

Install CUCM Cluster Using Data Export and Import Feature

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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 [ciscoem.DataExport](#) COP file on each node of the source system.

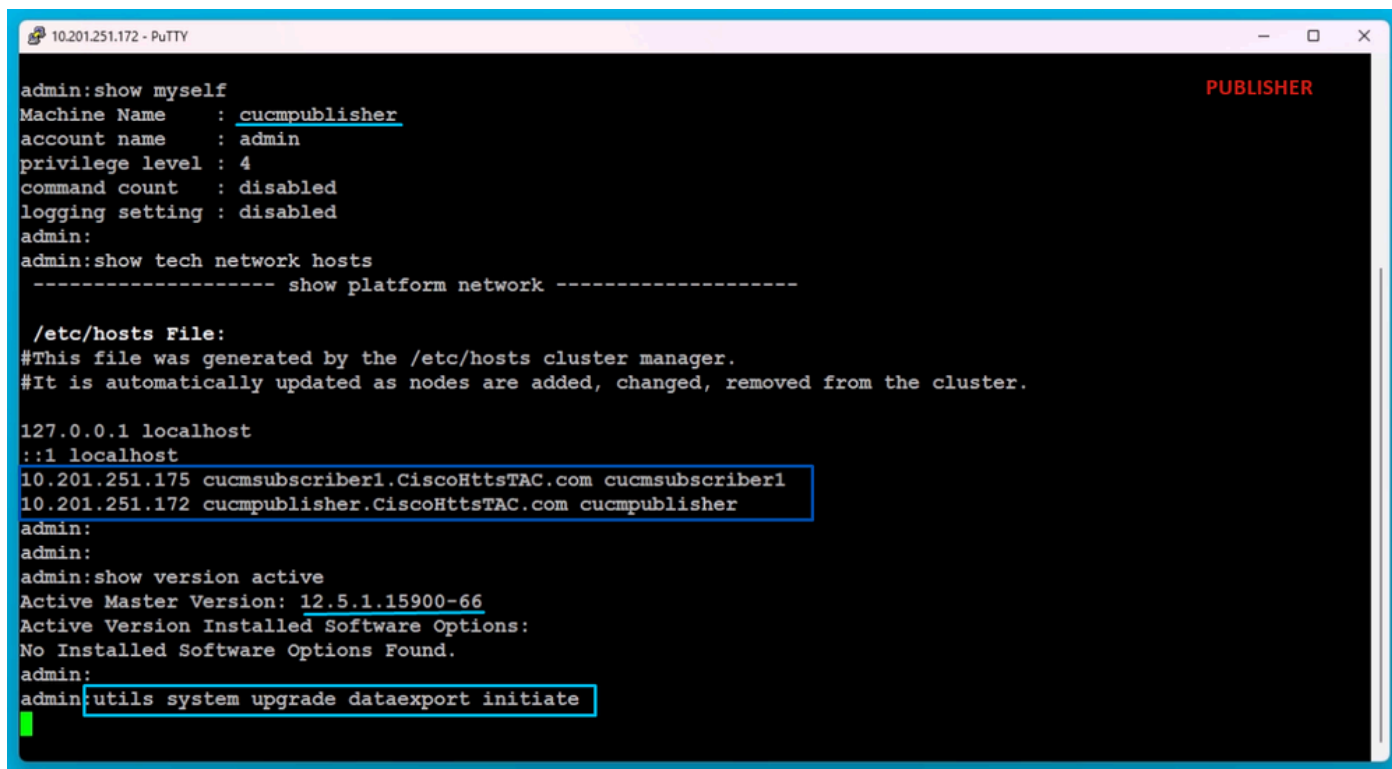
Steps included for CUCM installation using data export and import feature:

- 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**.



```
10.201.251.172 - PuTTY
admin:show myself
Machine Name      : cucmpublisher
account name     : admin
privilege level  : 4
command count    : disabled
logging setting  : disabled
admin:
admin:show tech network hosts
----- show platform network -----

/etc/hosts File:
#This file was generated by the /etc/hosts cluster manager.
#It is automatically updated as nodes are added, changed, removed from the cluster.

127.0.0.1 localhost
::1 localhost
10.201.251.175 cucmsubscriber1.CiscoHttstAC.com cucmsubscriber1
10.201.251.172 cucmpublisher.CiscoHttstAC.com cucmpublisher
admin:
admin:
admin:show version active
Active Master Version: 12.5.1.15900-66
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin: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.

```
10.201.251.172 - PuTTY
10.201.251.175 cucmssubscriber1.CiscoHttsTAC.com cucmssubscriber1
10.201.251.172 cucmpublisher.CiscoHttsTAC.com cucmpublisher PUBLISHER
admin:
admin:
admin:show version active
Active Master Version: 12.5.1.15900-66
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin:utils system upgrade dataexport initiate

Warning: Before upgrading the cluster Cisco recommends installing the latest Upgrade Readiness COP file. Refer
to the Upgrade Guide on cisco.com for details.

Warning: The data export process would take anywhere between a few minutes to about 30 minutes to complete. Thi
s export time depends on the data configuration and network speed. Do not close this window without first cancel
ling the system migrate export operation.

Export Data Directory [/]: /
Remote Server Name or IP [10.201.251.189]: 10.201.251.189
Remote Server Login ID [cisco]: cisco
Remote Server Password: ****
Enter details of the destination node that will import the current node's exported data :

New Hostname []: cucmpublisher
New IPAddress []: 10.201.251.172
Would you like to proceed with export (yes/no): yes

Processing data export.....
```

Processing Data Export

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

```
10.201.251.172 - PuTTY
Processing data export..... PUBLISHER

Type      : DATAEXPORT
Status    : RUNNING
Log file  : /var/log/install/static_data_export_2024-05-23-12-36-05.log
Execution date : Thu May 23 12:36:05 2024
Status message : System Static Data Export operation is in progress.

Exporting data to this software location, with these credentials:
Server    : 10.201.251.189
Directory : /
User      : cisco

admin:
admin:utils system upgrade dataexport status

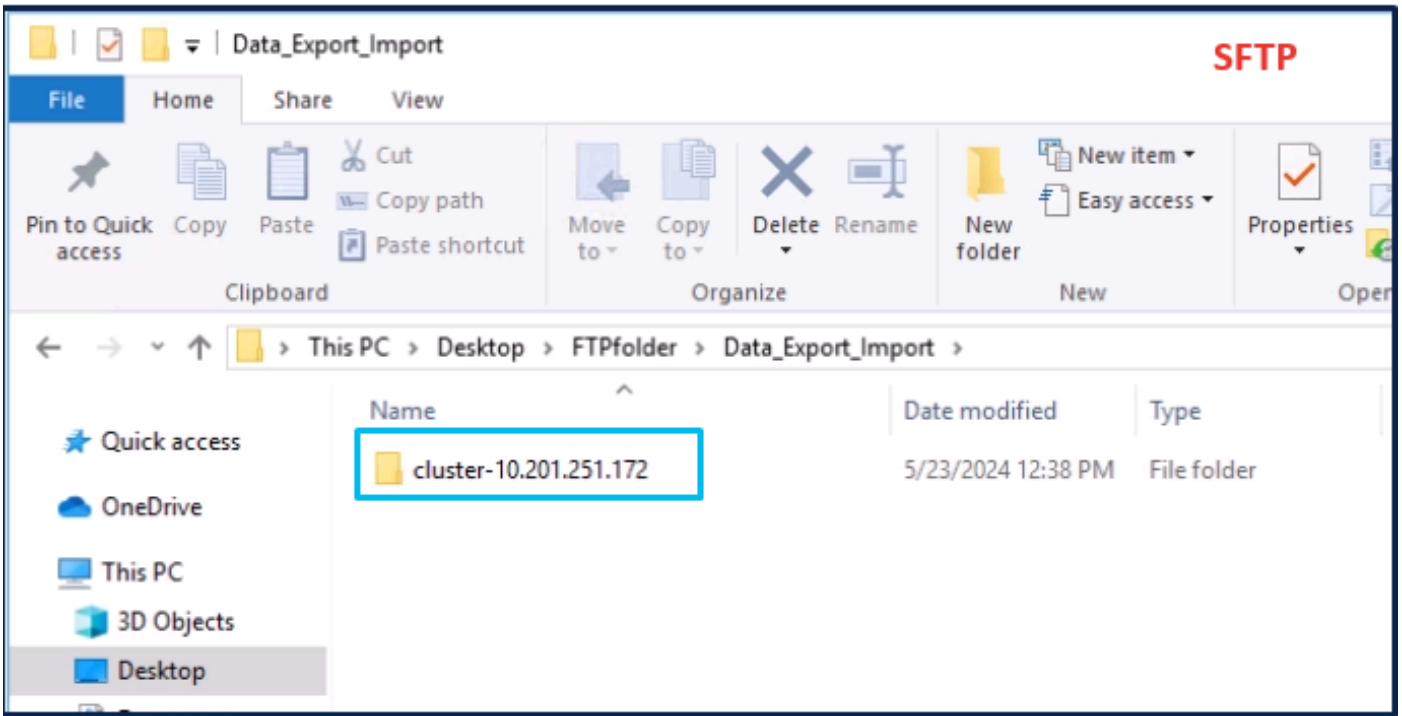
Type      : DATAEXPORT
Status    : RUNNING
Log file  : /var/log/install/static_data_export_2024-05-23-12-36-05.log
Execution date : Thu May 23 12:36:05 2024
Status message : System Static Data Export operation is in progress.

