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 ciscocom.DataExport COP file on each node of the source system.
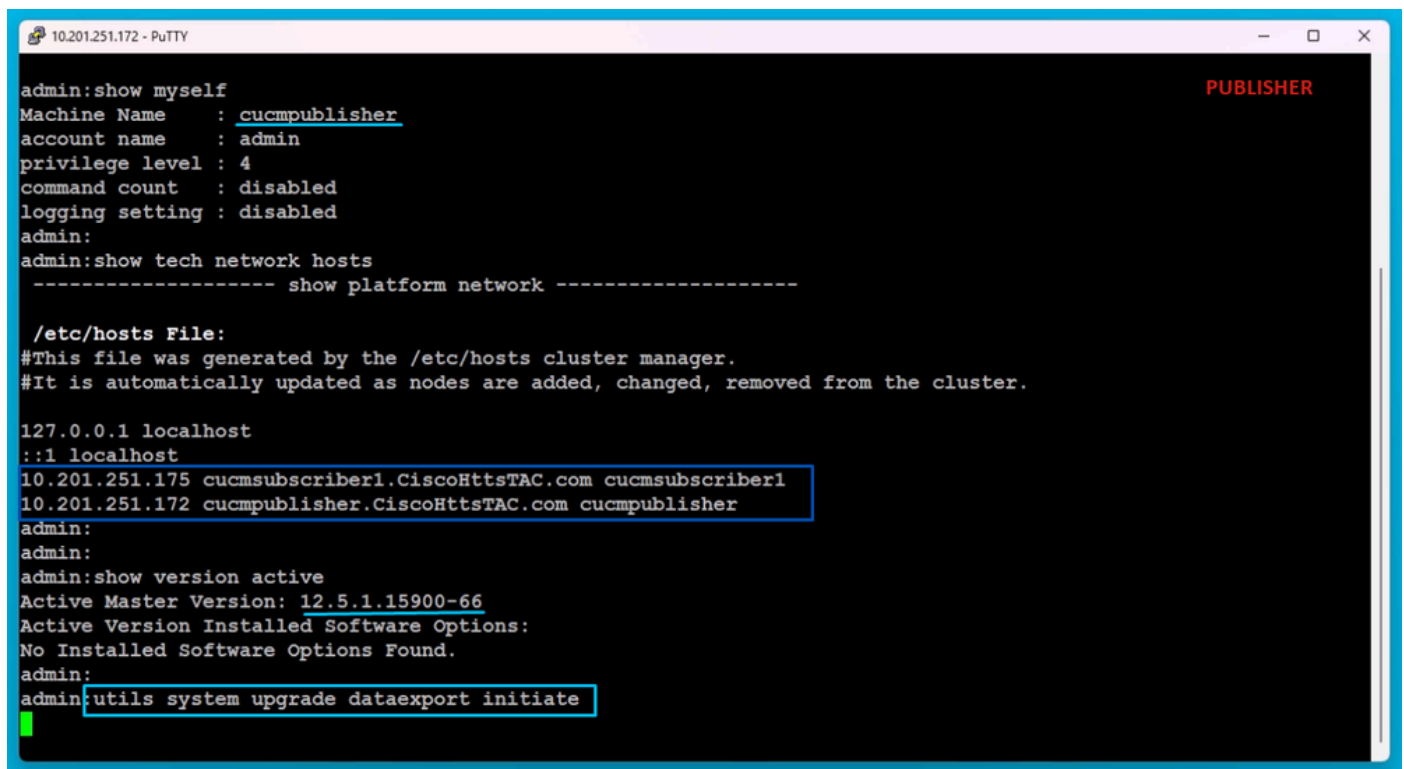
Steps included for CUCM installation using data export and import feature:

- 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.
Log in 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, Iyou use 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.
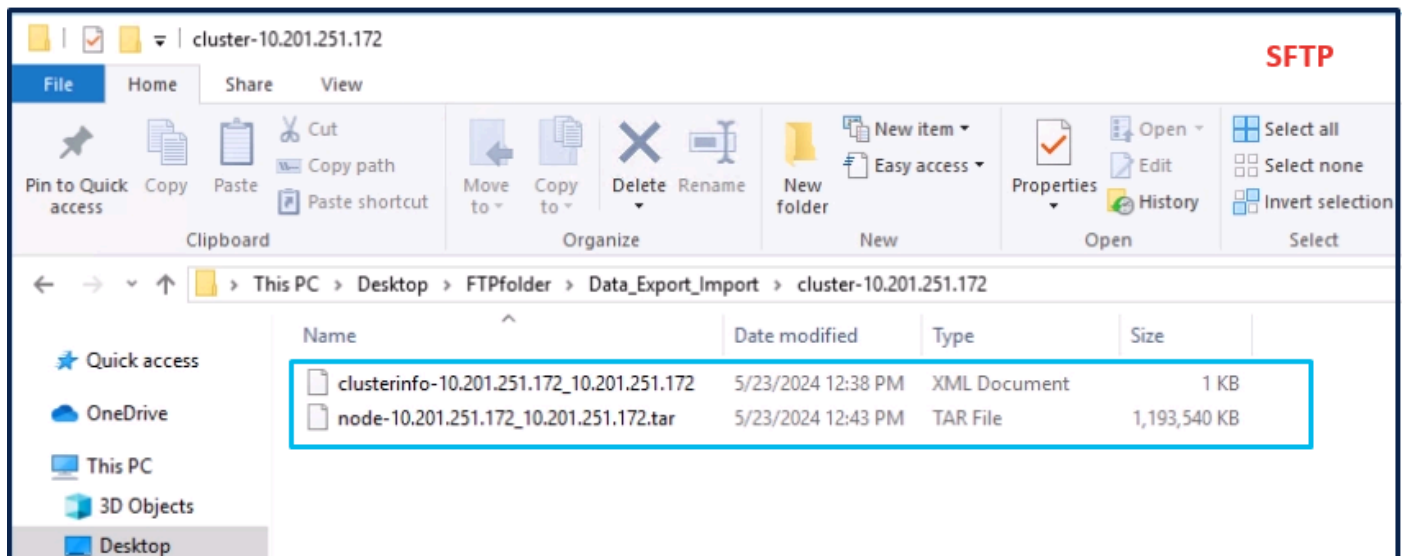

