Install CUCM Cluster Using Data Export and Import Feature

Contents

Introduction

This document describes the procedure of CUCM installation using Data Export and Import feature.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics.

- CUCM
- IP Phone

Components Used

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

- Source CUCM cluster versions - 12.5.1.15900-66.
- Destination CUCM cluster versions - 15.0.1.11900-23.

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, ensure that you understand the potential impact of any command.

Configure

Configurations

Data export is done on the old source CUCM cluster and data import is done on the new destination cluster. Your source cluster version must be Release 10.5 or higher. If your source cluster version is not Release 12.5(1) SU5 or higher, you must install the latest version of the ciscocm.DataExport COP file on each node of the source system.
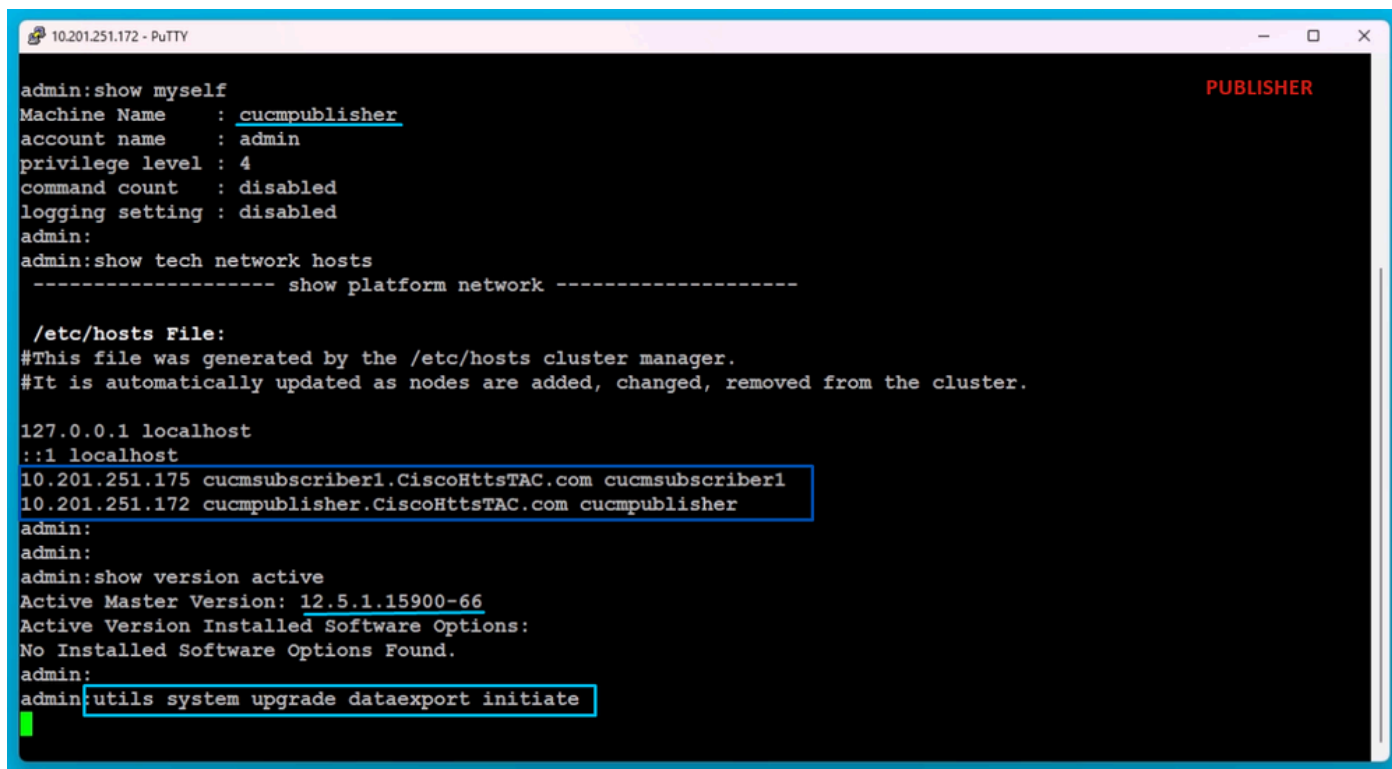
Steps included for CUCM installation using data export and import feature:

- Export data from the source cluster Publisher to the SFTP server.
- Export data from the source cluster Subscriber to the SFTP server.
- Shutdown the source cluster Publisher.
- Shutdown the source cluster Subscriber.
- Install new Publisher using exported data.
- Install new Subscriber using exported data.

Export Data from the Source Cluster Publisher to the SFTP Server

Source cluster version is 12.5.1.15900-66.
Login to the command line interface of the CUCM Publisher and run the command **utils system upgrade dataexport initiate**.

Data Export Command

Provide the SFTP server details, the destination Publisher hostname and the IP Address.

Note: Here, I have used the same hostname and IP address of the Publisher.

Processing Data Export

Run the command **utils system upgrade dataexport status** for checking whether the data export process is completed or not.
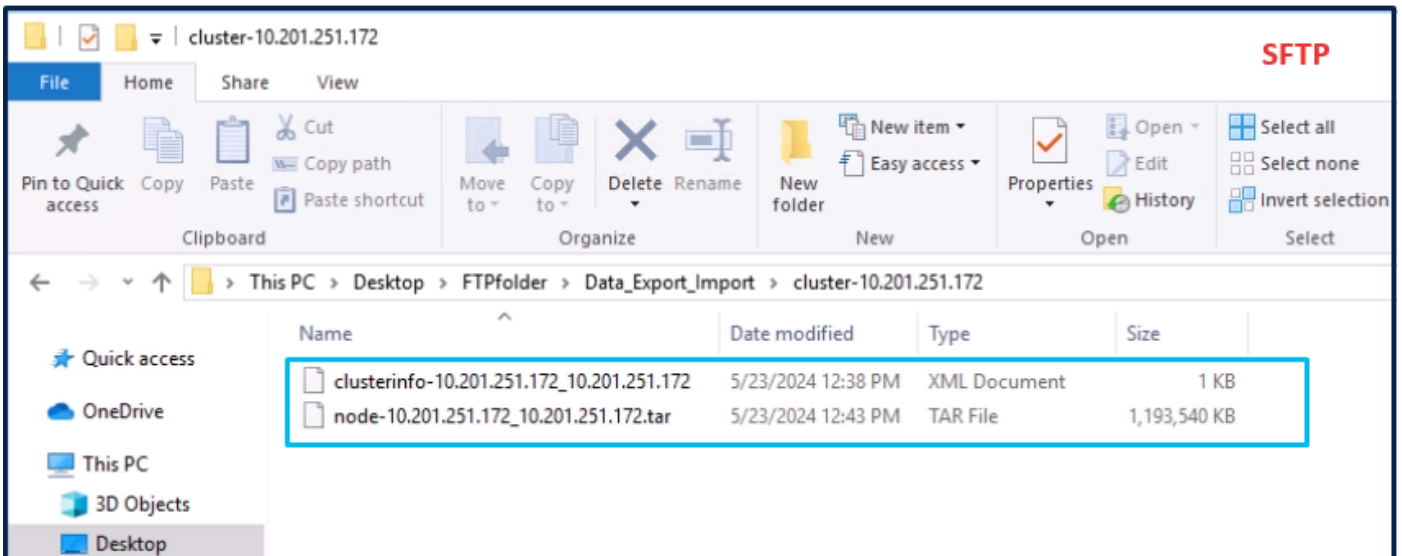

