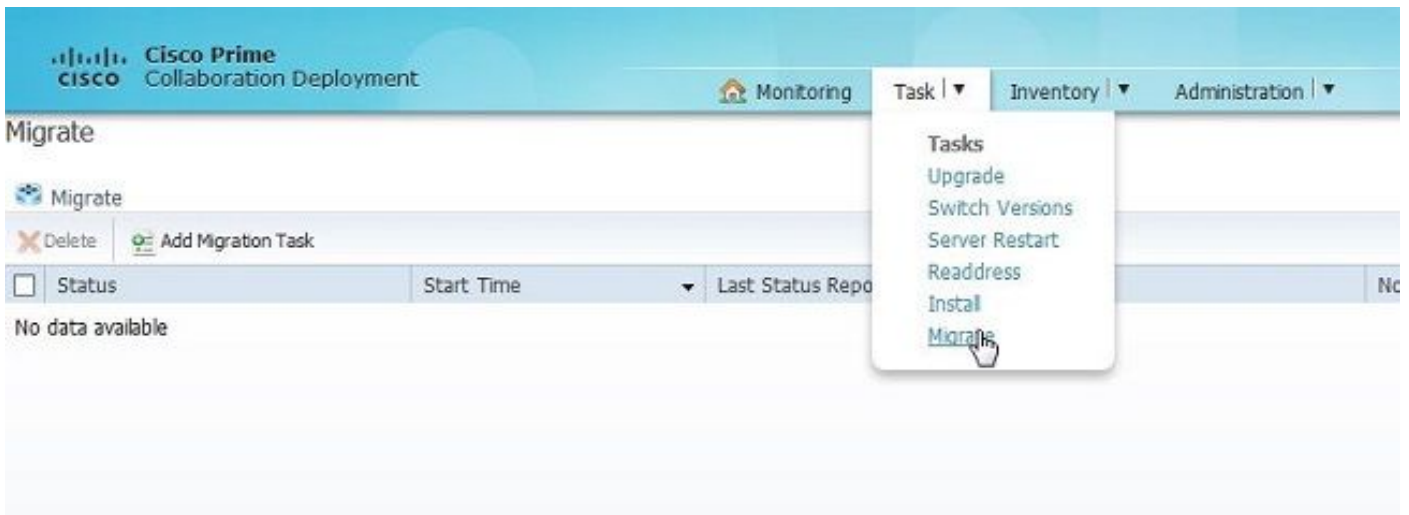
administrator password].

Once logged in, navigate to the **Fresh_install** directory to upload the iso image.