Data Export Progress Check

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.
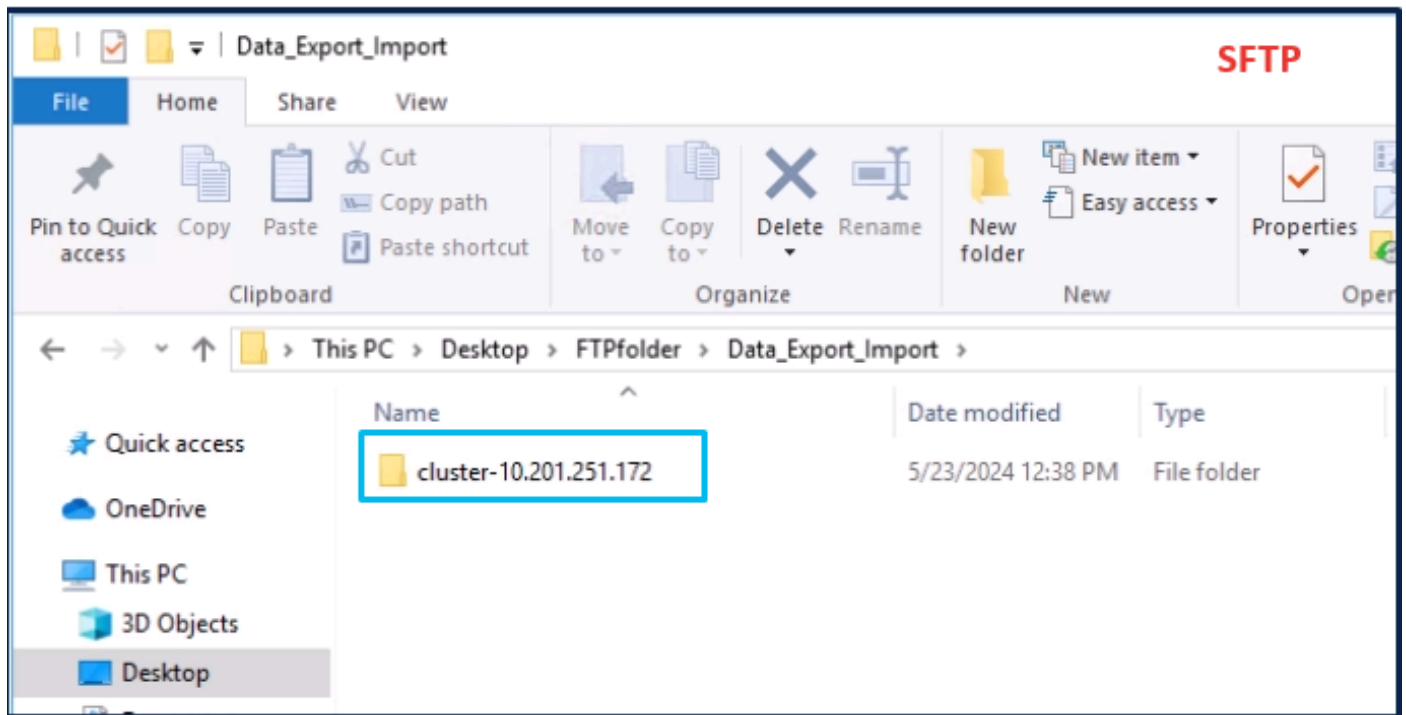
Exported Data Location in the SFTP Server

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 as you did for the Publisher.

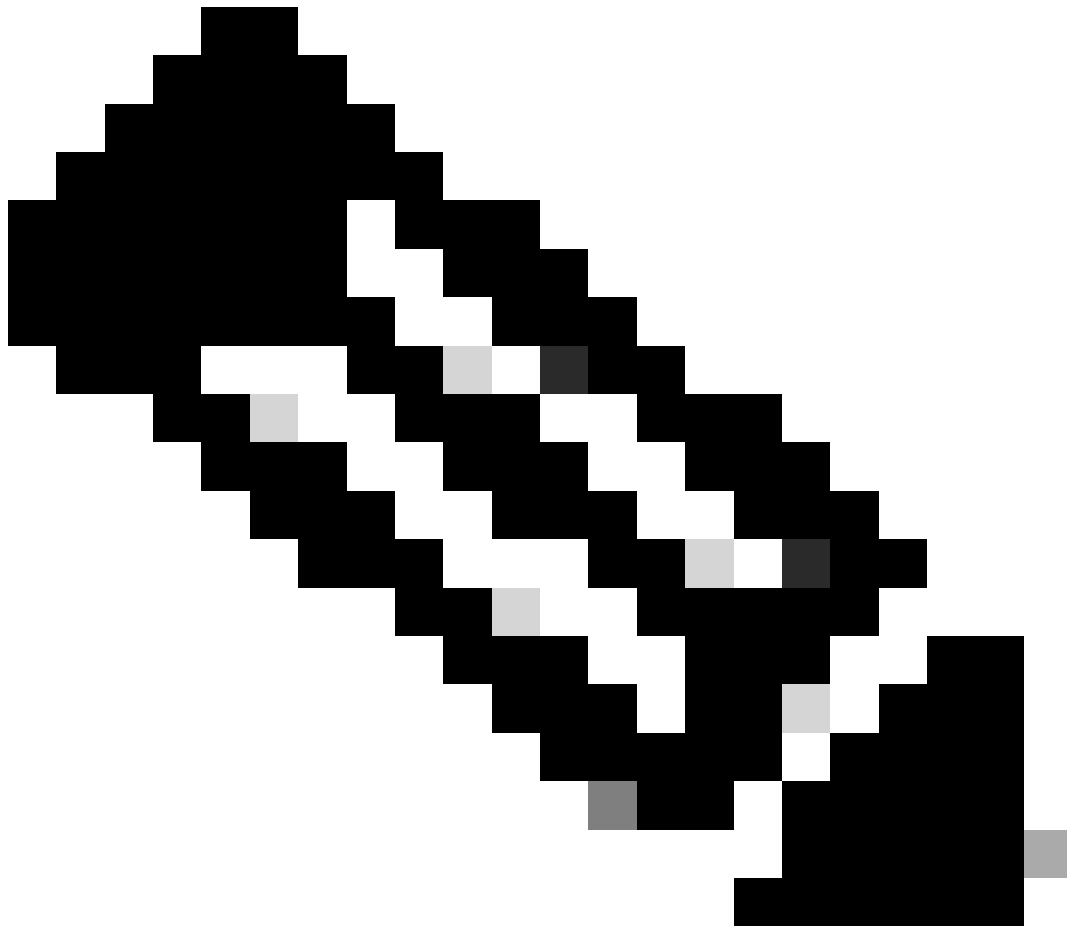Run the command **utils system upgrade dataexport initiate**.