Data Export Progress Check

In the SFTP server, a new folder is automatically created with name like **cluster-Publisher IP Address** and the exported data is downloaded into it.
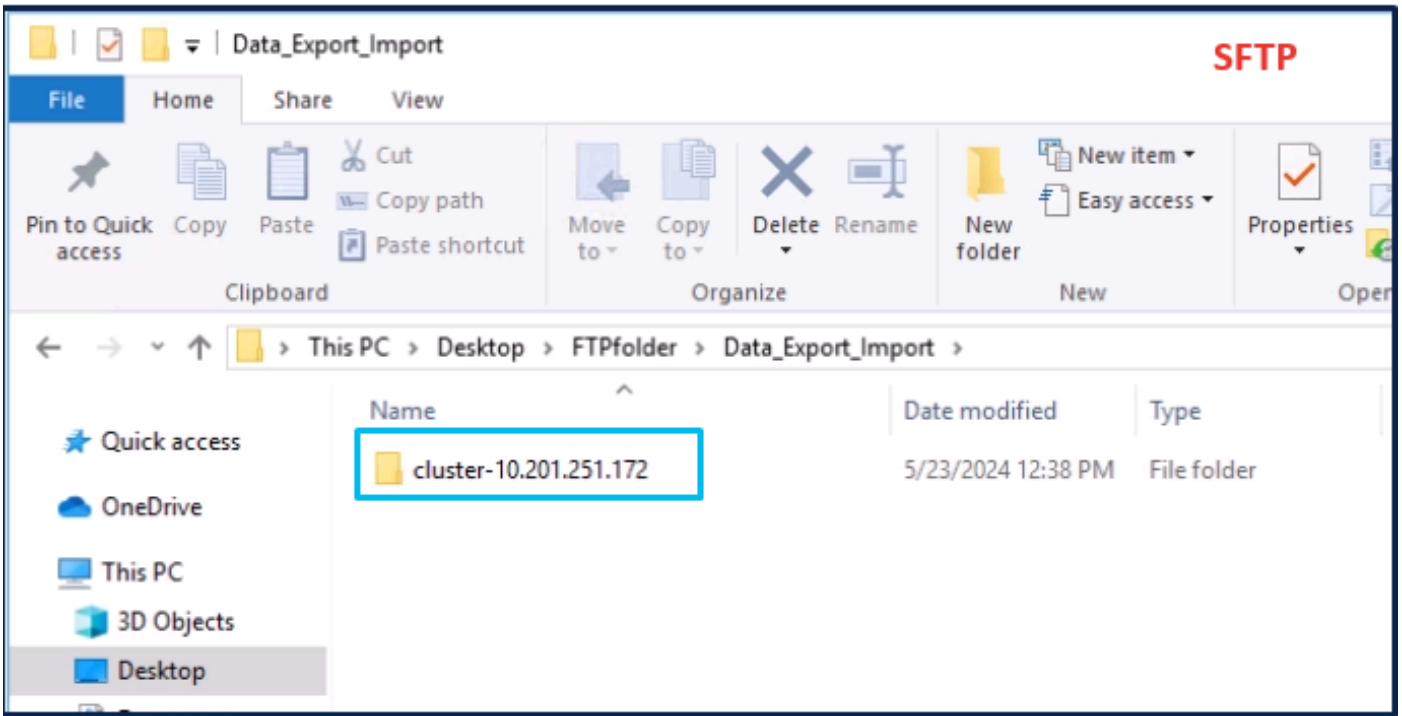
Exported Data Location in the SFTP Server

After export is done for the Publisher, the status shows **completed** from the output of **utils system upgrade dataexport status**.

Data Export is Completed for the Publisher

Data Export is Completed for the Publisher

Export Data from the Source Cluster Subscriber to the SFTP Server

The steps are same like what we did for the Publisher.

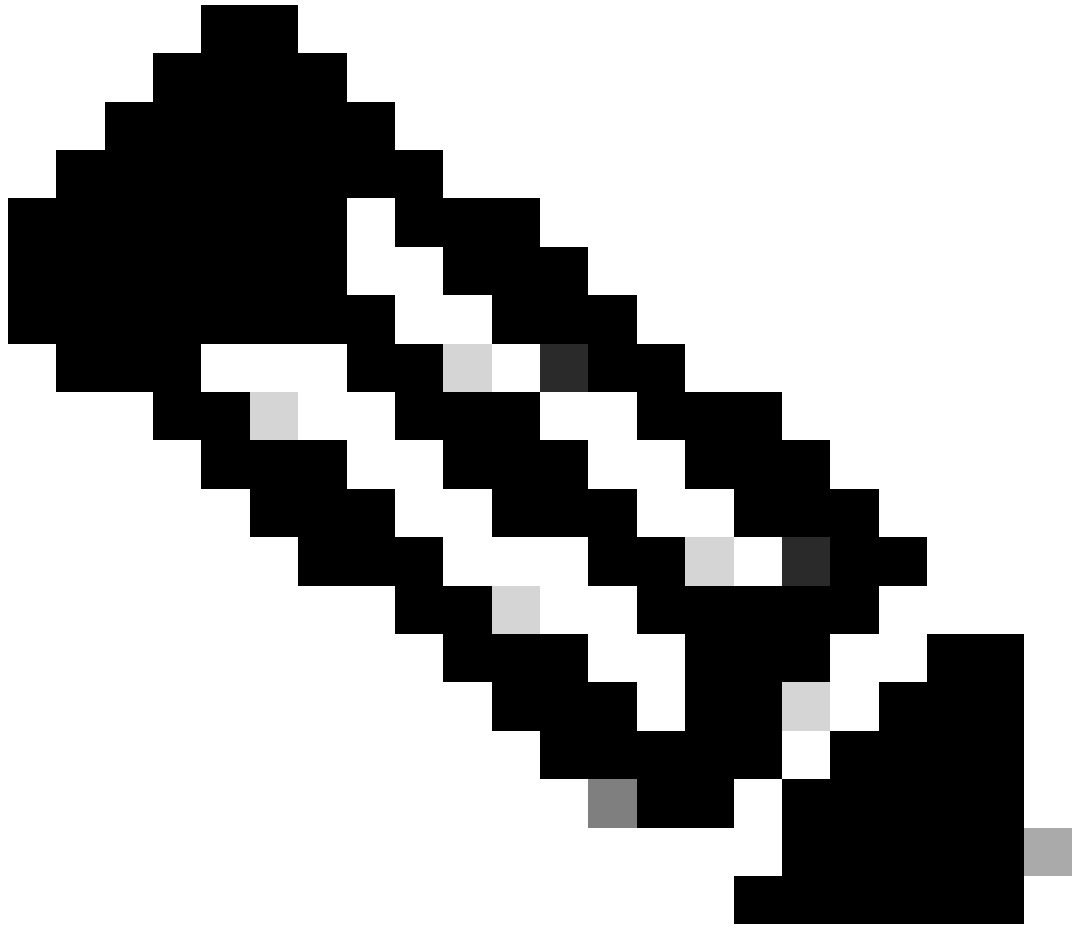Run the command **utils system upgrade dataexport initiate**.

Data Export on the Subscriber

Provide the SFTP server details, the destination Subscriber hostname and IP Address.

Note: In this LAB we used the same source cluster Subscriber hostname and IP Address.

Processing Data Export

In the same folder location (**cluster-Publisher IP Address**) of the SFTP, the Subscriber exported data exists.
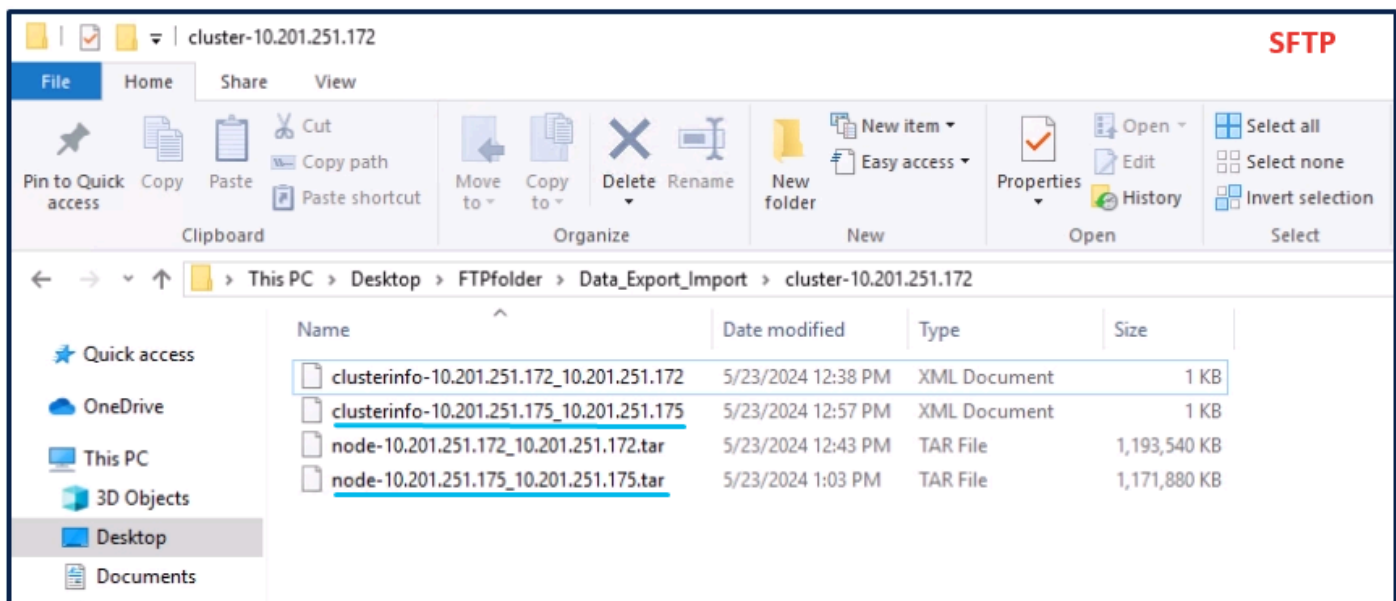
Data Export is Completed for Subscriber