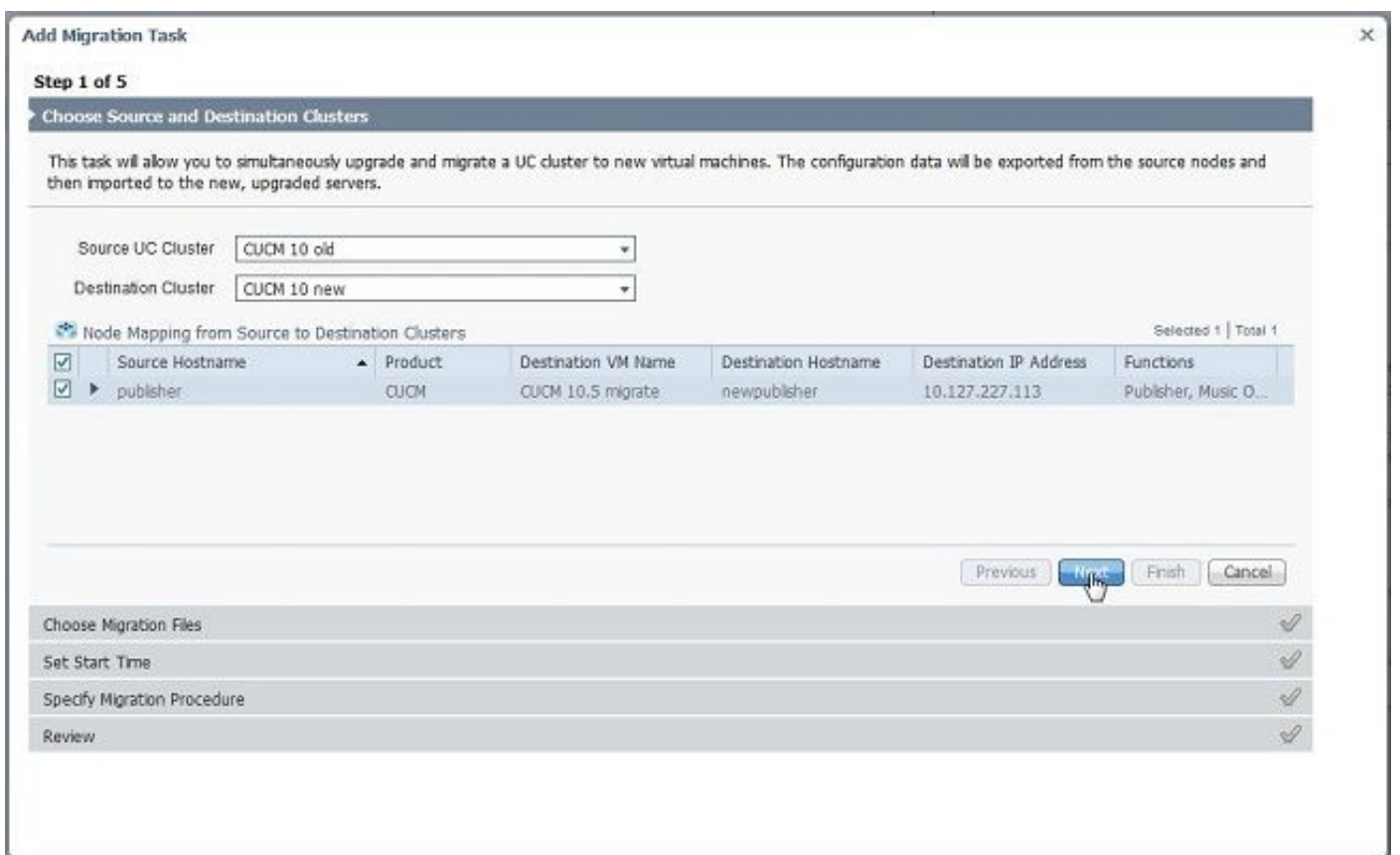


Initiate Migration

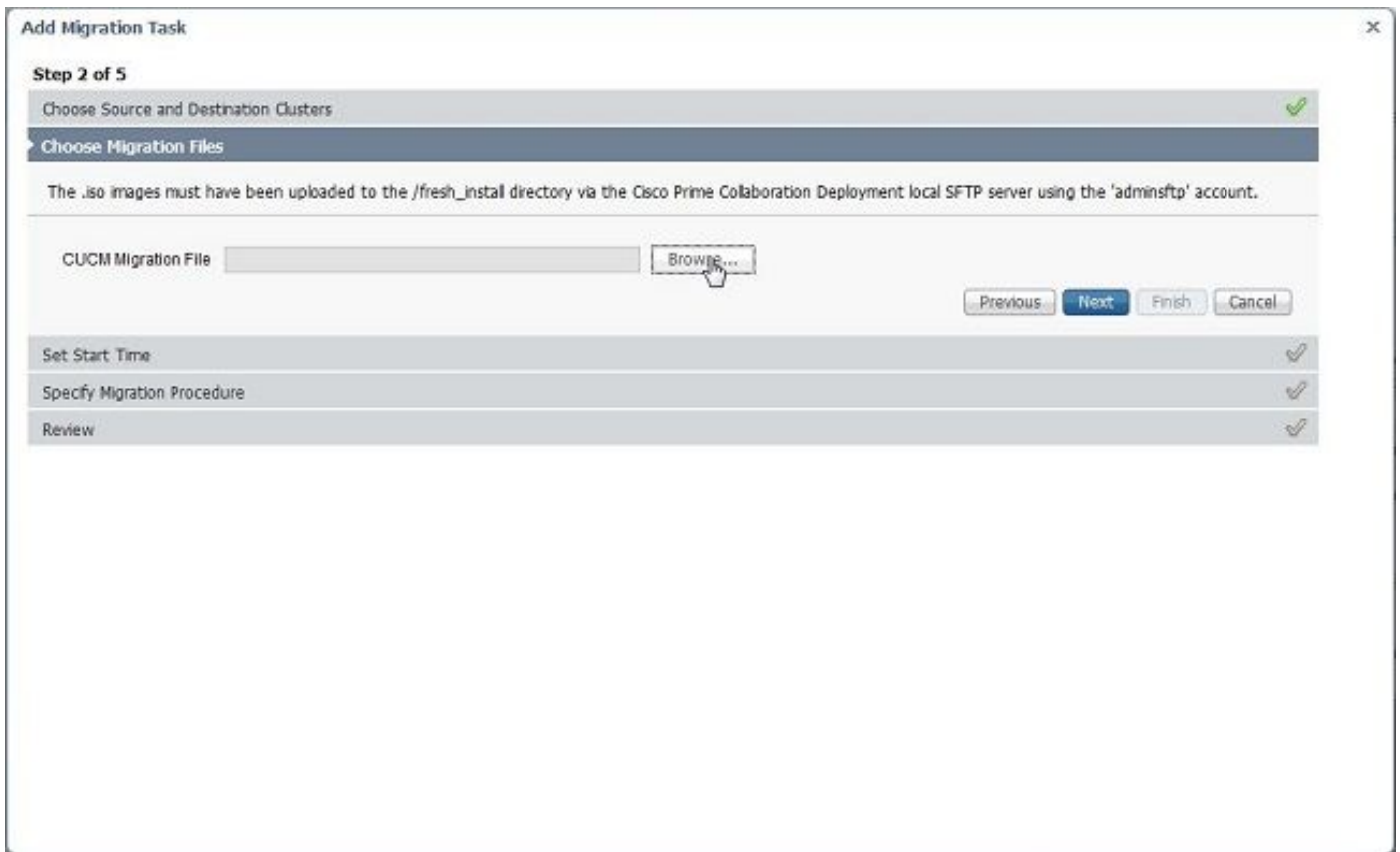
1. To initiate the migration task, navigate to **Task > Migrate** and click the **Add migration task** button .