Exporting data to this software location, with these credentials:
Server    : 10.201.251.189
Directory : /
User      : cisco

admin:
admin:
```

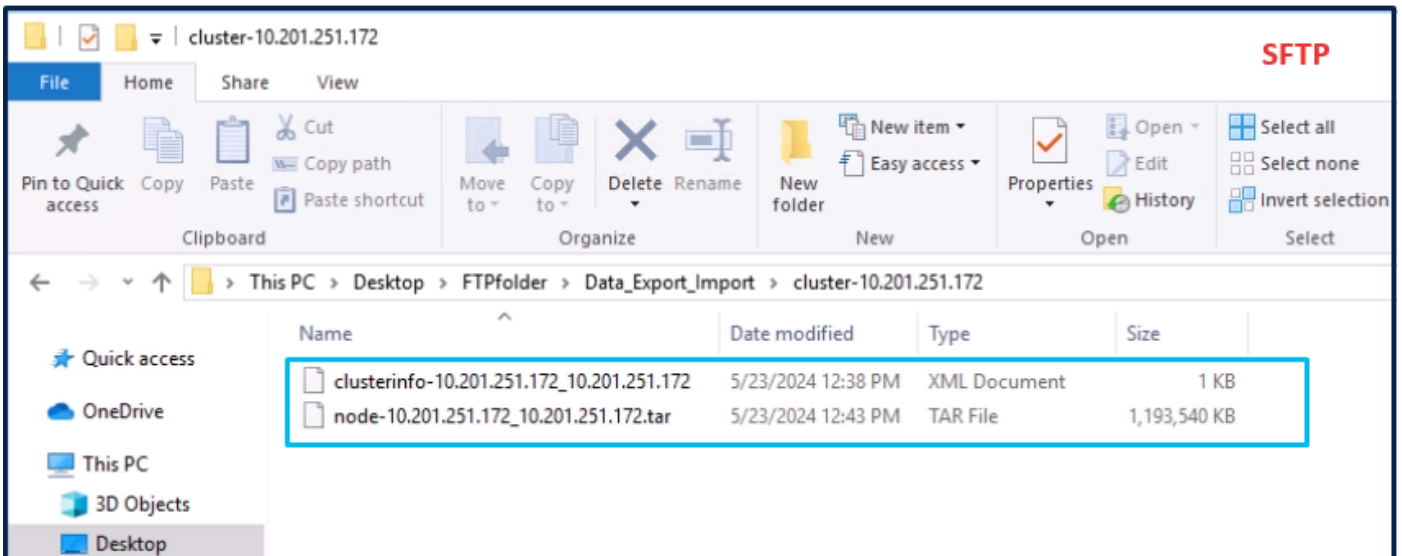
Data Export Progress Check

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

```
10.201.251.172 - PuTTY
admin:utils system upgrade dataexport status

Type      : DATAEXPORT
Status    : RUNNING
Log file   : /var/log/install/static_data_export_2024-05-23-12-36-05.log
Execution date : Thu May 23 12:36:05 2024
Status message : System Static Data Export operation is in progress.

Exporting data to this software location, with these credentials:
Server    : 10.201.251.189
Directory : /
User      : cisco

admin:
admin:
admin:utils system upgrade dataexport status

Type      : DATAEXPORT
Status    : COMPLETED
Log file   : /var/log/install/static_data_export_2024-05-23-12-36-05.log
Execution date : Thu May 23 12:36:05 2024
Status message : Migrate export completed successfully.

Exporting data to this software location, with these credentials:
Server    : 10.201.251.189
Directory : /
User      : cisco

admin:
```

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**.

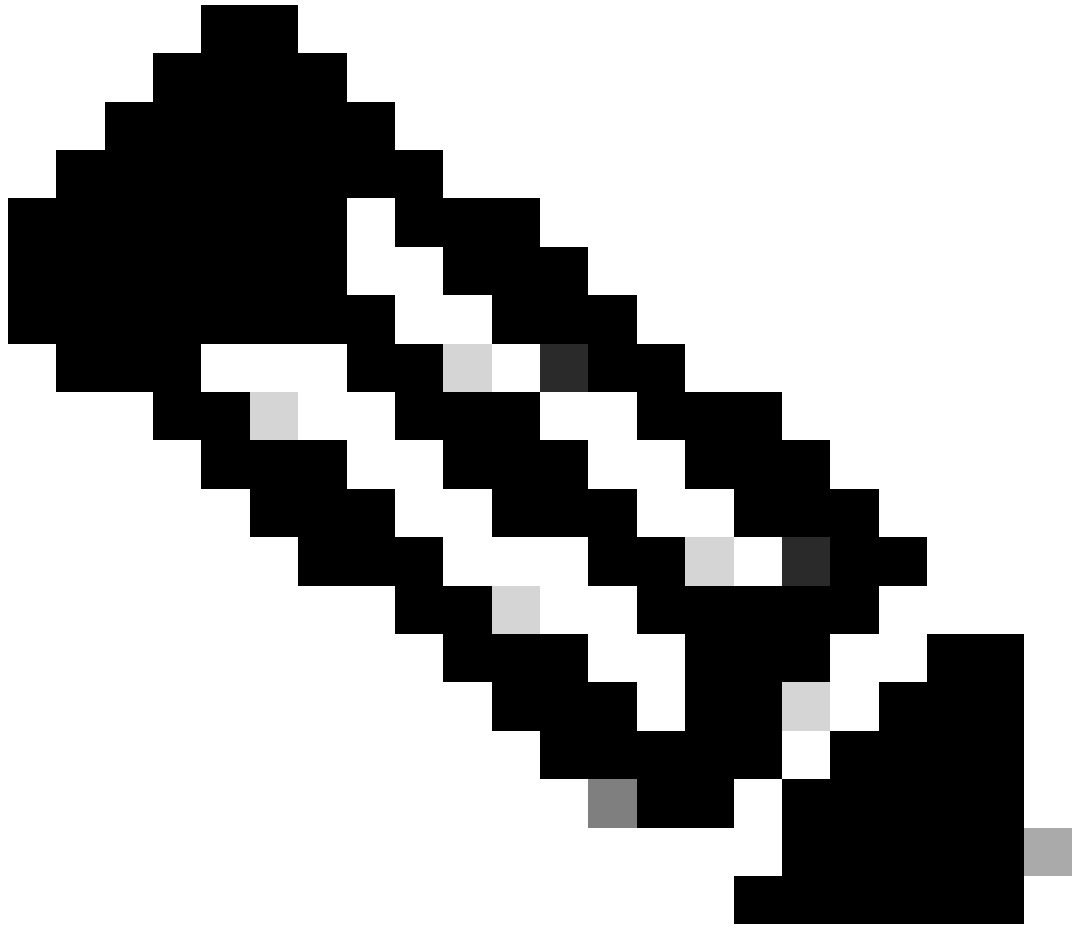
```
10.201.251.175 - PuTTY
admin:show myself
Machine Name : cucmssubscriber1
account name : admin
privilege level : 4
command count : disabled
logging setting : disabled
admin:
admin:show tech network hosts
----- show platform network -----

/etc/hosts File:
#This file was generated by the /etc/hosts cluster manager.
#It is automatically updated as nodes are added, changed, removed from the cluster.

127.0.0.1 localhost
::1 localhost
10.201.251.175 cucmssubscriber1.CiscoHttpsTAC.com cucmssubscriber1
10.201.251.172 cucmpublisher.CiscoHttpsTAC.com cucmpublisher
admin:
admin:
admin:show version active
Active Master Version: 12.5.1.15900-66
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin: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.

```
10.201.251.175 - PuTTY
10.201.251.175 cucmssubscriber1.CiscoHttstAC.com cucmssubscriber1
10.201.251.172 cucmpublisher.CiscoHttstAC.com cucmpublisher
admin:
admin:
admin:show version active
Active Master Version: 12.5.1.15900-66
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin:utils system upgrade dataexport initiate

Warning: Before upgrading the cluster Cisco recommends installing the latest Upgrade Readiness COP file. Refer
to the Upgrade Guide on cisco.com for details.

Warning: The data export process would take anywhere between a few minutes to about 30 minutes to complete. Thi
s export time depends on the data configuration and network speed. Do not close this window without first cance
ling the system migrate export operation.

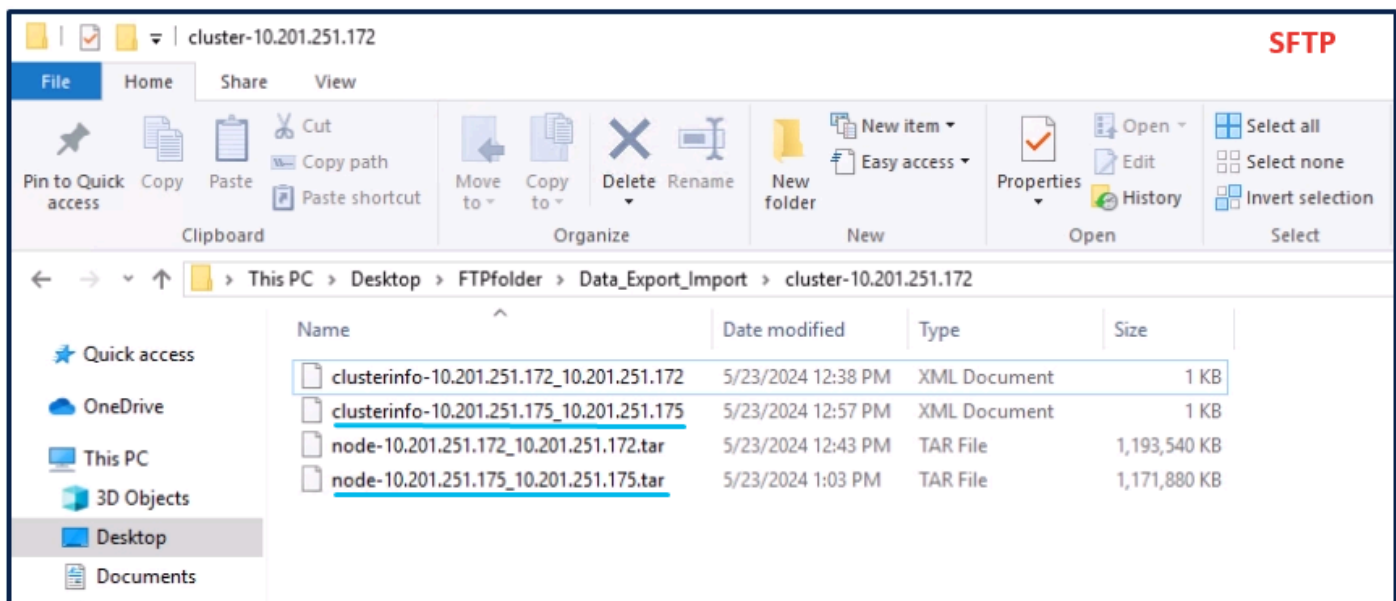
Export Data Directory [/]: /
Remote Server Name or IP [10.201.251.189]: 10.201.251.189
Remote Server Login ID [cisco]: cisco
Remote Server Password: ****
Enter details of the destination node that will import the current node's exported data :

New Hostname []: cucmssubscriber1
New IPAddress []: 10.201.251.175
Would you like to proceed with export (yes/no): yes

Processing data export.....
```