After export is done for the Subscriber, the status shows **completed** from the output of **utils system upgrade dataexport status**.

Data Export is Completed for Subscriber

Shutdown the Source Cluster Publisher

Shutdown the Publisher by executing the command **utils system shutdown**.

Shutdown the Publisher

Shutdown the Source Cluster Subscriber

Shutdown the Subscriber by executing the command **utils system shutdown**.

Shutdown the Subscriber

Install New Publisher Using Exported Data

Build a Virtual Machine for the Publisher using appropriate OVA Template.
Mount 15.0.1.11900-23 version bootable image to the Virtual Machine (VM) and turn ON the VM.
Press **OK** button after the media check is success.

Choose **Cisco Unified Communication Manager** and click the **OK** button.

Press **Yes** button to proceed with installation of 15.0.1.11900-23 version.
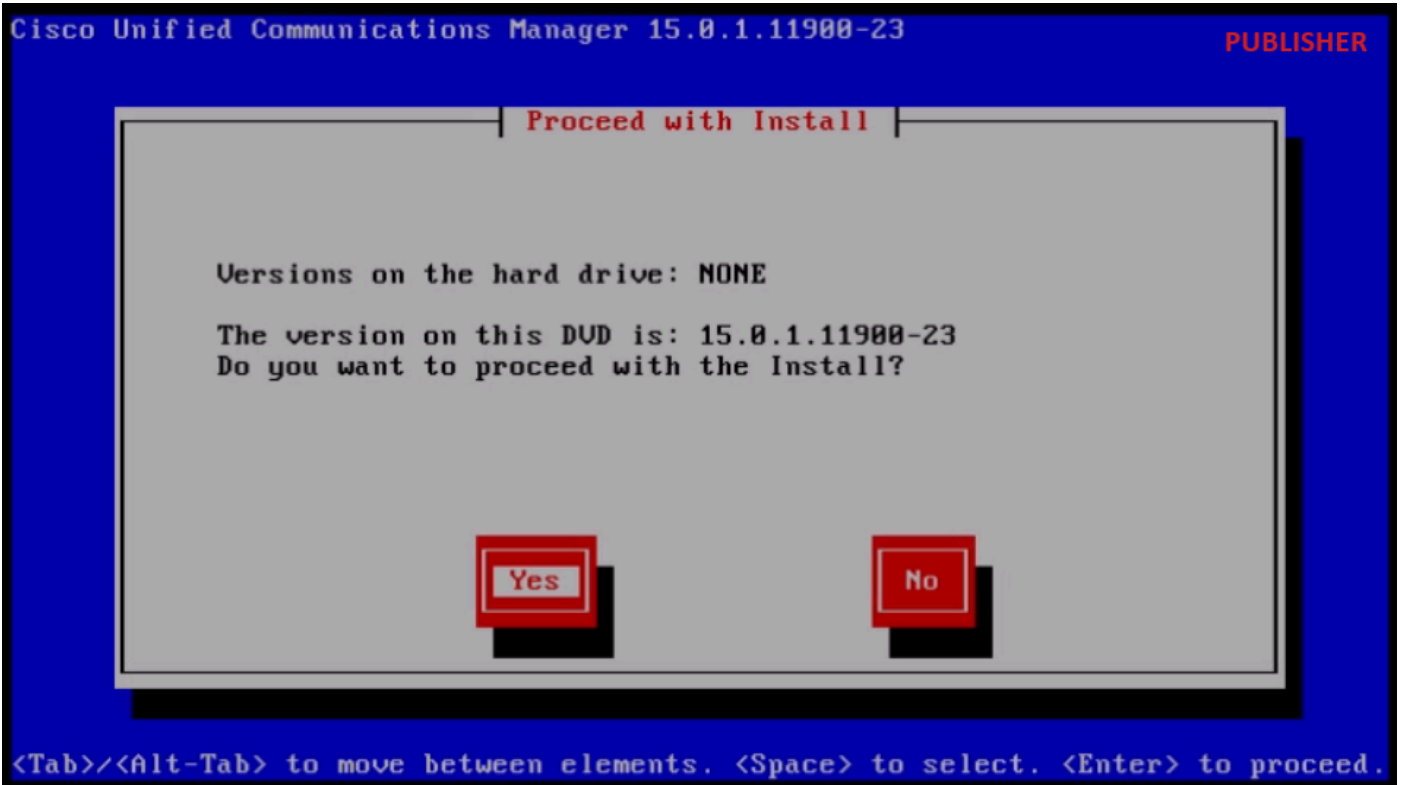
Proceed with Install

Click the **Import** button in the Platform Installation Wizard.

Platform Installation Wizard

After reading the displayed information, click **OK** button in the Import Upgrade Configuration information.

*Import Upgrade Configuration Information*

Choose appropriate timezone and then click the **OK** button.

Click the **Continue** button in the Auto Negotiation Configuration.

Click the **No** button to have the default value in MTU Configuration.
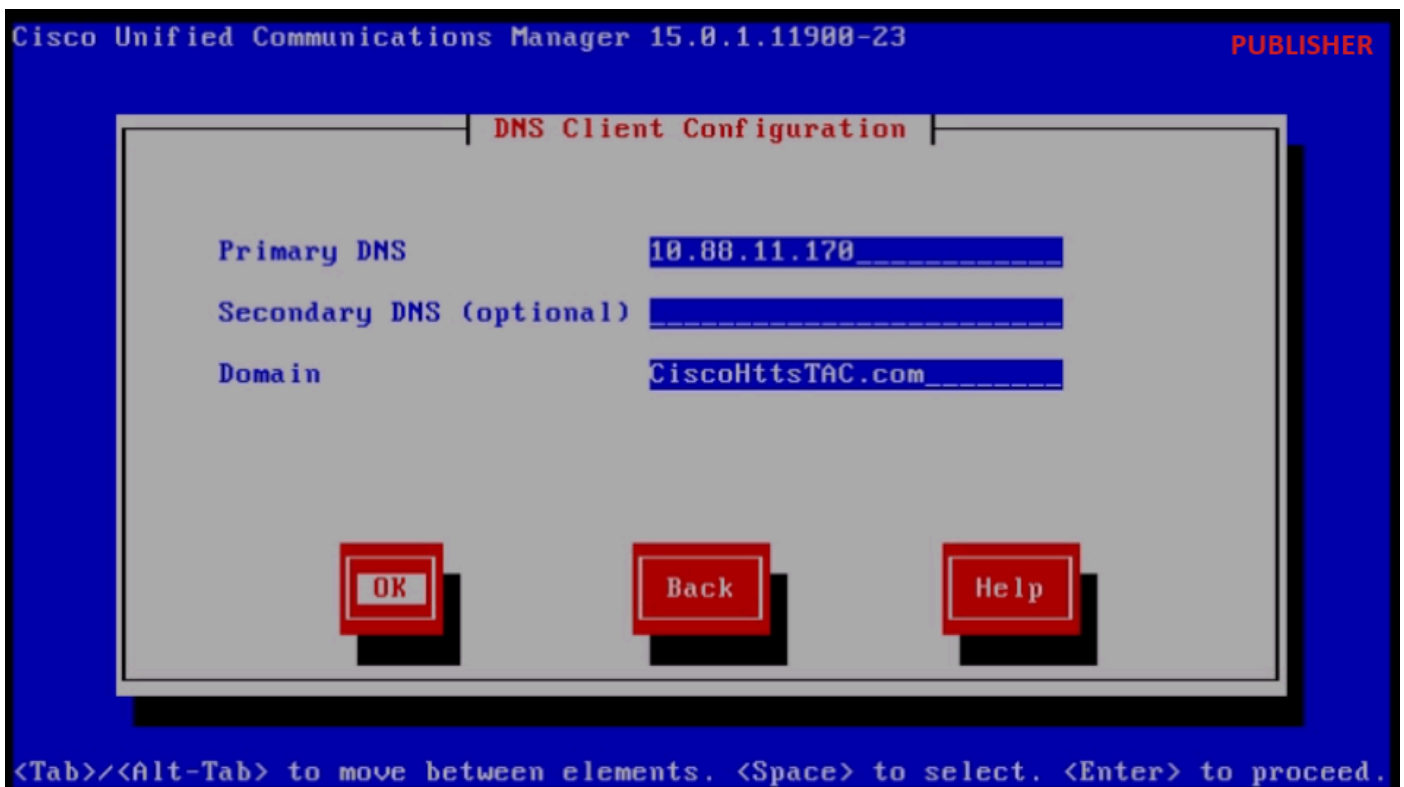
Press the **No** button under the DHCP Configuration.