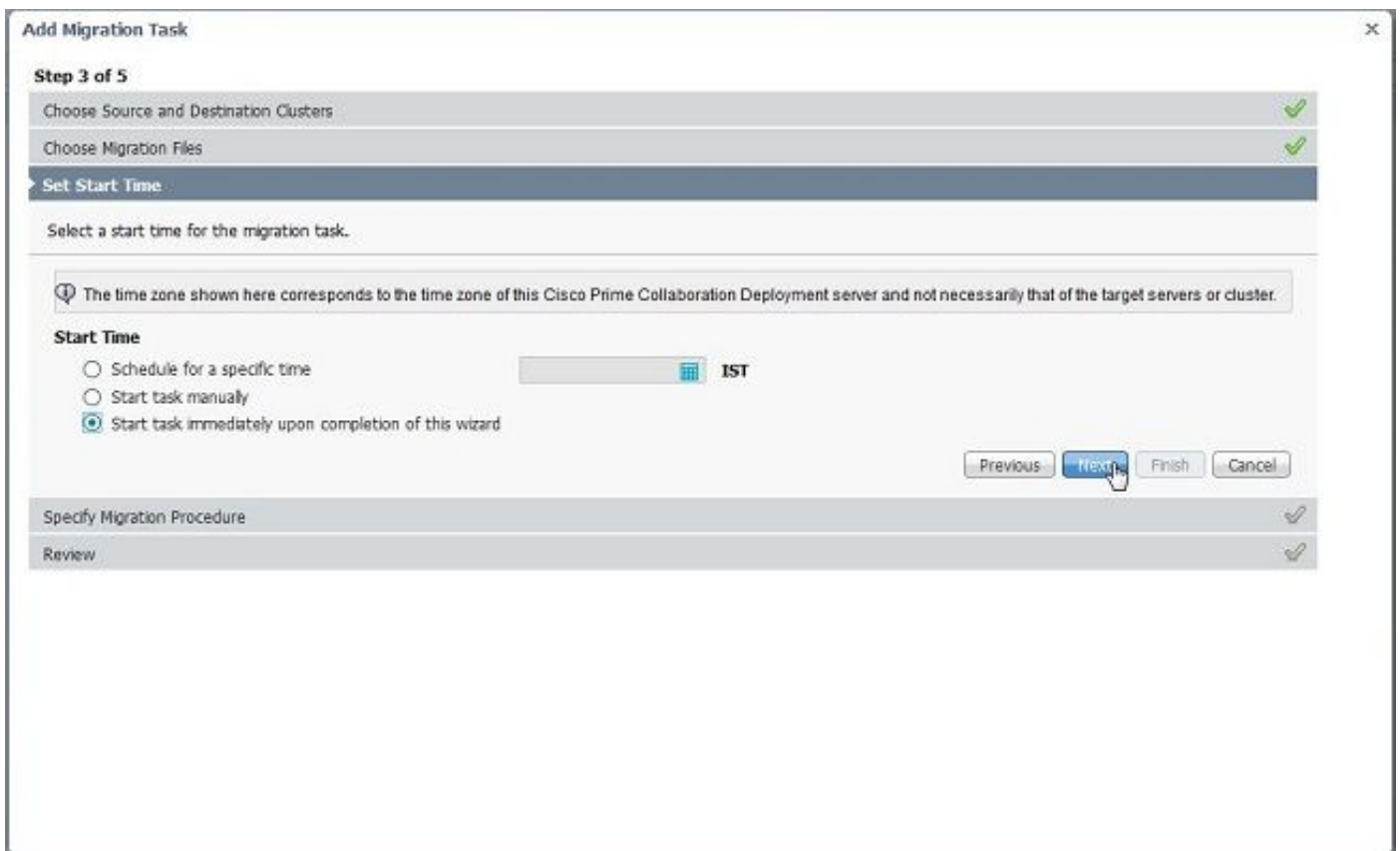
2. Specify the Source and Destination Cluster details.