Data Export on the Subscriber

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

Note: In this lab, you use 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.
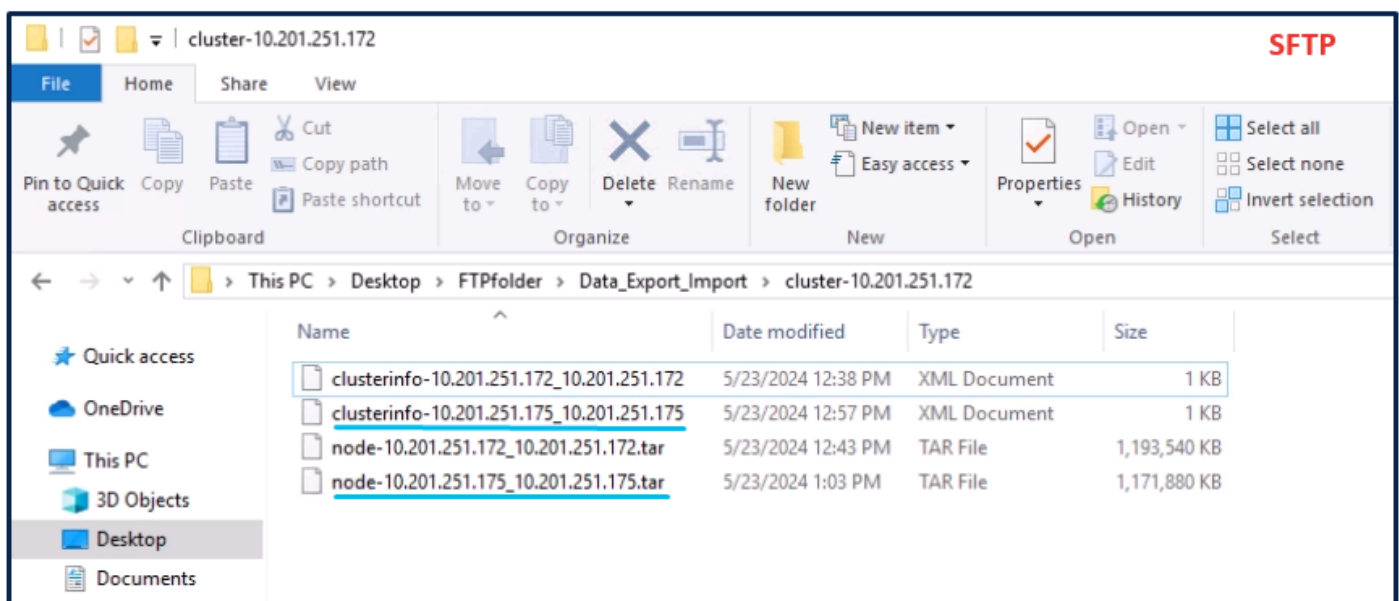
Data Export is Completed for Subscriber

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

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 **OK** button.

