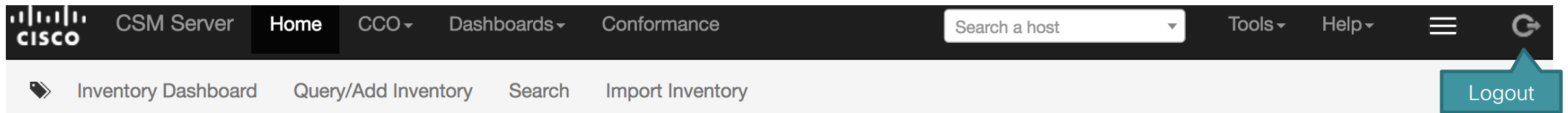


# Home

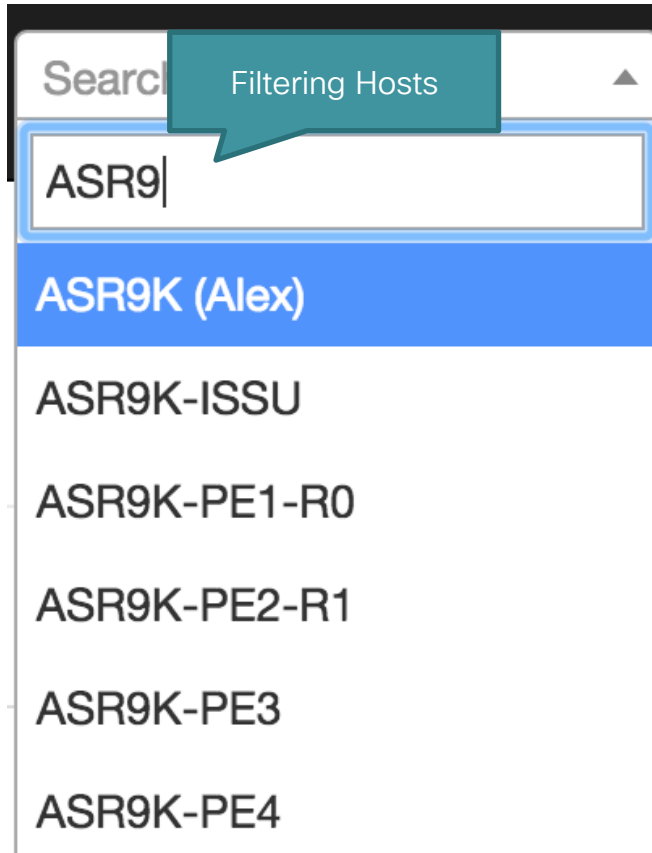
# Menu Bars

# Menu Bars

- Main Menu Bar
  - Allows access to all software management functions.
- Inventory Manager Menu Bar
  - Allows access to all inventory related functions.
  - Can be enabled or disabled via the three stripe icon on the far-right of the Main Menu Bar.



# Navigate Between Hosts



- **Search a host**
  - The Search a host bar provides a quick way to navigate between managed hosts. When a host is selected, its Host Dashboard will be displayed.
  - Further filtering can be done by typing the string matching part of the hostname. Non-matching hostnames will be filtered out real-time.

# Home

# Home

Display hosts based on the selected region

Schedule installation for multiple hosts

Selected Region: ALL

Filter Hosts by Region

 [Schedule Batch Installations](#)

CSM Server	
Server Time	2017-03-13 18:53:07
Server Uptime	20m 17s
Server Version	3.4 (03/06/2017)
Login User	root
Privilege	Admin

Summary	
Total Regions	3
Total Hosts	15

Region Hosts: 15		
Platform	Software	
ASR900	03.18.00.S	5
ASR900	15.5(3)S	1

Managed Hosts

[Jump Servers](#)

[Regions](#)

[Server Repositories](#)

[Create](#)

Filter table data

10 records per page

Search:

Hostname	Region	TS or IP	Chassis	Platform	Software	Last Successful Retrieval	Action
<a href="#">asr903-2</a>	TMELab	<a href="#">172.20.163.27</a>	ASR-903	ASR900	03.18.00.S	18h 51m 40s ago	<a href="#">Install</a>
<a href="#">asr903-3</a>	TMELab	<a href="#">172.20.163.27</a>	ASR-903	ASR900	03.18.00.S	18h 51m 25s ago	<a href="#">Install</a>
<a href="#">ASR907-1</a>	TMELab	<a href="#">1.53.39.101</a>	ASR-907	ASR900	03.18.00.S	18h 52m 39s ago	<a href="#">Install</a>
<a href="#">CSG-1202-ASR901</a>	TMELab	<a href="#">1.57.39.100</a>	A901	ASR900	15.5(3)S	18h 52m 12s ago	<a href="#">Install</a>
<a href="#">CSG-5502-ASR920</a>	TMELab	<a href="#">172.20.163.39</a>	ASR-920	ASR900	03.18.00.S	18h 52m 38s ago	<a href="#">Install</a>
<a href="#">ncs4k</a>	DCLab	<a href="#">10.88.130.134</a>	NCS4016	NCS4K	6.1.12	1h 16m 32s ago	<a href="#">Install</a>
<a href="#">PAN-5201-ASR903</a>	TMELab	<a href="#">172.20.163.27</a>	ASR-903	ASR900	03.18.00.S	18h 51m 46s ago	<a href="#">Install</a>
<a href="#">BO</a>	DCLab	<a href="#">172.27.148.28</a>	ASR-9010	ASR9K	5.3.4	18h 52m 35s ago	<a href="#">Install</a>
<a href="#">vkg2</a>	DCLab	<a href="#">1.20.30.40</a>	ASR-9006	ASR9K	6.1.2	55d 17h 52m ago	<a href="#">Install</a>
<a href="#">vkg2</a>	DCLab	<a href="#">1.20.30.50</a>	ASR-9010	ASR9K	5.3.4	55d 2h 57m ago	<a href="#">Install</a>

Launch Host Dashboard

Edit Host

Red highlight indicates last software retrieval failed

Showing 1 to 10 of 15 entries

[Next](#)

# Home Tab Options



Managed Hosts

Jump Servers

Regions

Server Repositories

Create ▾

## ▪ Managed Hosts

- Managed hosts are Cisco IOS XR/IOS XE devices on which install tasks can be performed.
- Each row represents one Cisco device.

## ▪ Jump Servers (Optional)

- A jump server is the server that CSM logs into in order to connect to the managed hosts.
- Many service provider environments place their devices behind a jump server. CSM first logs into the jump server, then to the router.

## ▪ Regions

- A region is mapped to multiple server repositories.
- All devices from the same region share the same set of server repositories.
- If no server repository is assigned to a region. The region will have access to all server repositories.

## ▪ Server Repositories

- Supported server repository types are TFTP, FTP, SFTP, SCP, and LOCAL server repositories.

## ▪ Create

- Click here to create managed hosts, jump servers, regions, and server repositories.

# Create a Server Repository - TFTP

## Create Server Repository



Server Repository Name	<input type="text" value="TFTP Server"/>
Server Type	<input type="text" value="TFTP"/>
TFTP Server Path	<input type="text" value="tftp://223.255.254.254/auto/tftp-platform-reg/jawei/ios-xe"/>
VRF	<input type="text" value="Optional"/>
File Directory (Used by CSM Server)	<input type="text" value="/auto/tftp-platform-reg/jawei/ios-xe"/>

- The TFTP Server Path is a complete TFTP URL (same as the URL used in the install CLI command) that is used by the device to load the software package. It must be reachable by the device.
- The File Directory is a Linux file system path which is used by CSM Server to browse software packages since TFTP protocol does not provide file browsing capability. The File Directory should reference the same location as the TFTP Server.



# Create a Server Repository – FTP/SFTP

Create Server Repository

Server Repository Name	<input type="text" value="FTP Server"/>
Server Type	<input type="text" value="FTP"/>
FTP Server Address	<input type="text" value="172.27.153.150"/>
VRF	<input type="text" value="Optional"/>
Home Directory	<input type="text" value="/home/terastream"/> 
Username	<input type="text" value="root"/>
Password	<input type="password" value="....."/> 
<div><input type="button" value="Check Reachability"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/></div>	

- Specify the FTP/SFTP server address (e.g. <ftp.cisco.com> or an IP address).
- Specify the Home Directory where FTP/SFTP client first connects. To identify the Home Directory, log into the server and type 'pwd'.

# Create a Server Repository – SCP

**Edit Server Repository**

<b>Server Repository Name</b>	<input type="text" value="My SCP Server"/>
<b>Server Type</b>	<div>SCP ▾</div>
<b>SCP Server Address</b>	<input type="text" value="10.77.132.122"/>
<b>Home Directory</b>	<input type="text" value="/rosco"/> ⓘ
<b>Username</b>	<input type="text" value="root"/> 🔒
<b>Destination on Host (e.g. disk0:)</b>	<input type="text" value="disk0:"/>
<div><div>Check Reachability</div><div>Save</div><div>Cancel</div></div>	

- Specify the SCP server IP address.
- Specify the Home Directory where the software packages can be found.
- Specify the username and password to connect to the SCP server.
- The Destination on Host identifies the destination on the device where the software packages will be copied to.
- CSM Server has no visibility on SCP servers. When scheduling an installation, the software packages will need to be manually entered as file browsing is not supported.