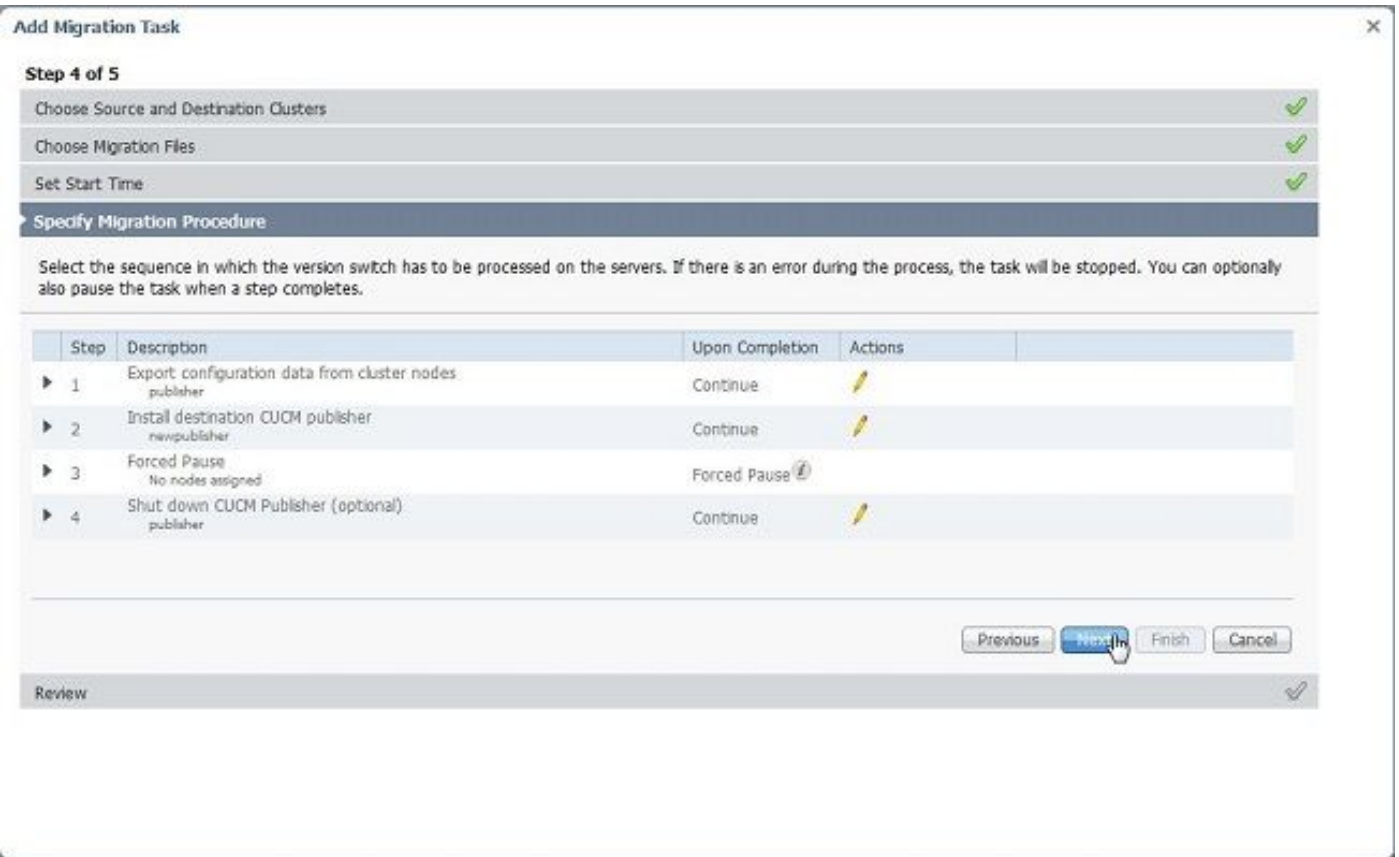
3. Choose the bootable media uploaded to the /fresh_install folder