Provide the Host Name, IP Address, IP Mask and Gateway (GW) Address and then press the **OK** button.
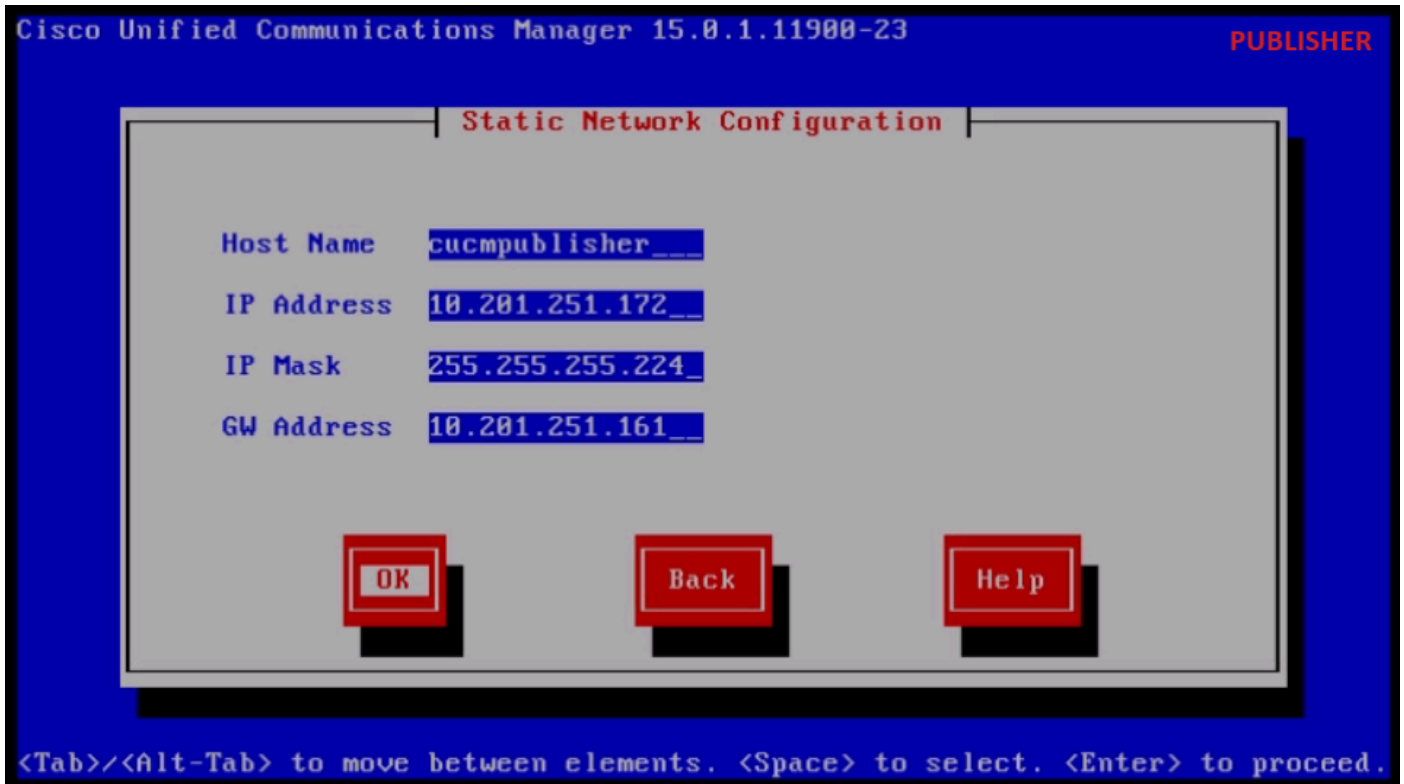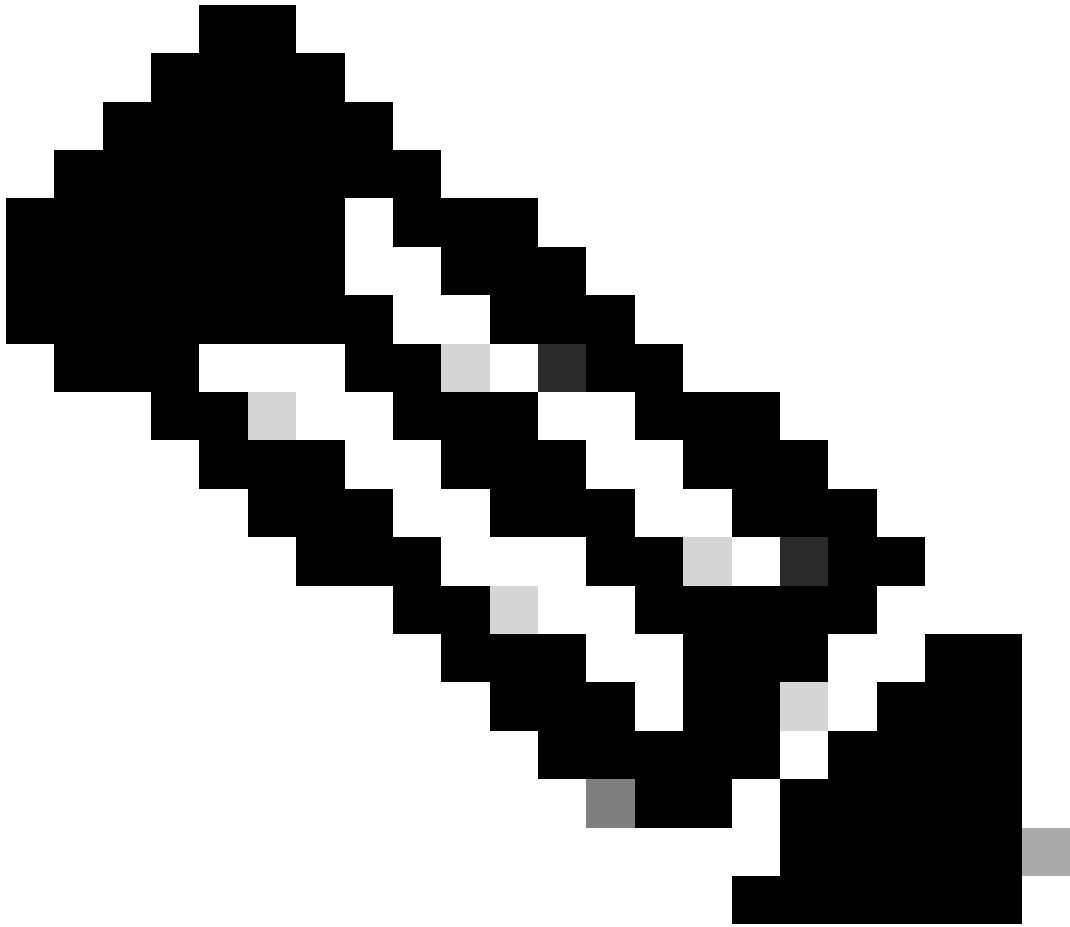
Static Network Configuration

Click the **Yes** button under the DNS Client Configuration.