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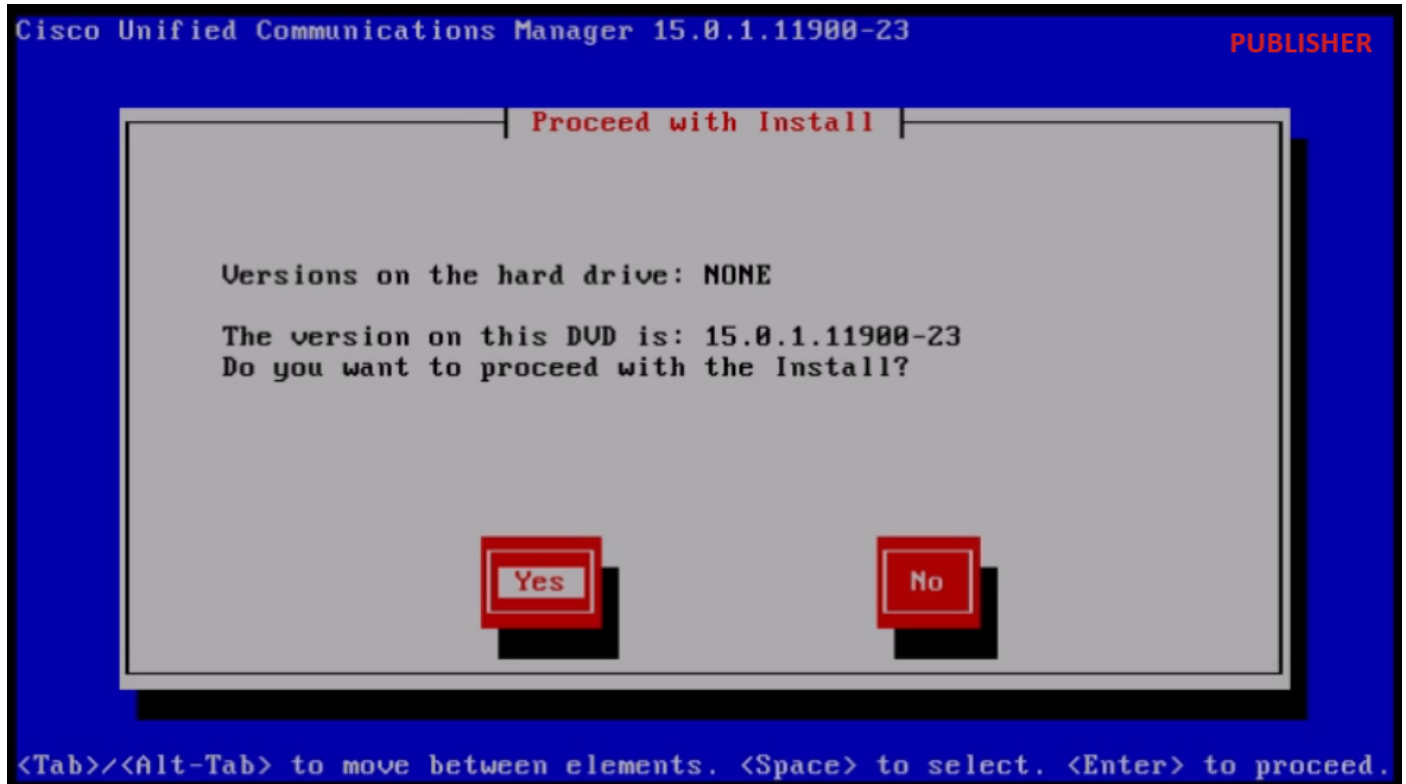
Proceed with Install

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

Platform Installation Wizard

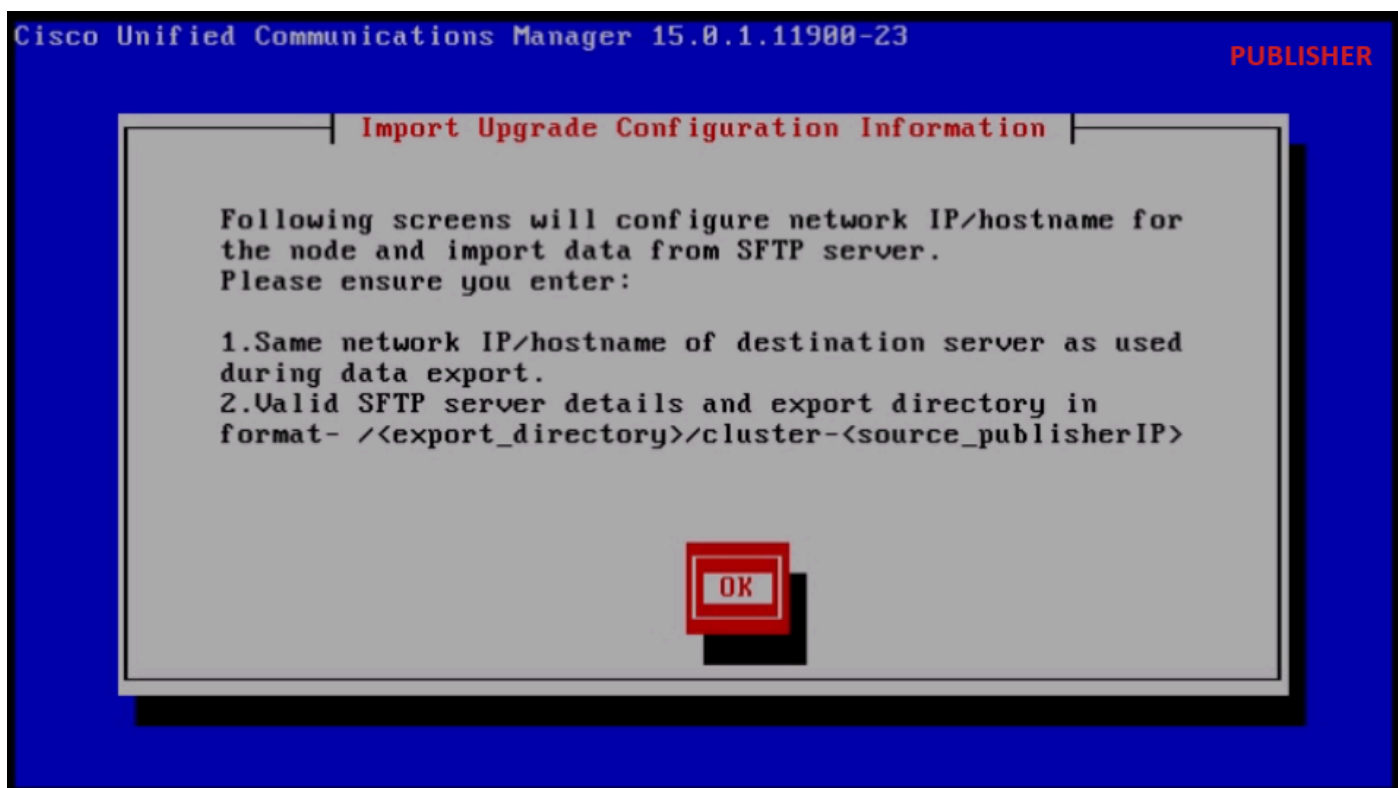After reading the displayed information, click **OK** button in the **Import Upgrade Configuration** information.
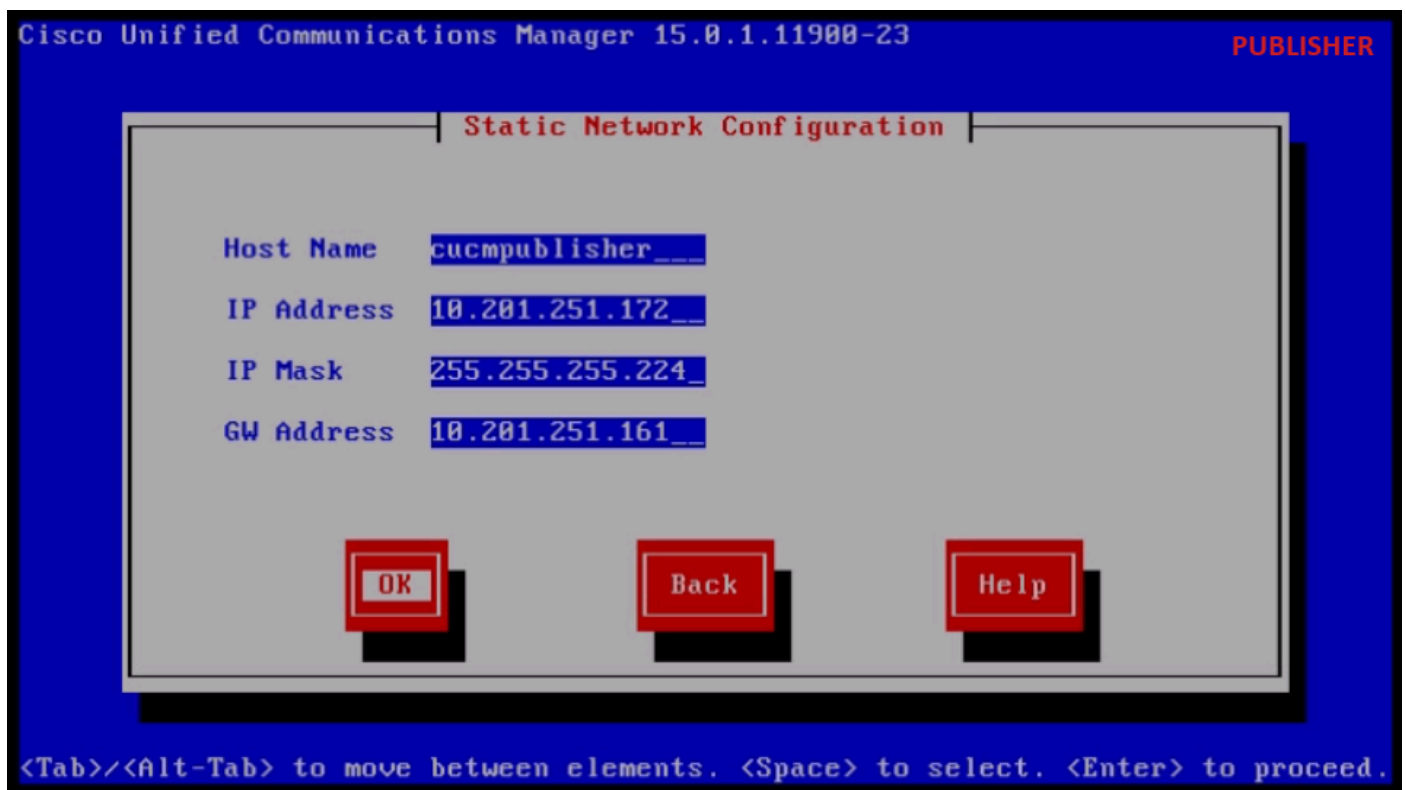