# Create a Server Repository – LOCAL

Edit Server Repository

Server Repository Name	<input type="text" value="Local Device Storage (Disk 0)"/>
Server Type	<input type="text" value="LOCAL"/>
Device Path (e.g. disk0:)	<input type="text" value="disk0:"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

- A LOCAL server type indicates that the software packages have already been copied onto a device. The device will use the device path information to install/activate the software packages.
- CSM Server has no visibility on LOCAL servers. When scheduling an installation, the software packages will need to be manually entered as file browsing is not supported.

# Create a Region

### Edit Region

**Region Name**

### Server Repositories

**Available Servers** - showing 43

ACE server  
Alberto ftp  
Alex TFTP Server  
alextang-lnx-v1  
alok\_tftp  
BJ-RP-FTP  
Dennis TFTP  
Dsegovia Bldg 18  
Dsegovia Bldg 20  
Eddie SFTP

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➤

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**Selected Servers** - showing 2

Cisco Telecom East Coast TFTP zeppelin-3  
Cisco Telecom East Coast TFTP zeppelin-5

Save

Cancel

- Specify a unique region name.
- Use the dual-list UI to assign server repositories to a region.
- When creating a new host, a region will be attached to the host.
- When scheduling an installation, CSM Server uses the host's region to display available server repositories. Once a server repository is selected, the software packages that reside there may be selected. If no server repository is assigned to a region, all server repositories defined in the system will be available for selection.
- Assigning server repositories to a region limit how many can be seen and selected.

# Create a Jump Server

Create Jump Server

Jump Server

zeppelin-3

Connection Parameters

Connection Type

telnet

Name or IP

zeppelin-3.cisco.com

Port Number


Leave Blank for Default

Username

johnsmith

Password

.....



Check Reachability

Save

Cancel

- Specify a unique jump server name.
- Specify a connection type.
- Specify the sever name or IP address of the server.
- Specify a telnet or ssh port number.
- Specify a username and password.
- A jump server may be assigned to a managed host if the managed host is behind the jump server.

# Create a Host

## Create Host

Hostname	ASR9K-PE1-R0
Region	California USA
Location	
Roles	Use Comma to Separate Roles
Software Profile	5.3.0 PE Devices

## Connection Parameters

Connection Type	telnet
Terminal Server or Mgmt. IP	127.2.111.2
Port Number	Leave Blank for Default
Username	john
Password	.....
Enable Password (IOS-XE only)	
Jump Server	

- Specify a unique host name.
- Select a region for the host.
- Specify a location.
- Specify a role. Multiple roles can be entered by using a coma delimiter. The roles can be used to enable further filtering when creating batch schedule installations.
- Select a software profile. Software profiles are defined under the Conformance menu and used for conformance reporting. They can also be used to control whether a software package can be added to the host (see Admin Console – General – Software Installation Settings). The software profile can be assigned at a later time via the Conformance menu.
- Select a connection type to the host.

# Create a Host – Continue

Create Host

Hostname

ASR9K-PE1-R0

Region

California USA

Location

Roles

Use Comma to Separate Roles

Software Profile

5.3.0 PE Devices

Connection Parameters

Connection Type

telnet

Terminal Server or Mgmt. IP

127.2.111.2

Port Number

Leave Blank for Default

Username

john

Password

.....

Enable Password (IOS-XE only)

Jump Server

- In the Terminal Server or Mgmt. IP field, you may specify either a terminal server IP or a management IP address. If you specify a terminal server IP, it is likely that you may also need to specify a port in the Port Number field.
- Multiple terminal server or management IPs (i.e. RSP0 and RSP1) can be entered in the Terminal Server or Mgmt. IP field. Use a comma as the delimiter.
- Multiple terminal server ports can be entered in the Port Number field. Use a comma as the delimiter.
- Specify the host username and password.
- Specify the Enable Password for a IOS or IOS-XE host.
- Select a jump server if the connection requires a jump server.


# Password Encryption

- **User Password**

- All user passwords are encrypted with a one-way hash algorithm. It is impossible to decrypt the password. If a user forgets the password, the administrator will have to reset it.

- **Other Passwords**

- Passwords for hosts, jump servers, server repositories, and SMTP mail servers are encrypted as well.
- When a password is first defined, it will be masked by dots. To view the actual password characters, click the eye icon.

**Password**  

Click to view password



- **Saved Passwords**

- Once the password is saved, it will no longer be viewable. Instead, the password field shows 'Use Password on File'. To modify the password, click the lock icon next to the Username field. Then, enter the new password.

**Username**  

Click the Lock icon to display the password for editing

- To remove the password (i.e. no password), click the red cross icon.

**Password**   



# Connect via Host Console Port

When a host console port is used for the connection, the syslog logging on the console should be disabled. Otherwise, it will interfere with the CSM Server operations when it connects to the device.

- To disable logging
  - RP/0/RSP0/CPU0:GW# config
  - RP/0/RSP0/CPU0:GW(config)# logging console disable
  - RP/0/RSP0/CPU0:GW(config)# commit