Provide the Primary DNS server IP Address and Domain and then click the **OK** button.

DNS Client Configuration

Provide the SFTP server information (IP, directory, login ID and Password) where we have the exported data of the source cluster and then press the **OK** button.
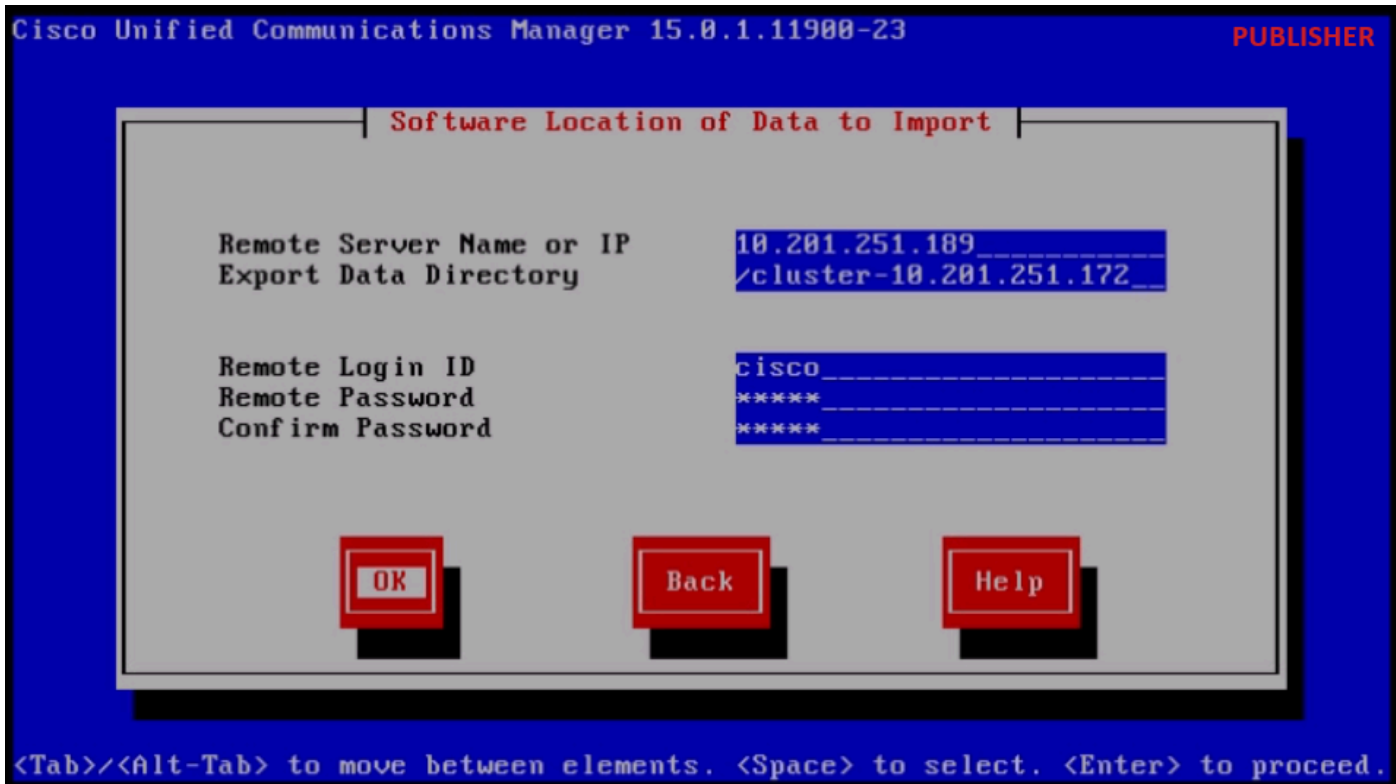
Note: Location of the Publisher exported data is present in the folder **cluster-Publisher_IP_Address** as shown in the screenshot.

Exported Data Location in the SFTP Server

Software Location of Data to Import

Provide the Certificate information and click the **OK** button.

Press the **Yes** button under First Node Configuration.

First Node Configuration

Configure the NTP (Network Time Protocol) server and then click the **Proceed** button.

NTP Client Configuration

Click the **No** button for SMTP Host Configuration.

Note: If want to configure SMTP then press Yes button and configure the SMTP host.
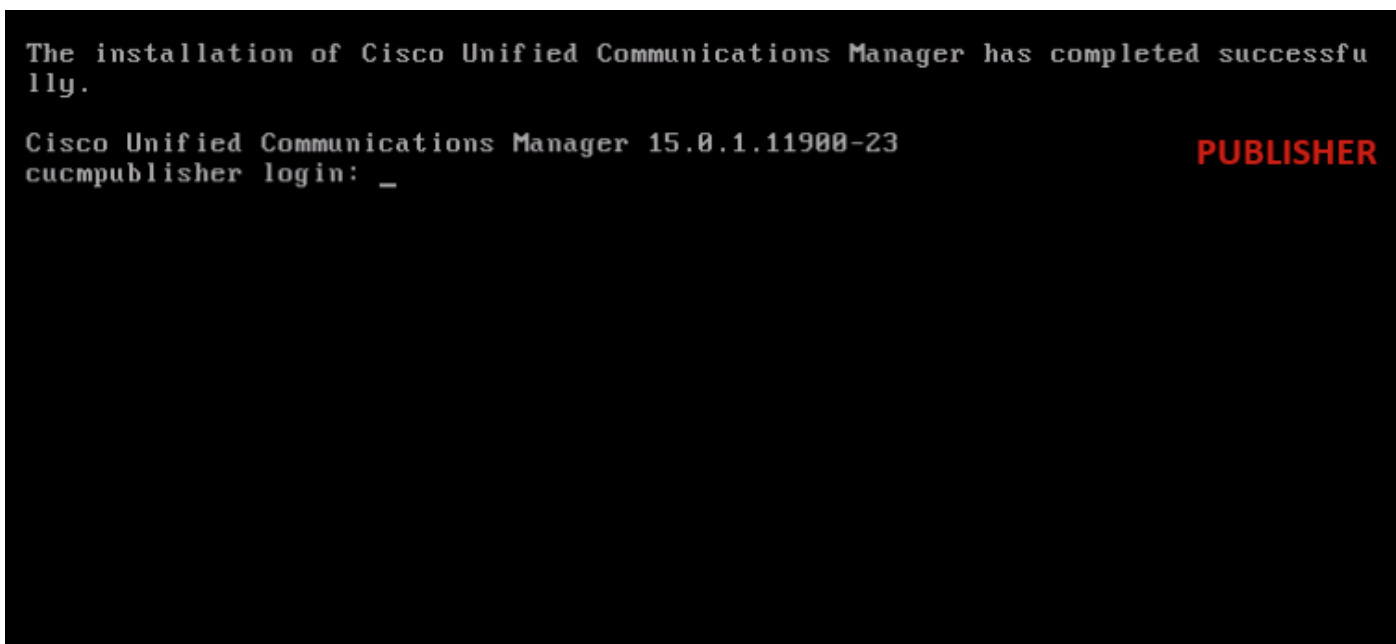
Choose appropriate option under Smart Call Home Enable Page and click the **OK** button.

Click the **OK** button under Platform Configuration Confirmation page to proceed with installation.

Platfrom Configuration Confirmation

After few minutes the installation of the Publisher is finished using the import feature.