Import Upgrade Configuration Information

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

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

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

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

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

Static Network Configuration

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

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

DNS Client Configuration

Provide the **SFTP server information** (IP, directory, login ID and Password) where you have the exported data of the source cluster and then press **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 **OK** button.

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

First Node Configuration

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

NTP Client Configuration

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

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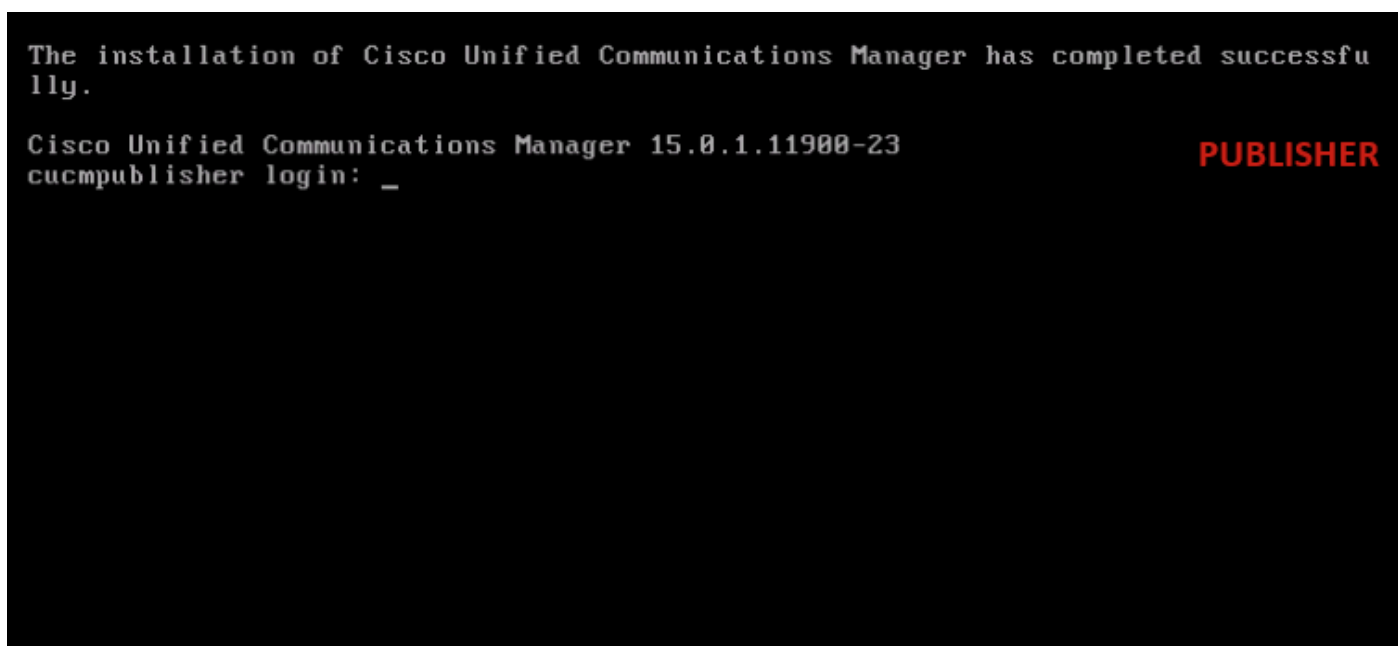
Choose appropriate **option** under **Smart Call Home Enable Page** and click **OK** button.