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**.


```
10.201.251.175 - PuTTY
Type : DATAEXPORT
Status : RUNNING
Log file : /var/log/install/static_data_export_2024-05-23-12-56-10.log
Execution date : Thu May 23 12:56:10 2024
Status message : System Static Data Export operation is in progress.

Exporting data to this software location, with these credentials:
Server : 10.201.251.189
Directory : /
User : cisco

admin:
admin:
admin: utils system upgrade dataexport status

Type : DATAEXPORT
Status : COMPLETED
Log file : /var/log/install/static_data_export_2024-05-23-12-56-10.log
Execution date : Thu May 23 12:56:10 2024
Status message : Migrate export completed successfully.

Exporting data to this software location, with these credentials:
Server : 10.201.251.189
Directory : /
User : cisco

admin:
admin:
admin:
```

Data Export is Completed for Subscriber

Shutdown the Source Cluster Publisher

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

```
PuTTY (inactive)
admin:show myself
Machine Name : cucmpublisher
account name : admin
privilege level : 4
command count : disabled
logging setting : disabled
admin:
admin:show version active
Active Master Version: 12.5.1.15900-66
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin:
admin: utils system shutdown

Do you really want to shutdown ?

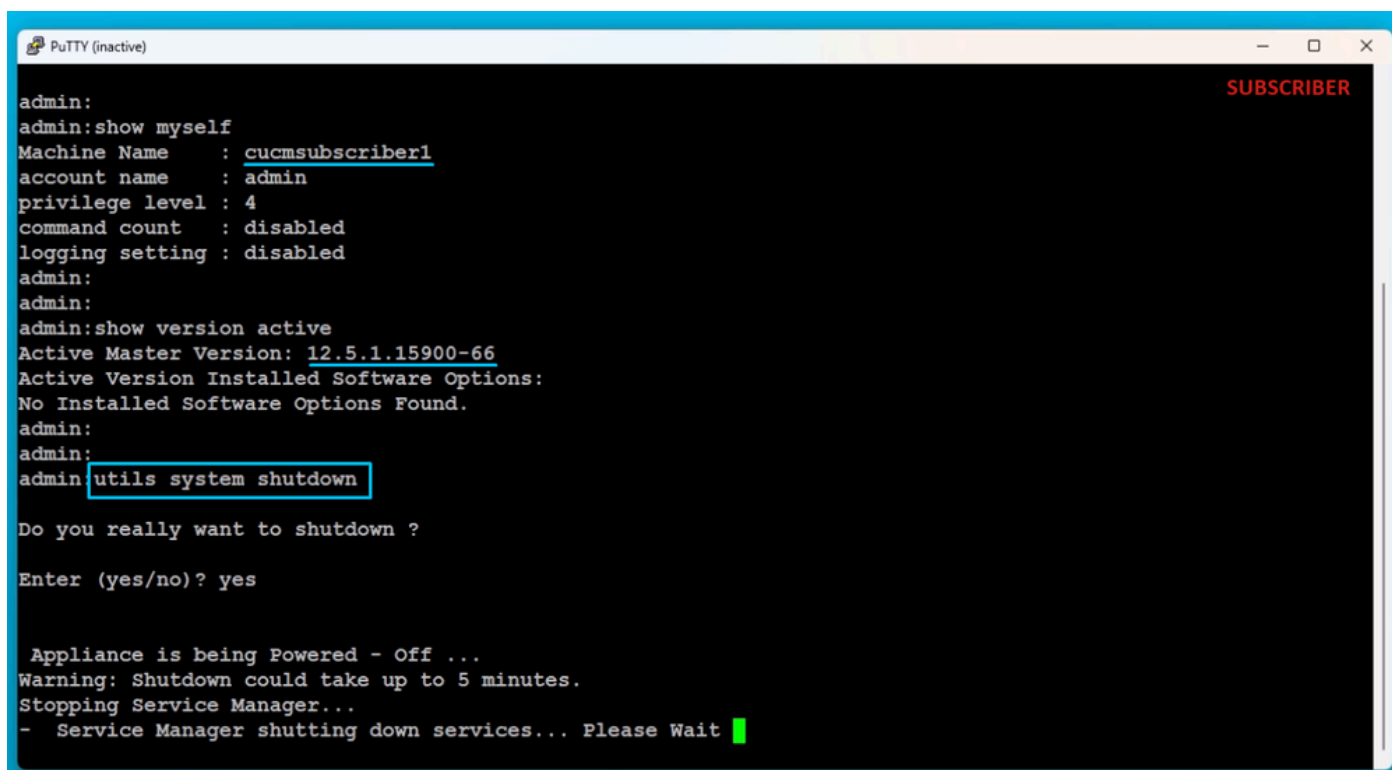
Enter (yes/no)? yes

Appliance is being Powered - Off ...
Warning: Shutdown could take up to 5 minutes.
Stopping Service Manager...
- Service Manager shutting down services... Please Wait Waiting
```

Shutdown the Publisher

Shutdown the Source Cluster Subscriber

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



```
admin:
admin:show myself
Machine Name      : cucmssubscriber1
account name     : admin
privilege level  : 4
command count    : disabled
logging setting  : disabled
admin:
admin:
admin:show version active
Active Master Version: 12.5.1.15900-66
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin:
admin: utils system shutdown

Do you really want to shutdown ?

Enter (yes/no)? yes

Appliance is being Powered - Off ...
Warning: Shutdown could take up to 5 minutes.
Stopping Service Manager...
- Service Manager shutting down services... Please Wait █
```

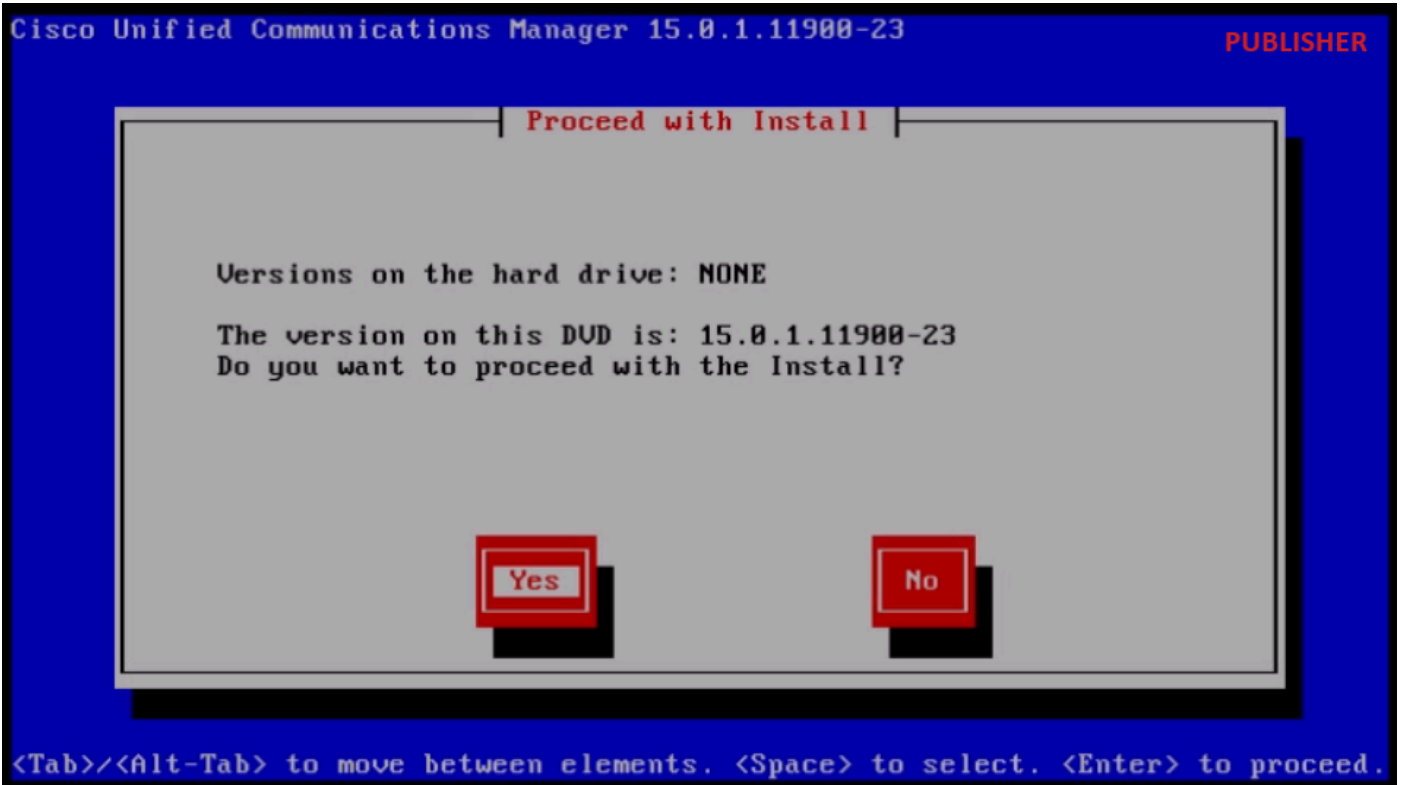
Shutdown the Subscriber

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

Following screens will configure network IP/hostname for the node and import data from SFTP server.
Please ensure you enter:

1. Same network IP/hostname of destination server as used during data export.
2. Valid SFTP server details and export directory in format- /<export_directory>/cluster-<source_publisherIP>

*Import Upgrade Configuration Information*

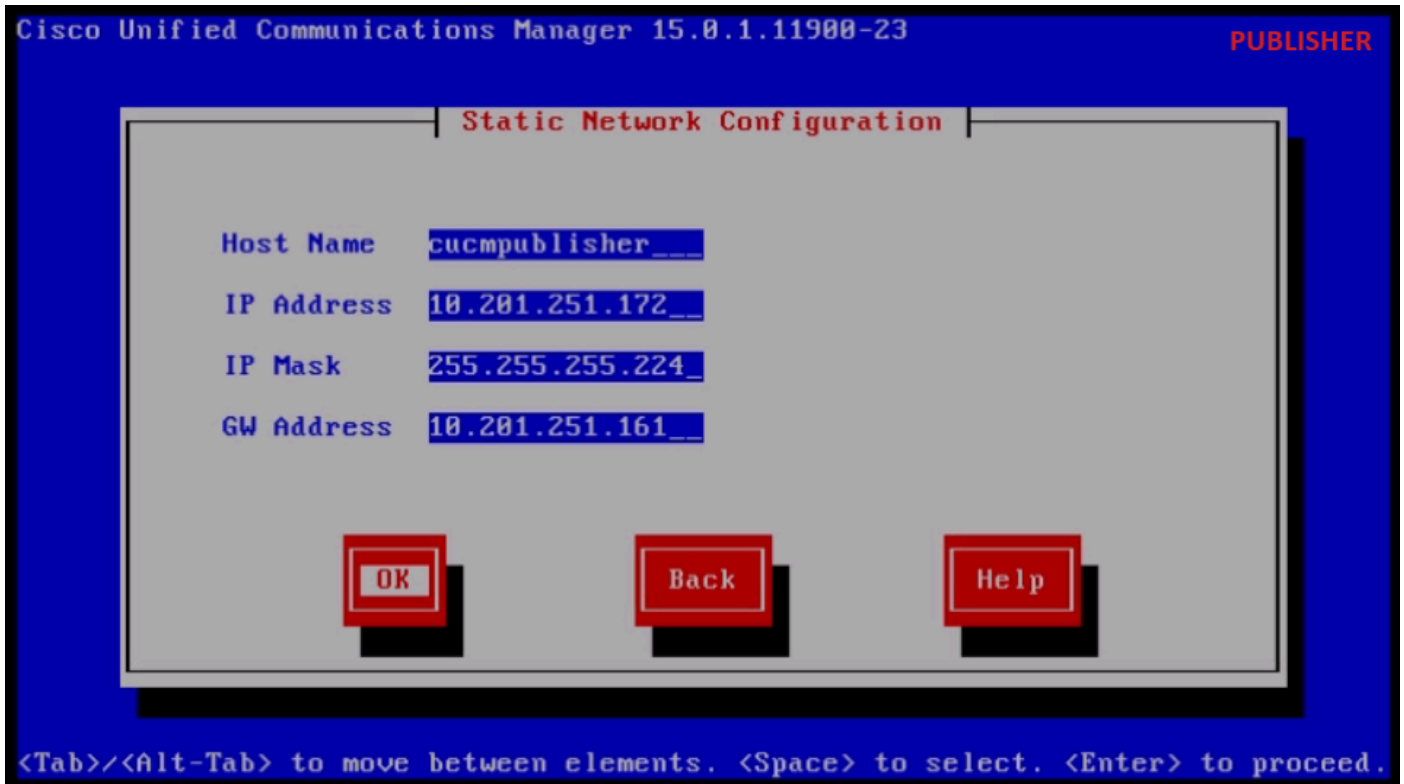
Choose appropriate timezone and then click the **OK** button.

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.

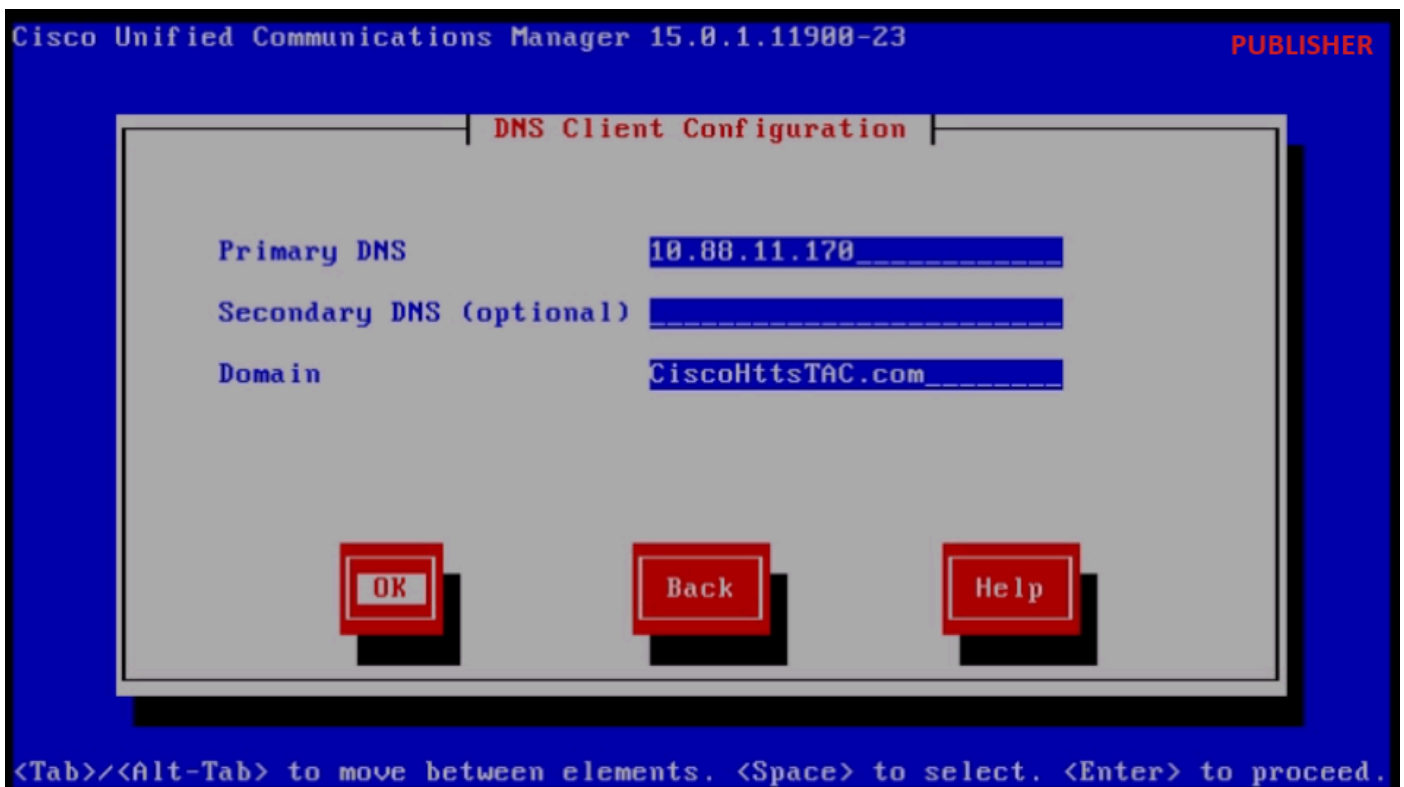
Provide the Host Name, IP Address, IP Mask and Gateway (GW) Address and then press the **OK** button.