of the SFTP server.



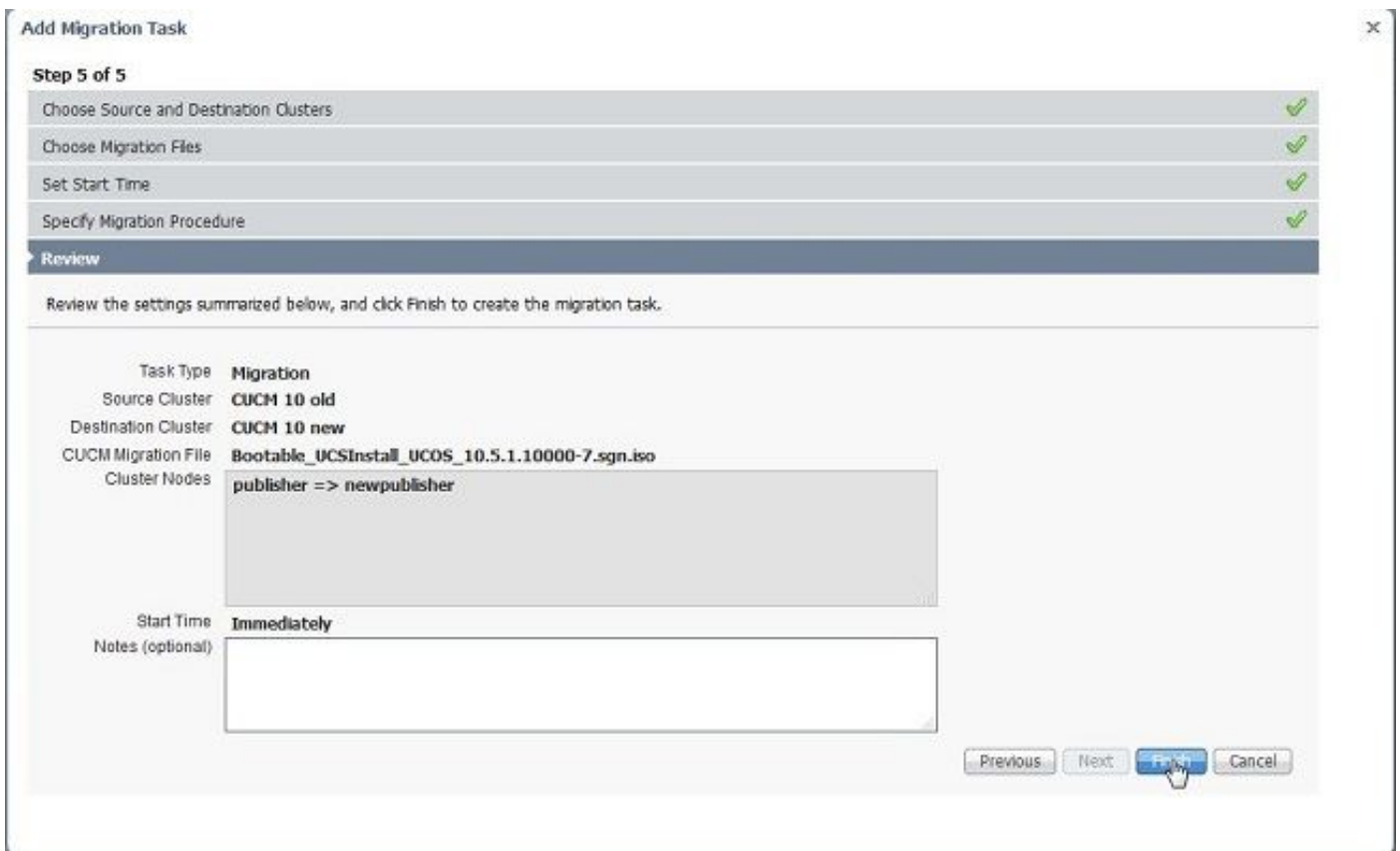
4. Select the start time for the migration .