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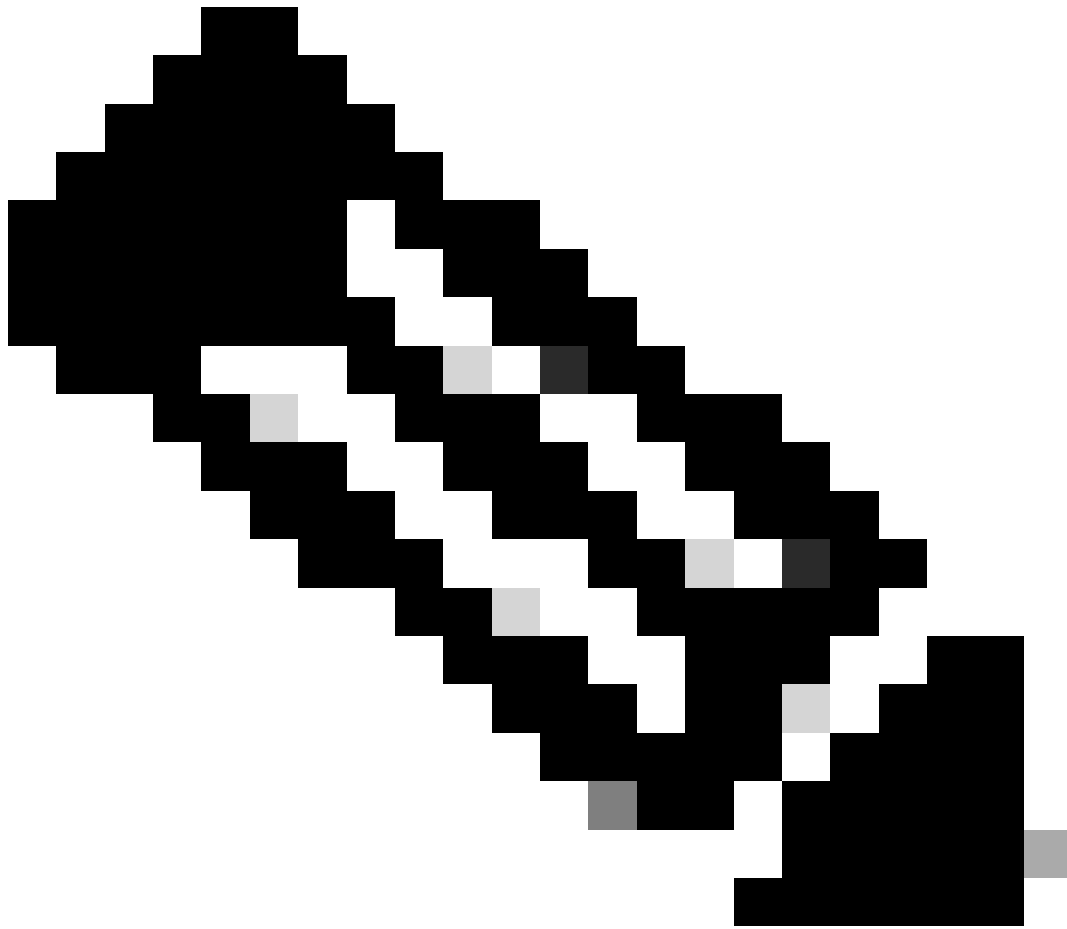
Platfrom Configuration Confirmation