Static Network Configuration

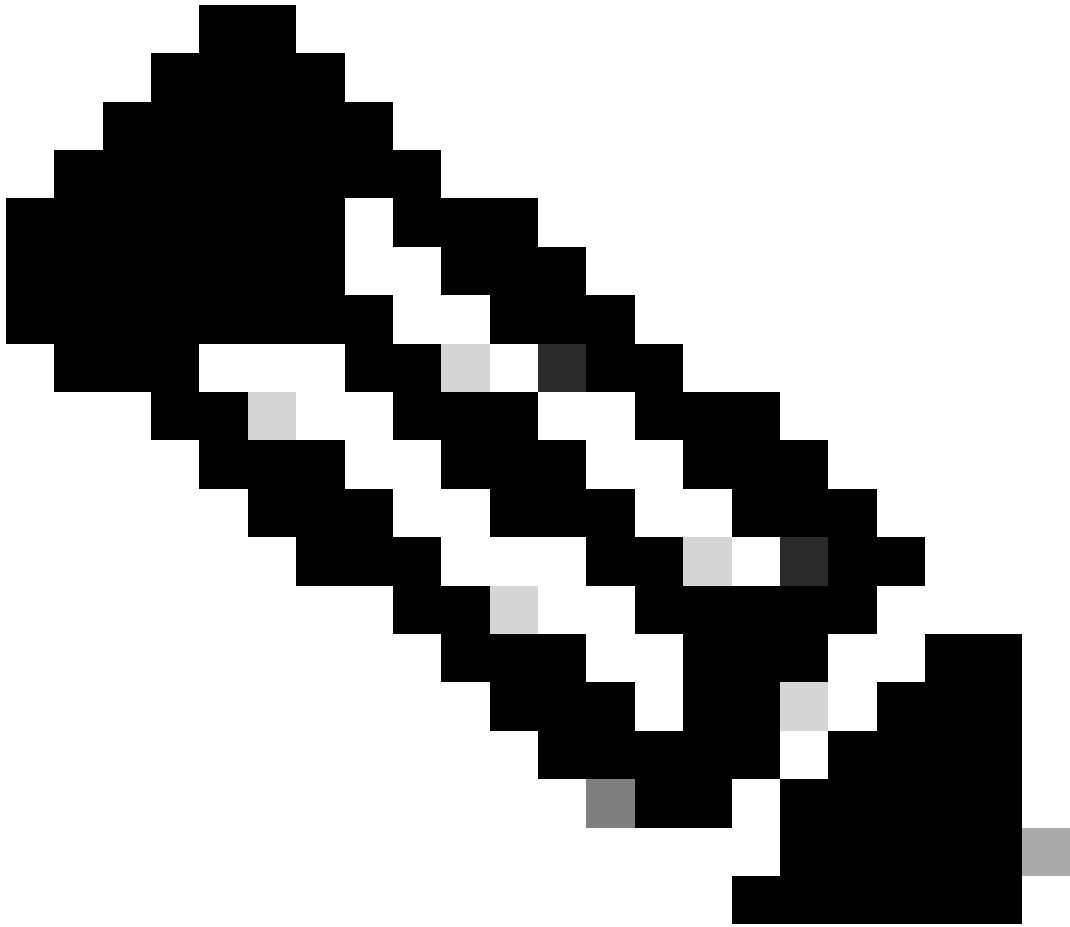
Click the **Yes** button under the DNS Client Configuration.

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.

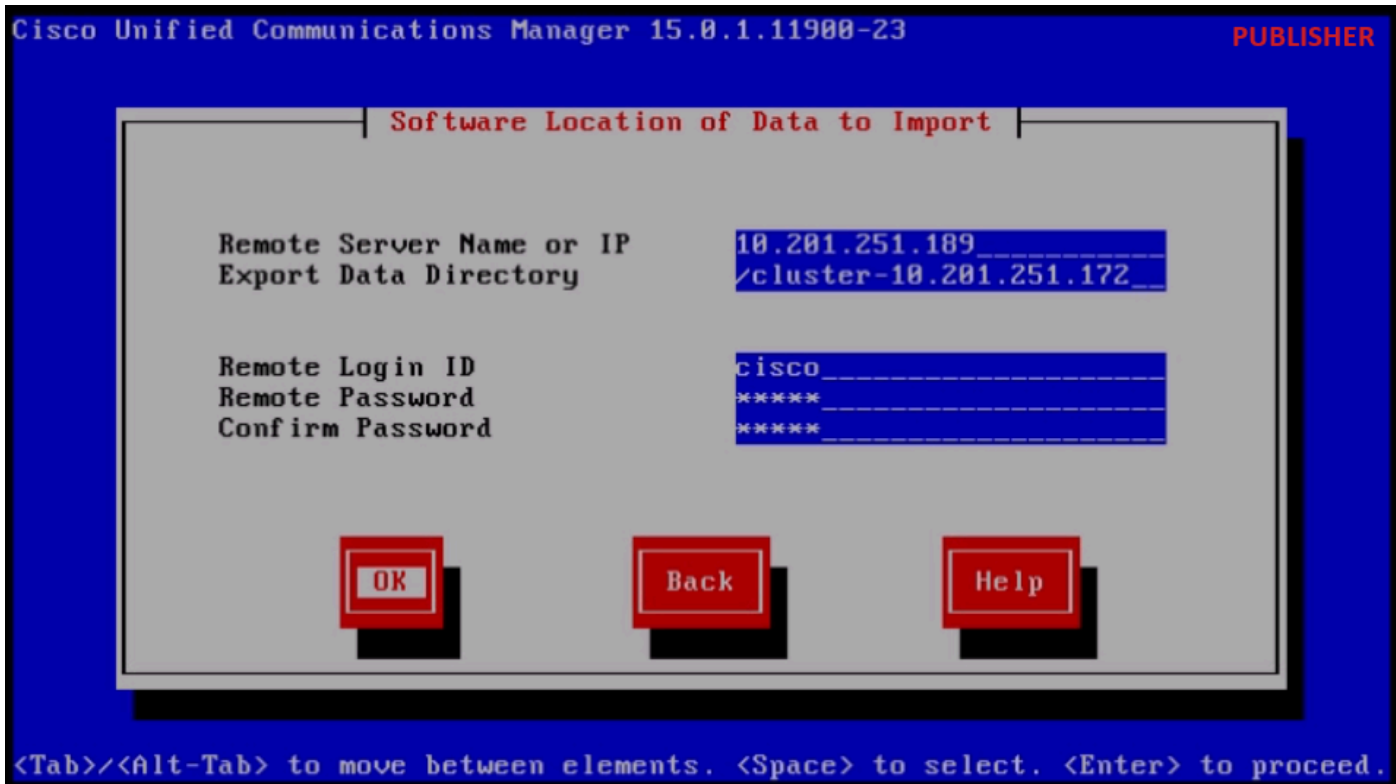


Note: Location of the Publisher exported data is present in the folder **cluster-Publisher_IP_Address** as shown in the screenshot.

The screenshot shows a Windows File Explorer window with the address bar displaying 'C:\Users\agent1\Desktop\FTPfolder\Data_Export_Import\cluster-10.201.251.172'. The window title is 'SFTP Server'. The main area shows a list of files with columns for Name, Date modified, Type, and Size.

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

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.

Network Time Protocol Client Configuration

NTP Server 1	<input type="text" value="10.88.7.37"/>
NTP Server 2	<input type="text"/>
NTP Server 3	<input type="text"/>
NTP Server 4	<input type="text"/>
NTP Server 5	<input type="text"/>

Test **Proceed** **Back** **Help**

<Tab>/<Alt-Tab> to move between elements. <Space> to select. <Enter> to proceed.

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.

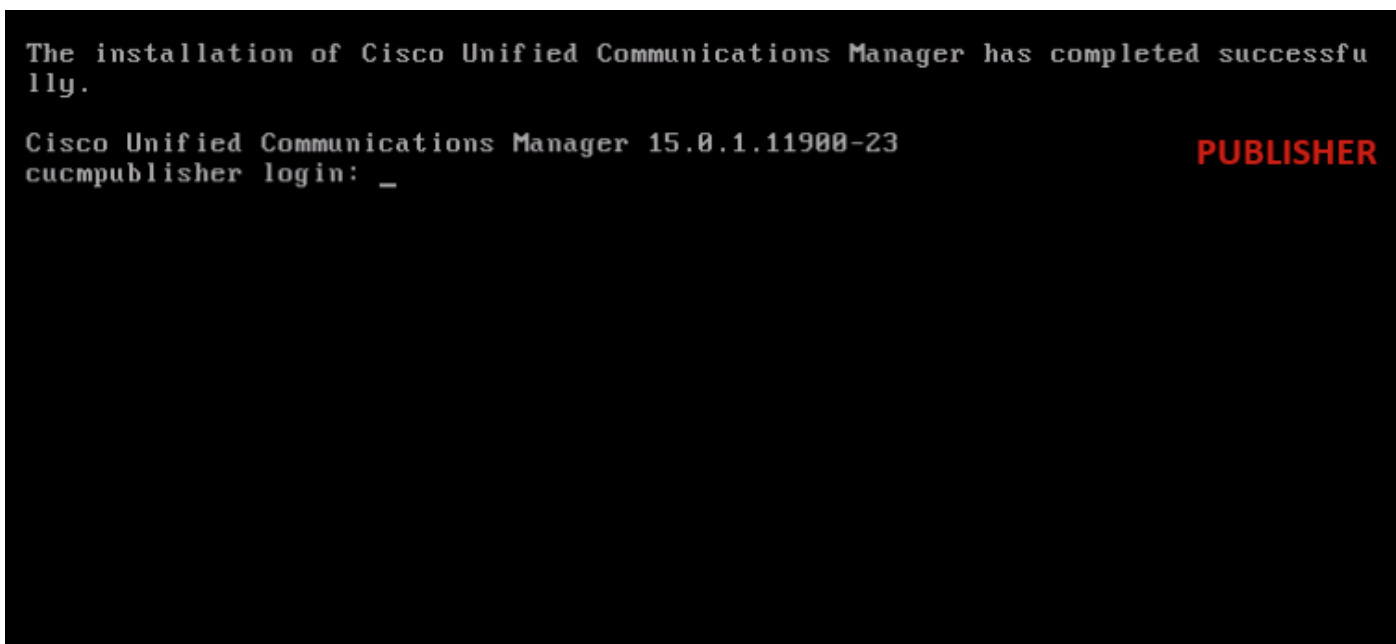
Choose appropriate option under Smart Call Home Enable Page and click the **OK** button.