*Publisher Installation is Completed Successfully*

Install New Subscriber Using Exported Data

Build a Virtual Machine for the Subscriber using appropriate OVA Template.
Mount 15.0.1.11900-23 version bootable image to the Virtual Machine (VM) and turn ON the VM.
Press **OK** button after the media check is success.

Choose **Cisco Unified Communication Manager** and click the **OK** button.

Press **Yes** button to proceed with installation of 15.0.1.11900-23 version.

Click the **Import** button in the Platform Installation Wizard.
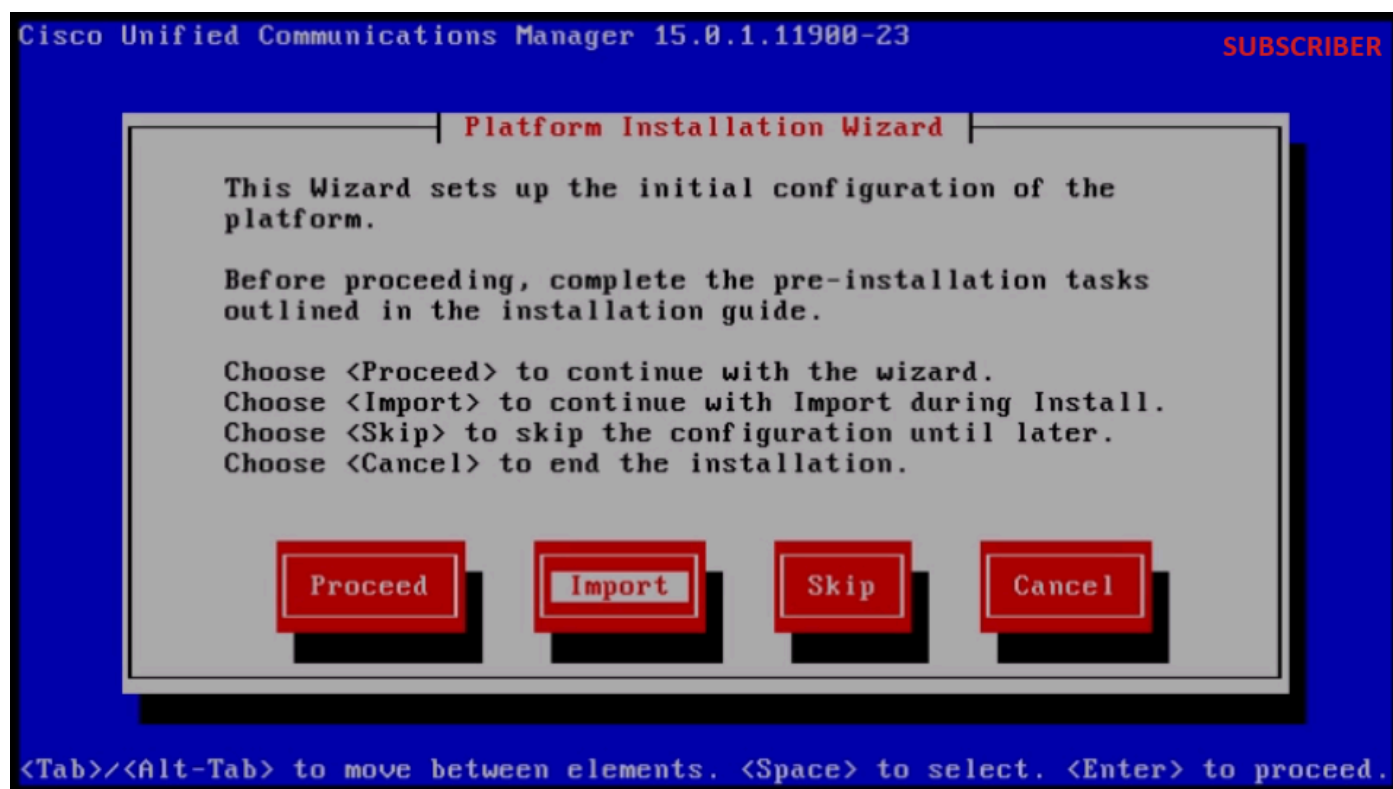
Platform Installation Wizard

After reading the displayed information, click **OK** button in the Import Upgrade Configuration information.
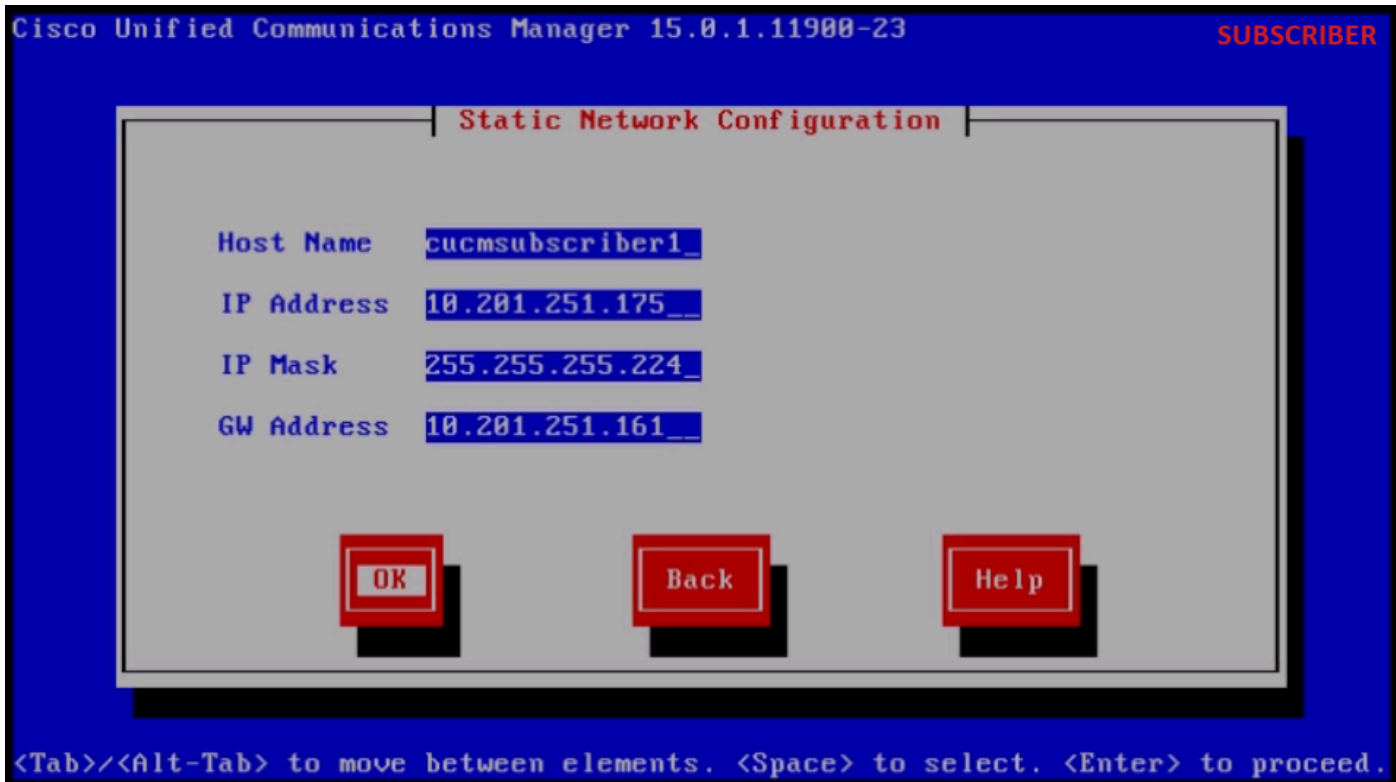
Choose appropriate timezone and then click the **OK** button.

Click the **Continue** button in the Auto Negotiation Configuration.

Click the **No** button to have the default value in MTU Configuration.

Press the **No** button under the DHCP Configuration.

Provide the Host Name, IP Address, IP Mask and Gateway(GW) Address for the Subscriber server and then press the **OK** button.

Static Network Configuration

Click the **Yes** button under the DNS Client Configuration.