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

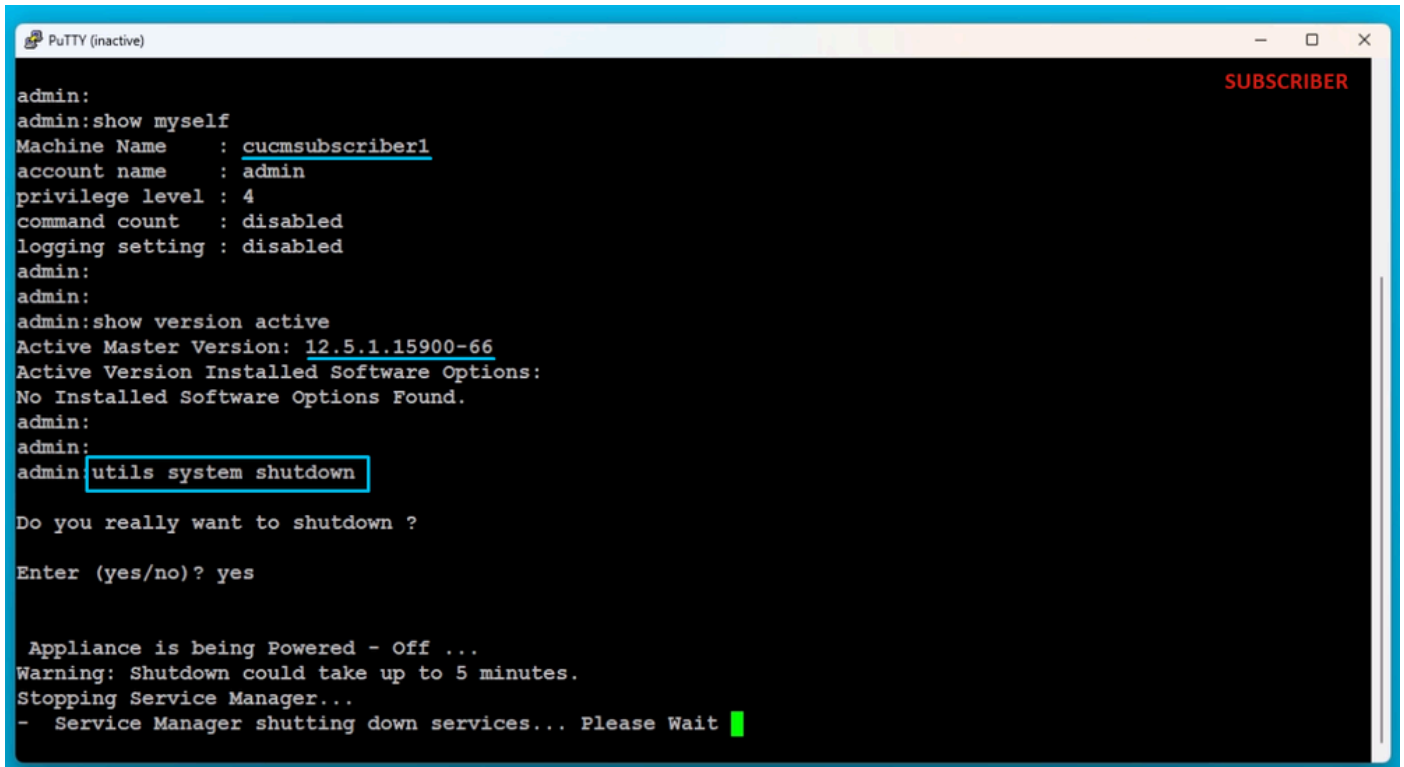*Publisher Installation is Completed Successfully*

Shutdown the Source Cluster Subscriber

Note: There is no need to shut down all the subscriber nodes in the cluster in one go. You can shut down only the specific subscriber to which you are performing the import operation.

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

Shutdown the Subscriber

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 **OK** button.

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

Click **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 **OK** button.

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

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

Press **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 **OK** button.

Static Network Configuration

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

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

DNS Client Configuration

Provide the **SFTP server information** (IP, directory, login ID and Password) where you have the exported data of the source cluster and then press **OK** button.

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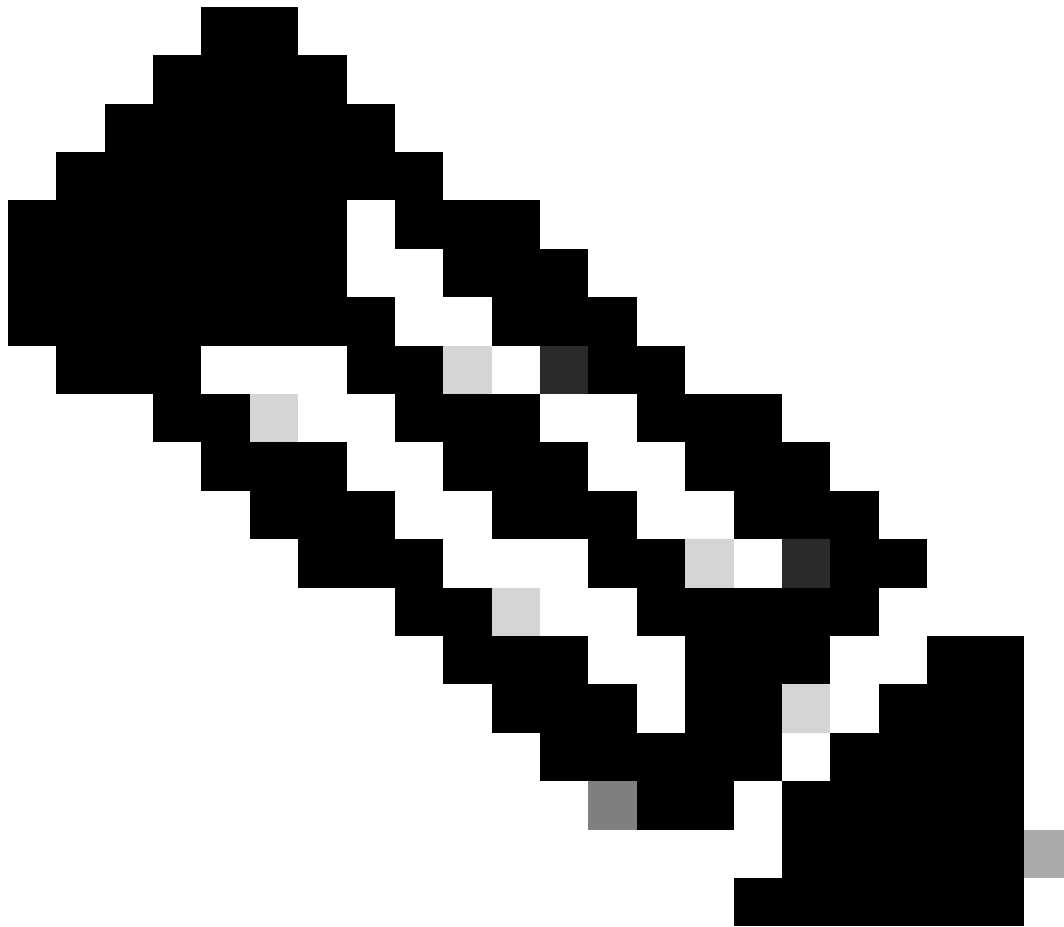
Note: Location of the Subscriber exported data is present in the folder **cluster-Publisher_IP_Address** as shown in the screenshot.