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



Platform Configuration Confirmation

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



Publisher Installation is Completed Successfully

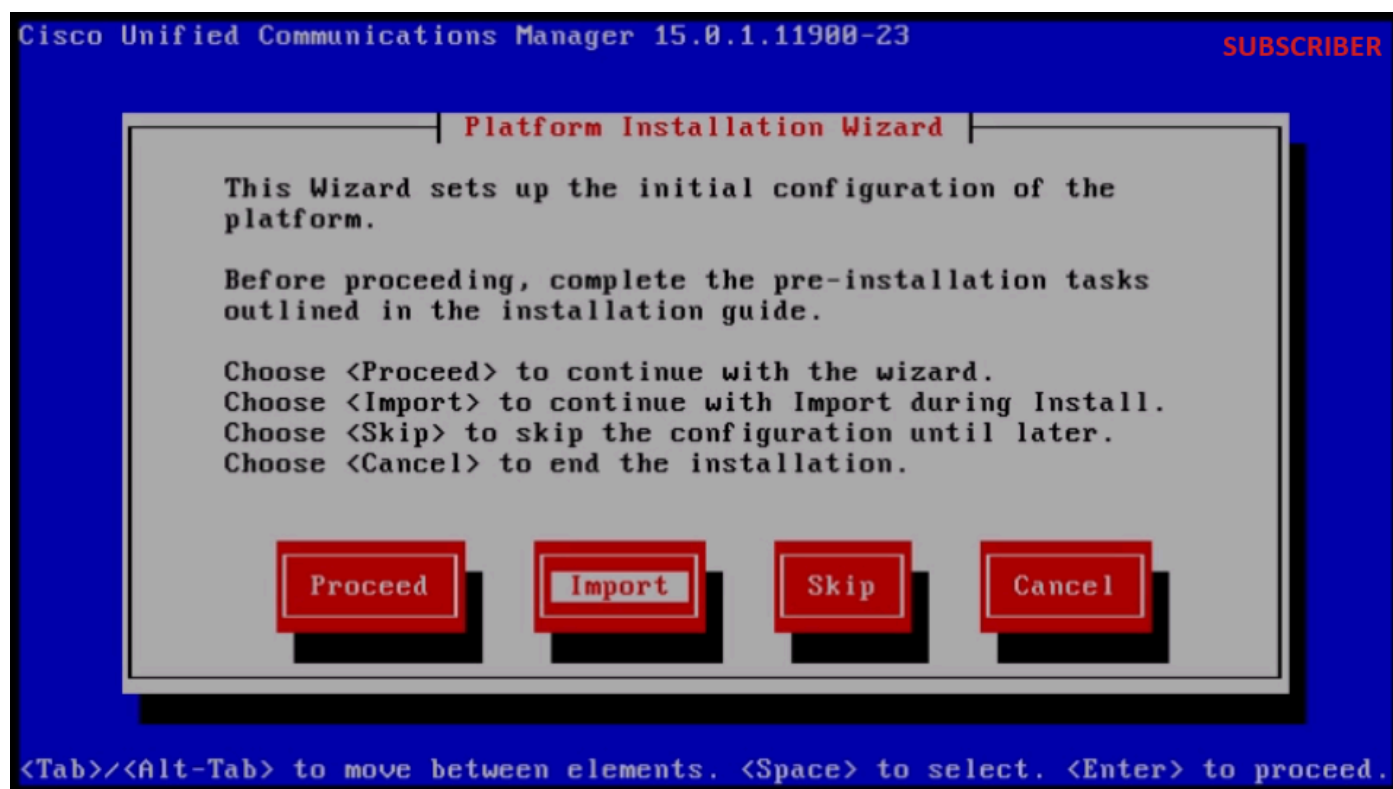
Install New Subscriber Using Exported Data

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.

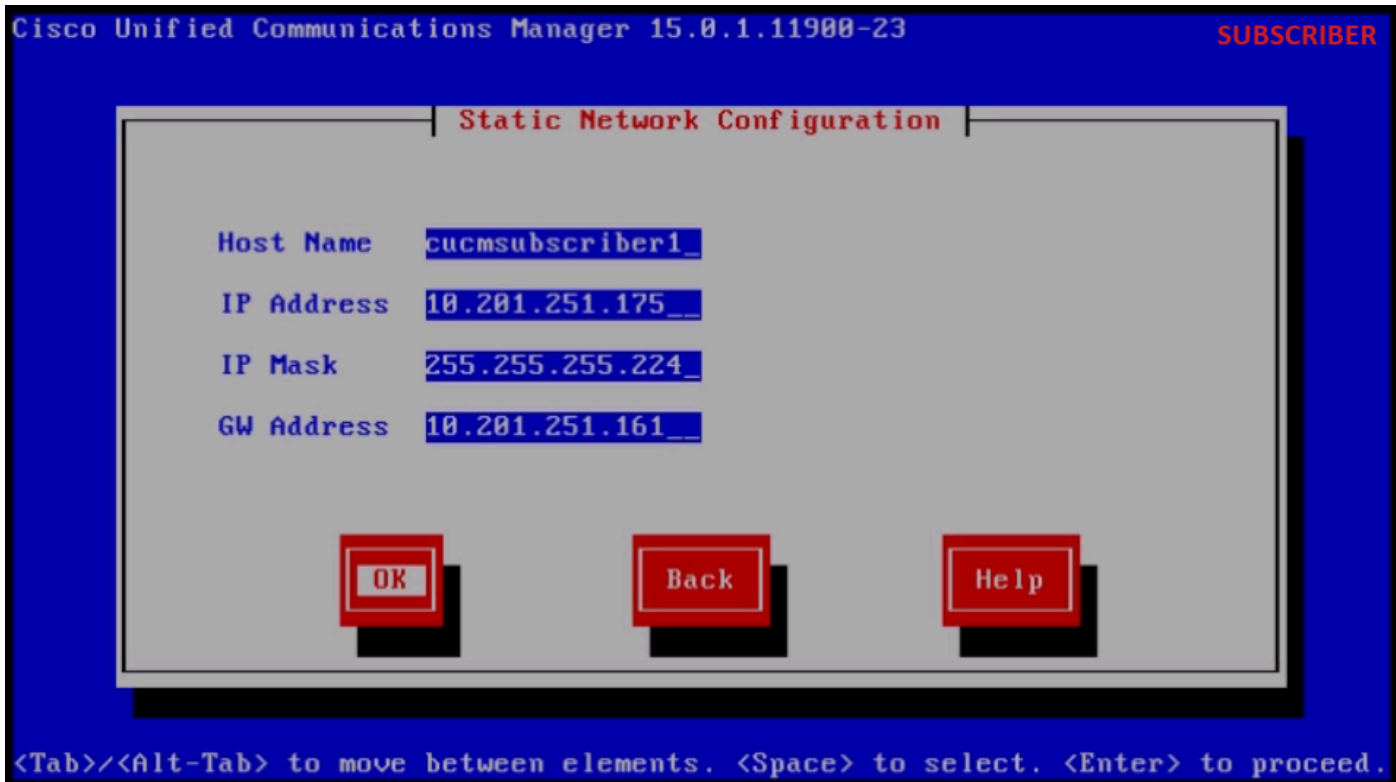
Choose appropriate timezone and then click the **OK** button.

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.

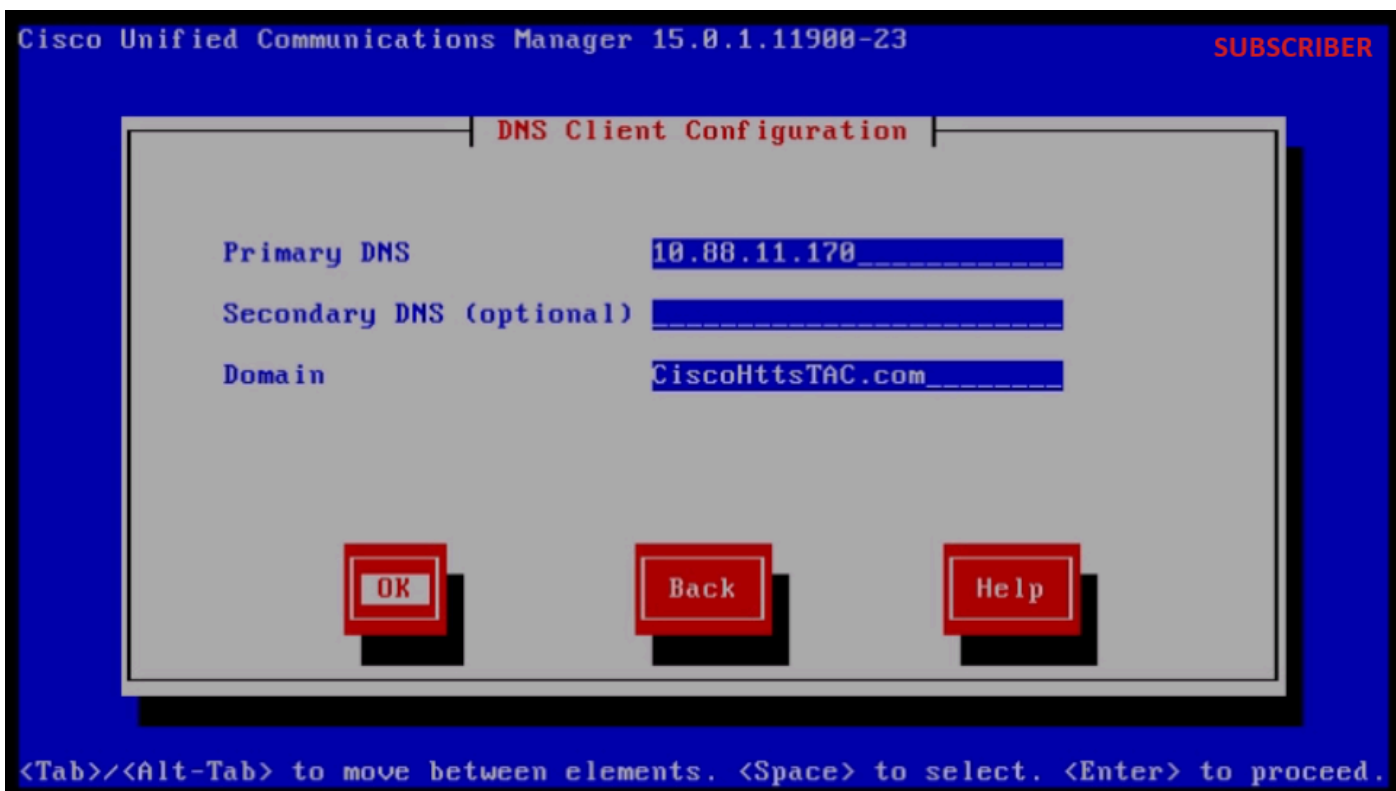
Provide the Host Name, IP Address, IP Mask and Gateway(GW) Address for the Subscriber server and then press the **OK** button.