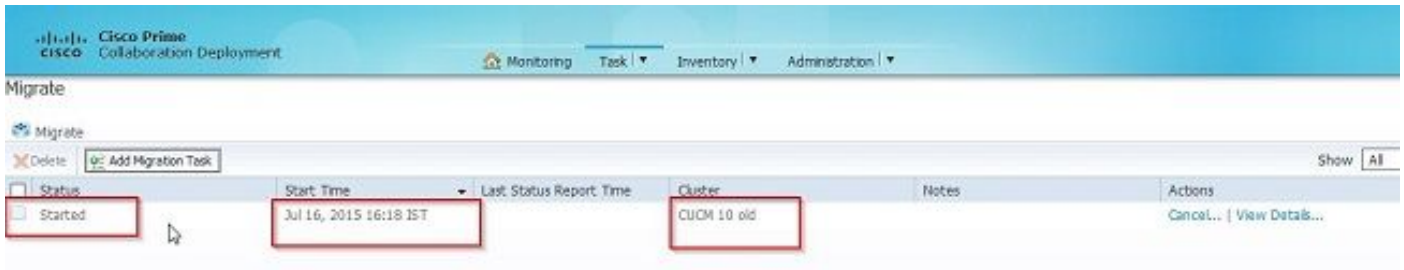


Here you have the option to modify the action specified in the default task list.