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

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

Subscriber Exported Data Location in SFTP Server

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

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

First Node Configuration

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

Click **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 **OK** button.
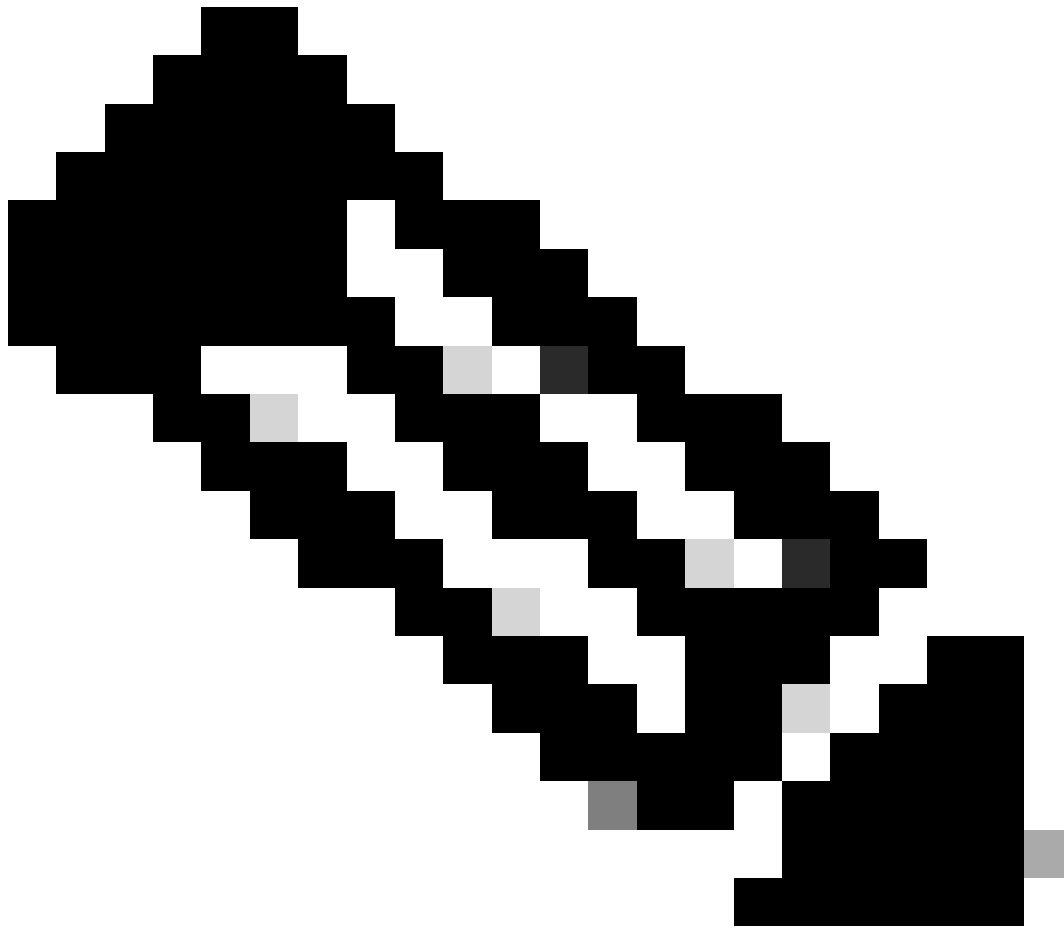
Note: The Security Password is auto-populated via imported data in this page.

First Node Access Configuration

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

Note: If want to configure SMTP, then press **Yes** button and configure the **SMTP host**.

Click **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.
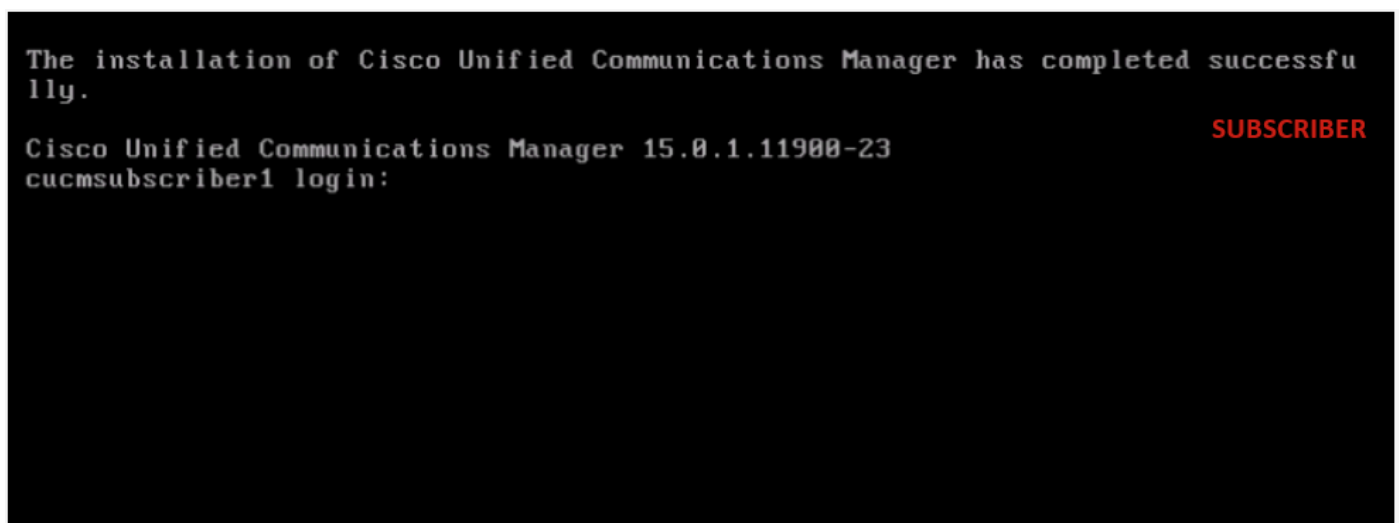
Subscriber Installation is Successful

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

- [Installation Guide for Cisco Unified Communications Manager and the IM and Presence Service, Release 14](#)