Provide the Primary DNS and Domain and then click the **OK** button.
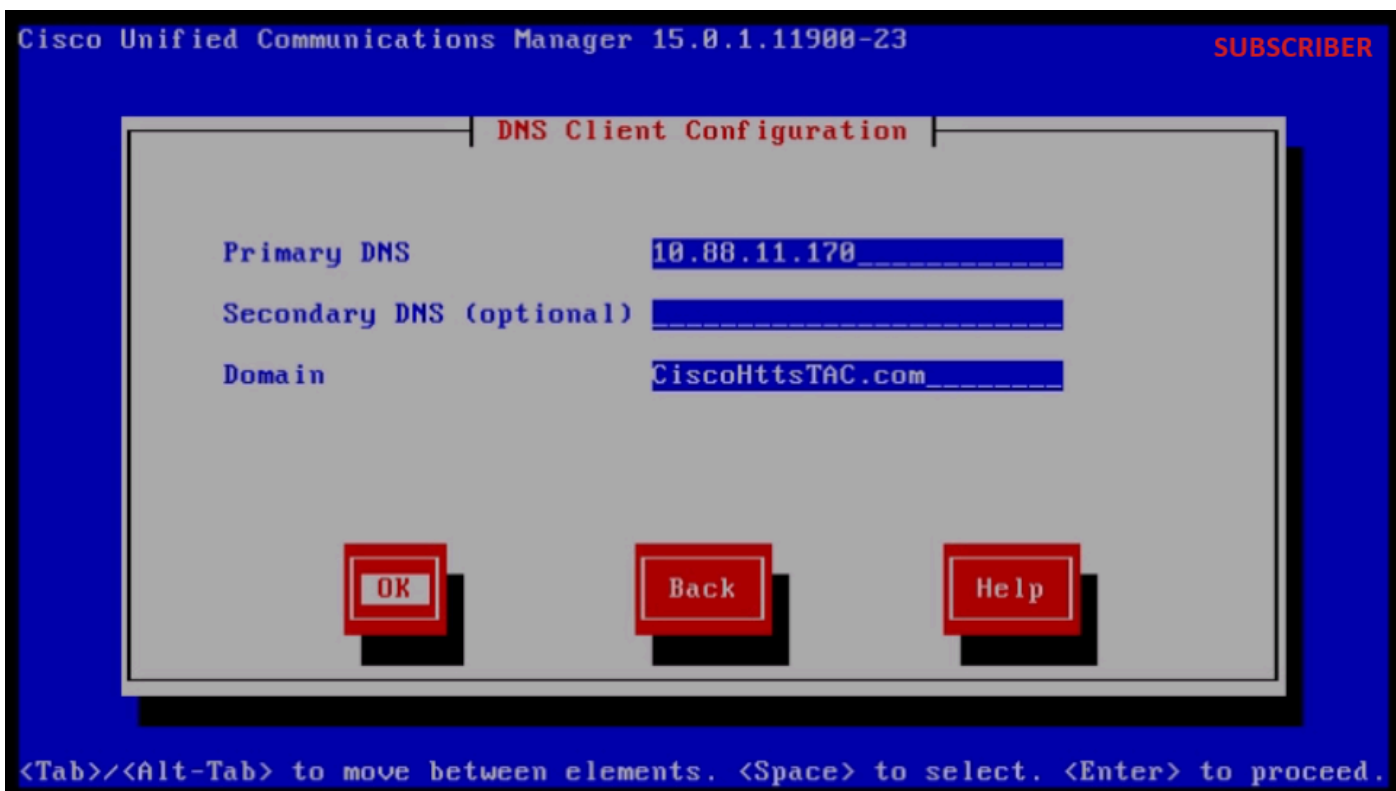
DNS Client Configuration

Provide the SFTP server information (IP, directory, login ID and Password) where we have the exported data of the source cluster and then press the **OK** button.
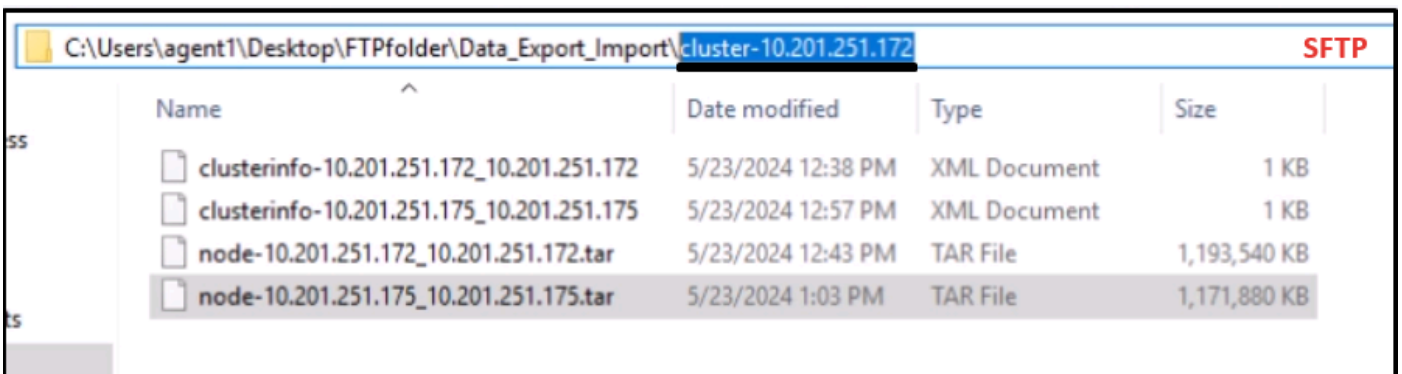
Software Location of Data to Import

Note: Location of the Subscriber exported data is present in the folder **cluster-Publisher_IP_Address** as shown in the screenshot.

	Name	Date modified	Type	Size
	clusterinfo-10.201.251.172_10.201.251.172	5/23/2024 12:38 PM	XML Document	1 KB
	clusterinfo-10.201.251.175_10.201.251.175	5/23/2024 12:57 PM	XML Document	1 KB
	node-10.201.251.172_10.201.251.172.tar	5/23/2024 12:43 PM	TAR File	1,193,540 KB
	node-10.201.251.175_10.201.251.175.tar	5/23/2024 1:03 PM	TAR File	1,171,880 KB

C:\Users\agent1\Desktop\FTPfolder\Data_Export_Import\cluster-10.201.251.172   **SFTP**

Subscriber Exported Data Location in SFTP Server

Provide the Certificate information and click the **OK** button.

Press the **No** button under First Node Configuration.

First Node Configuration

Press **OK** button on the First Node Configuration page.

Click on the **No** button under Network Connectivity Test Configuration page.