5. Review the migration settings and click the **Finish** button.

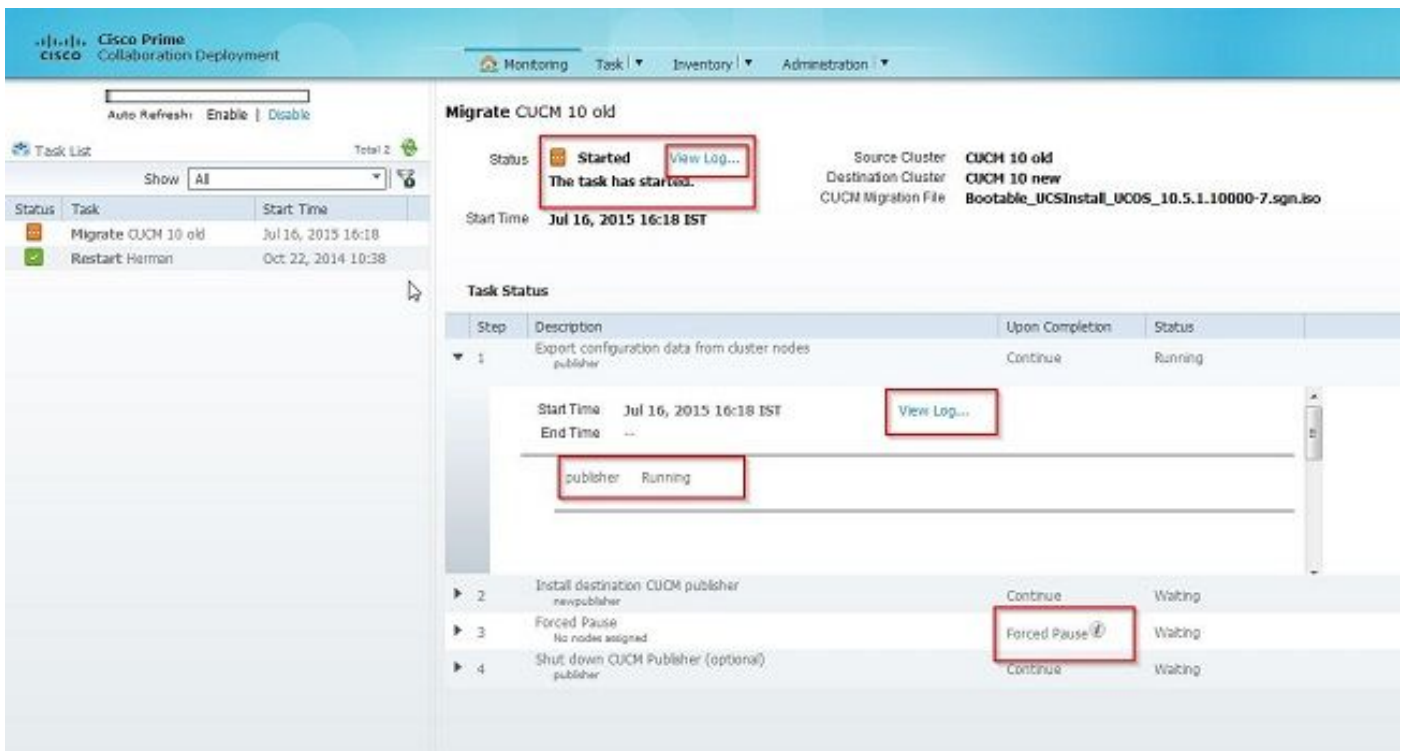




Verify

Here you can check the status and details of migration.

1. Click on view log to get further details on migration status.



Migrate CUCM 10 old

Total 2

Status **Started**

[View Log...](#)

Source Cluster **CUCM 10 old**
Destination Cluster **CUCM 10 new**

The task has started.

View Task Log

Show

Timestamp	Type	Messages
Jul 16, 2015 16:18 IST	STATUS	The task has been scheduled.
Jul 16, 2015 16:18 IST	INFO	Export task action ID #621 with 1 node(s) scheduled.
Jul 16, 2015 16:18 IST	STATUS	The task has started.
Jul 16, 2015 16:18 IST	INFO	Export task action ID #621 with 1 node(s) started.
Jul 16, 2015 16:18 IST	INFO	Export job for node publisher started.

Close

Migrate CUCM 10 old

Total 2

Status **Started**

[View Log...](#)

Source Cluster **CUCM 10 old**
Destination Cluster **CUCM 10 new**

The task has started.

View Task Log

Show

Timestamp	Type	Messages
Jul 16, 2015 16:18 IST	INFO	Export task action ID #621 with 1 node(s) scheduled.
Jul 16, 2015 16:18 IST	INFO	Export task action ID #621 with 1 node(s) started.
Jul 16, 2015 16:18 IST	INFO	Export job for node publisher started.

Close

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.