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.

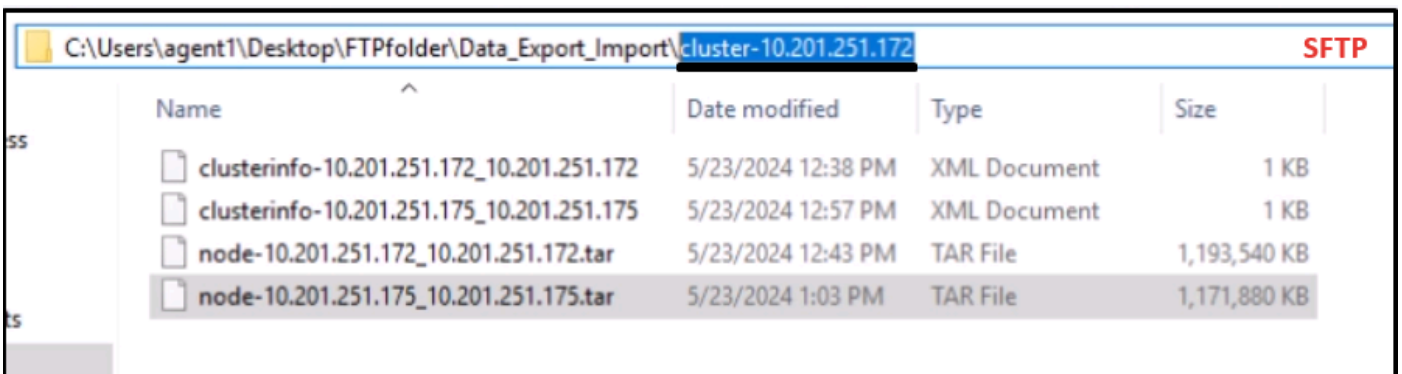
Software Location of Data to Import

Remote Server Name or IP	10.201.251.189
Export Data Directory	/cluster-10.201.251.172__
Remote Login ID	cisco_____
Remote Password	*****
Confirm Password	*****

<Tab>/<Alt-Tab> to move between elements. <Space> to select. <Enter> to proceed.

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.



The screenshot shows a Windows File Explorer window with the address bar displaying the path: C:\Users\agent1\Desktop\FTPfolder\Data_Export_Import\cluster-10.201.251.172. The folder name is highlighted in blue. The window title bar includes the text 'SFTP'. The main area displays a list of files with the following columns: Name, Date modified, Type, and Size.

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 the **OK** button.

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

First Node Configuration

Is this server the First Node in the cluster?

Yes

No

Back

Help

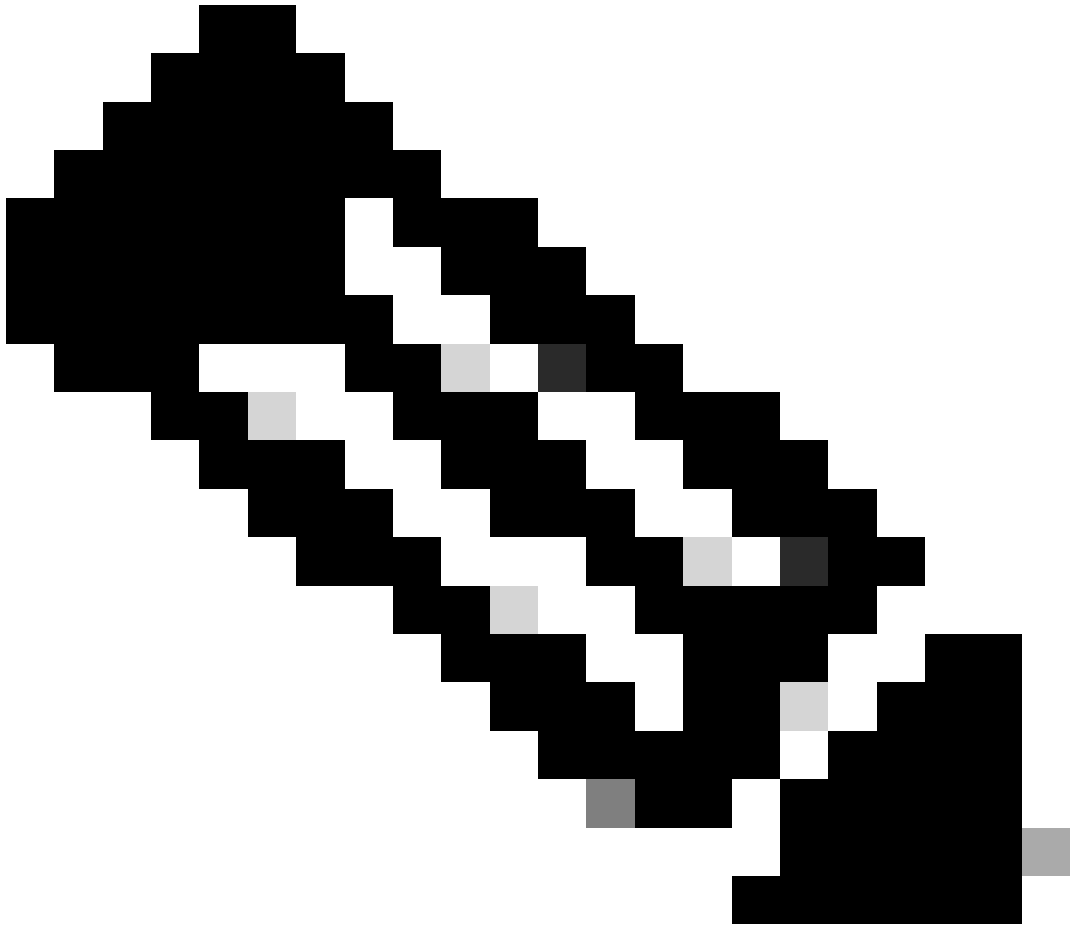
<Tab>/<Alt-Tab> to move between elements. <Space> to select. <Enter> to proceed.

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

Connectivity to First Node:

Host Name

IP Address

Security Password

Confirm Password

OK

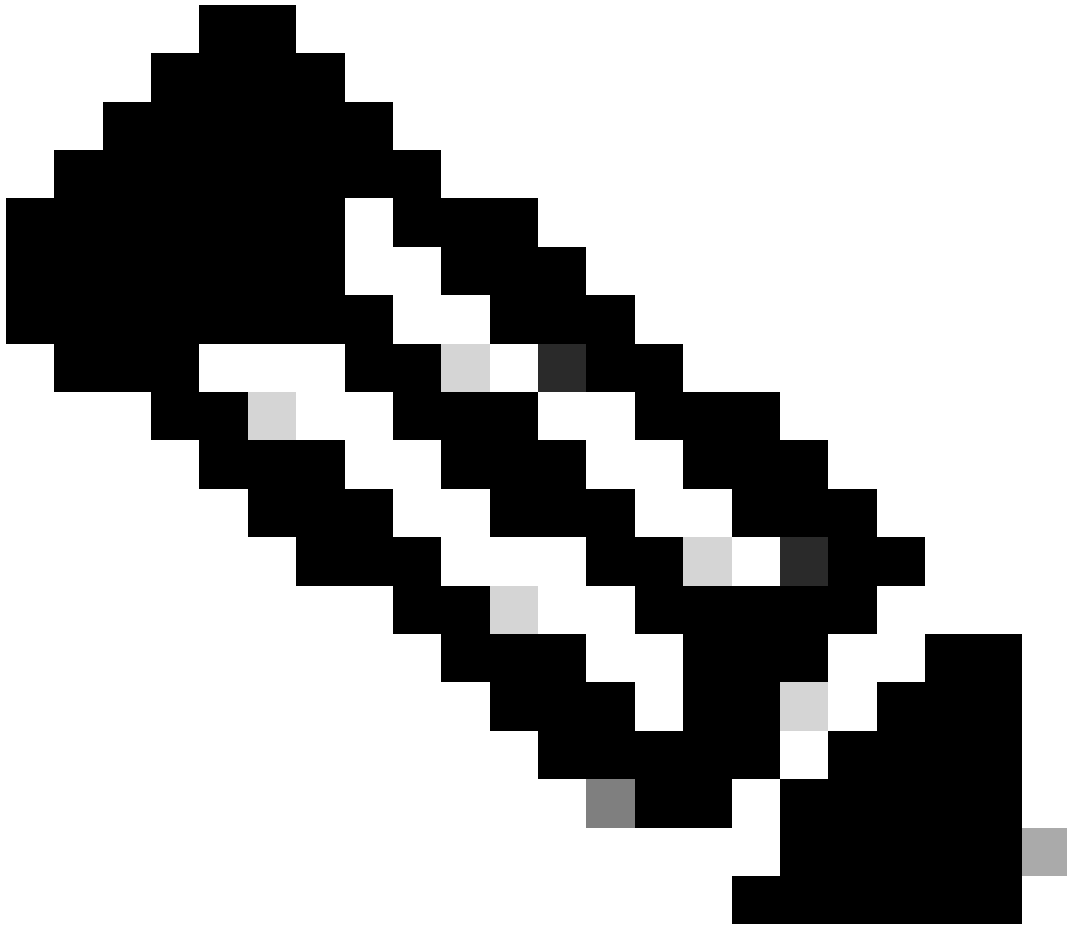
Back

Help

<Tab>/<Alt-Tab> to move between elements. <Space> to select. <Enter> to proceed.