Provide the Publisher host name and IP Address in the First Node Access Configuration page and click the **OK** button.
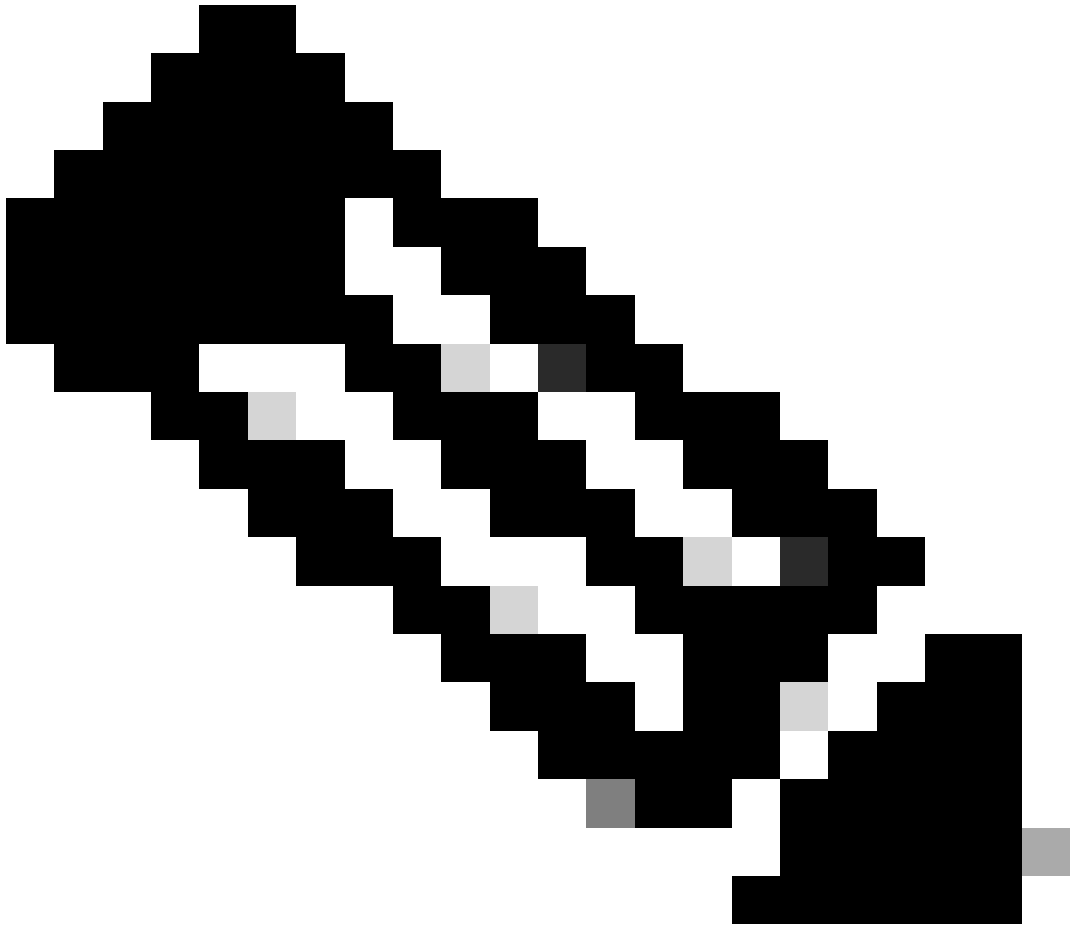
Note: The Security Password is auto-populated via imported data in this page.

First Node Access Configuration

Click the **No** button for SMTP Host Configuration.
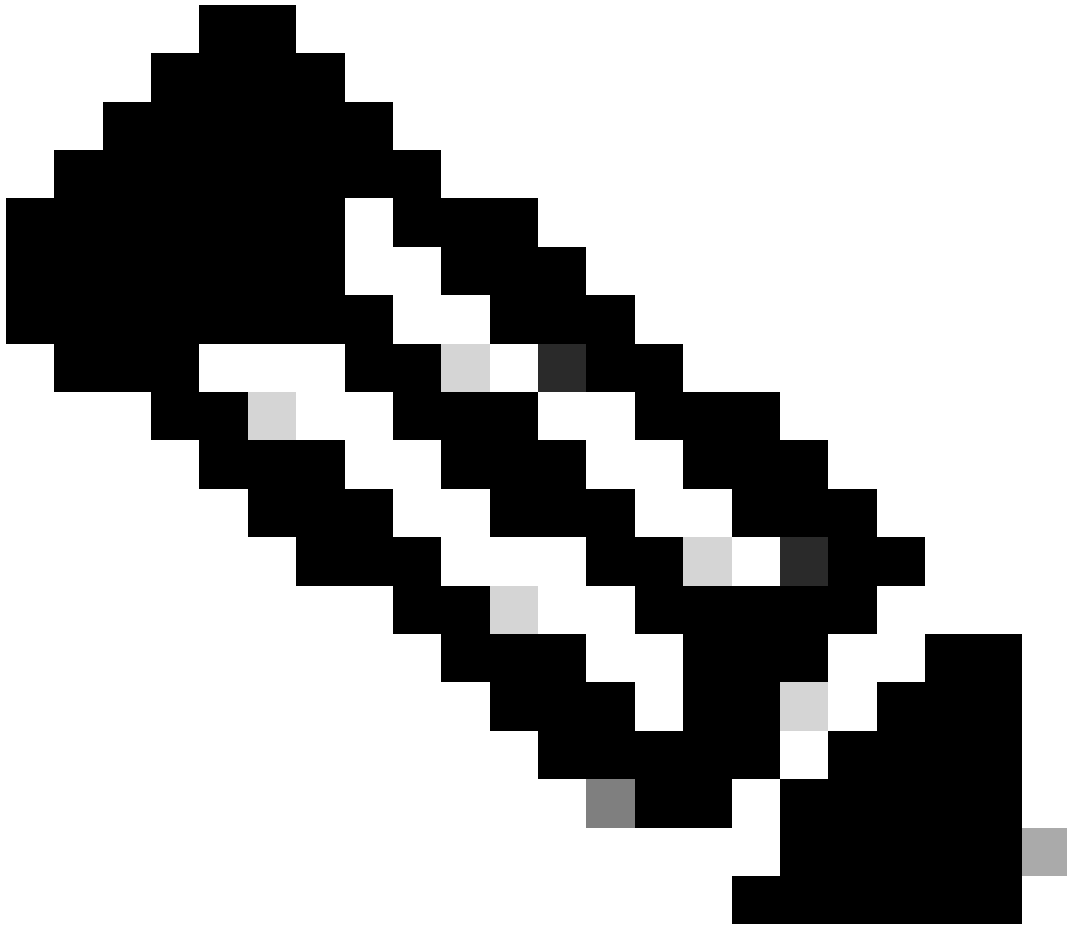
Note: If want to configure SMTP then press Yes button and configure the SMTP host.

Click the **OK** button under Platform Configuration Confirmation page to proceed with installation.

Platform Configuration Confirmation

After few minutes the installation of the Subscriber is successful using import feature.
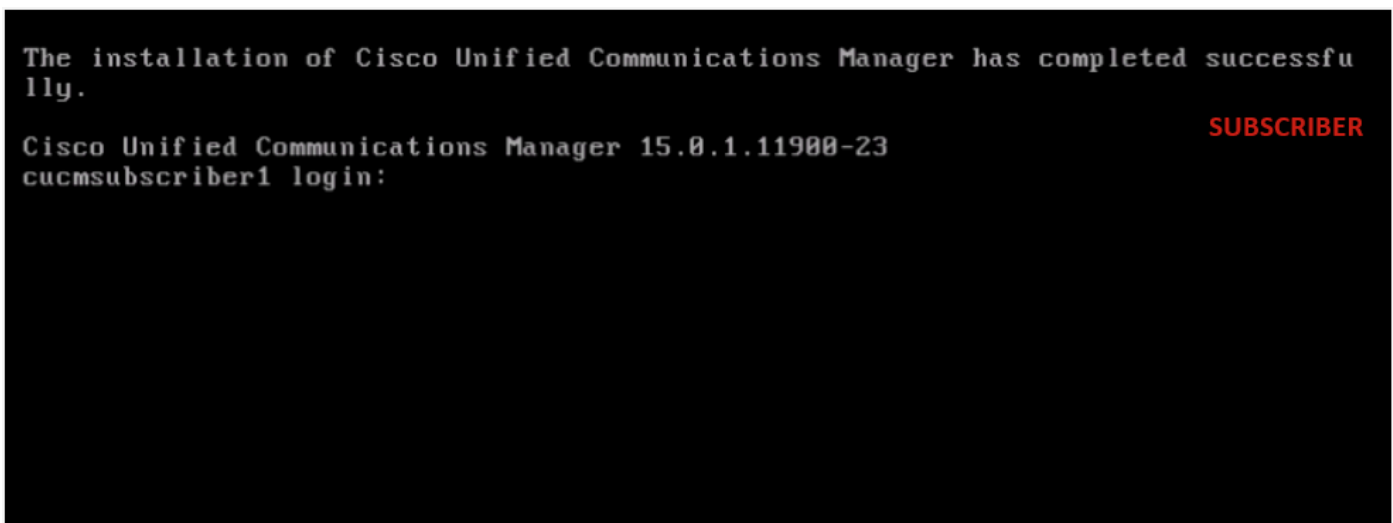
Subscriber Installation is Successful

Verify

After successful installation of the Publisher and Subscriber, run the commands to validate.

show myself
show version active
utils dbreplication runtimestate
file view install system-history.log

PUBLISHER

Publisher Verification

Publisher Verification

Publisher Verification

SUBSCRIBER

Subscriber Verification

Subscriber Verification

Subscriber Verification

Related Information

[Install with Data Import](#)