First Node Access Configuration

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



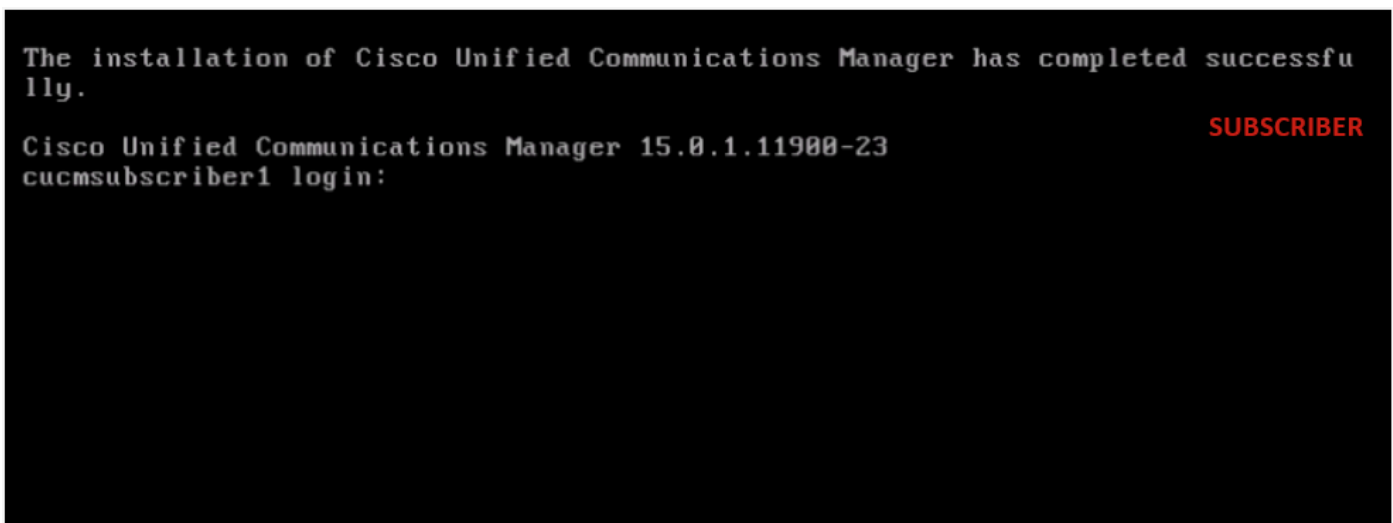
Note: If want to configure SMTP then press Yes button and configure the SMTP host.

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

```

admin:show myself
Machine Name      : cucmpublisher
account name     : admin
privilege level  : 4
command count    : disabled
logging setting  : disabled
admin:
admin:
admin:show version active
Active Master Version: 15.0.1.11900-23
Active Version Installed Software Options:
No Installed Software Options Found.
admin:

```

Publisher Verification

```

10.201.251.172 - PuTTY
admin:utils dbreplication runtimestate
PUBLISHER

Server Time: Sat Jun  1 08:05:05 PDT 2024

Cluster Replication State: BROADCAST SYNC ended at: 2024-05-26-11-13
  Sync Result: SYNC COMPLETED on 753 tables out of 753
  Sync Status: All Tables are in sync
  Use CLI to see detail: 'file view activelog cm/trace/dbl/20240526_111231_dbl_repl_output_Broadcast.log'

DB Version: ccm15_0_1_11900_23

Repltimeout set to: 300s
PROCESS option set to: 40

Cluster Detailed View from cucmpublisher (2 Servers):

SERVER-NAME      IP ADDRESS      PING      DB/RPC/      REPL.      Replication      REPLICATION SETUP
-----          -
cucmpublisher    10.201.251.172  0.019     Y/Y/Y        0          (g_2)           (2) Setup Completed
cucmsubscriber1  10.201.251.175  0.233     Y/Y/Y        0          (g_3)           (2) Setup Completed

admin:

```

Publisher Verification

```
10.201.251.172 - PuTTY PUBLISHER
admin:
admin:
admin:file view install system-history.log

=====
Product Name - Cisco Unified Communications Manager
Product Version - 15.0.1.11900-23
Kernel Image - 4.18.0-372.16.1.el8_6.x86_64
=====
05/26/2024 06:40:55 | root: Install 15.0.1.11900-23 Start
05/26/2024 06:53:00 | root: Boot 15.0.1.11900-23 Start
05/26/2024 09:18:27 | root: Import during Install 12.5.1.15900-66-to-15.0.1.11900-23 Success
05/26/2024 09:18:27 | root: Product Version 15.0.1.11900-23
05/26/2024 09:18:27 | root: Kernel Image 4.18.0-372.16.1.el8_6.x86_64
05/27/2024 00:00:08 | root: DRS Backup UCMVersion:15.0.1.11900-23 Start
05/27/2024 00:22:01 | root: DRS Backup UCMVersion:15.0.1.11900-23 Success
05/28/2024 00:00:04 | root: DRS Backup UCMVersion:15.0.1.11900-23 Start
05/28/2024 00:22:07 | root: DRS Backup UCMVersion:15.0.1.11900-23 Success
05/29/2024 00:00:02 | root: DRS Backup UCMVersion:15.0.1.11900-23 Start
05/29/2024 00:22:15 | root: DRS Backup UCMVersion:15.0.1.11900-23 Success
05/30/2024 00:00:02 | root: DRS Backup UCMVersion:15.0.1.11900-23 Start
05/30/2024 00:22:06 | root: DRS Backup UCMVersion:15.0.1.11900-23 Success
05/31/2024 00:00:03 | root: DRS Backup UCMVersion:15.0.1.11900-23 Start
05/31/2024 00:22:01 | root: DRS Backup UCMVersion:15.0.1.11900-23 Success

options: q=quit, n=next, p=prev, b=begin, e=end (lines 1 - 20 of 22) :
admin:
admin:█
```

Publisher Verification

SUBSCRIBER

```
10.201.251.175 - PuTTY SUBSCRIBER
admin:show myself
Machine Name      : cucmssubscriber1
account name     : admin
privilege level  : 4
command count    : disabled
logging setting  : disabled
admin:
admin:show version active
Active Master Version: 15.0.1.11900-23
Active Version Installed Software Options:
No Installed Software Options Found.
admin:
admin:█
```

Subscriber Verification

```

10.201.251.175 - PuTTY
No Installed Software Options Found.
admin:
admin:utils dbreplication runtimestate

Server Time: Sat Jun 1 08:07:21 PDT 2024

Cluster Replication State: Only available on the PUB

DB Version: ccm15_0_1_11900_23

Repltimeout: Only available on the PUB
PROCESS option: Only available on the PUB

Cluster Detailed View from cucmssubscriber1 (2 Servers):

SERVER-NAME          IP ADDRESS          PING          DB/RPC/          REPL.          Replication          REPLICATION SETUP
-----          -----          (msec)          DbMon?          QUEUE          Group ID          (RTMT) & DB Status
-----          -----          -----          -----          -----          -----          -----
cucmpublisher          10.201.251.172          0.202          Y/Y/Y          0          (g_2)          (2) Setup Completed
cucmssubscriber1          10.201.251.175          0.018          Y/Y/Y          0          (g_3)          (2) Setup Completed

```

Subscriber Verification

```

10.201.251.175 - PuTTY
PROCESS option: Only available on the PUB
SUBSCRIBER

Cluster Detailed View from cucmssubscriber1 (2 Servers):

SERVER-NAME          IP ADDRESS          PING          DB/RPC/          REPL.          Replication          REPLICATI
-----          -----          (msec)          DbMon?          QUEUE          Group ID          (RTMT) &
-----          -----          -----          -----          -----          -----          -----
cucmpublisher          10.201.251.172          0.202          Y/Y/Y          0          (g_2)          (2) Setup
cucmssubscriber1          10.201.251.175          0.018          Y/Y/Y          0          (g_3)          (2) Setup

admin:
admin:
admin:file view install system-history.log

=====
Product Name -      Cisco Unified Communications Manager
Product Version - 15.0.1.11900-23
Kernel Image -      4.18.0-372.16.1.el8_6.x86_64
=====

05/26/2024 10:09:55 | root: Install 15.0.1.11900-23 Start
05/26/2024 10:21:39 | root: Boot 15.0.1.11900-23 Start
05/26/2024 11:03:57 | root: Import during Install 12.5.1.15900-66-to-15.0.1.11900-23 Success
05/26/2024 11:03:57 | root: Product Version 15.0.1.11900-23
05/26/2024 11:03:57 | root: Kernel Image 4.18.0-372.16.1.el8_6.x86_64

end of the file reached
options: q=quit, n=next, p=prev, b=begin, e=end (lines 1 - 10 of 10) : █

```

Subscriber Verification

Related Information

[Install with Data Import](#)