

Overview

What is CSM Server?

CSM Server is a web-based, server-side automation and orchestration framework. It gives service providers the ability to simultaneously schedule and deploy IOS XR (ASR9K, CRS) and IOS XR 64 bit (ASR9K-64, NCS5K, NCS5500, NCS6K) SMUs & software upgrades across hundreds of routers in a scheduled manner through a simple point and click Web interface.

CSM Server automates and relieves our customers of having to perform tedious and manual install steps themselves.

CSM Server



▪ Requirements

- Runs on Linux machine
- Python interpreter 2.7.6 & supported libraries
- MySQL 5.6 or above
- Gunicorn web server
- Safari/Google Chrome/Firefox Browser

▪ Installation

- Refer to the Installation Guide.
- The Installation Guide will provide instructions on installing CSM Server and various components on different Linux distributions, as well as how to launch it.

▪ CSM Server Modules

▪ CSM Server

- Provides a Web GUI to provision hosts, jump servers, regions, and servers.
- Schedules different types of installation jobs.
- Browses database information and views system and session logs.
- Performs administrative tasks.

▪ CSM Dispatcher

- Runs scheduled download and install jobs.
- Collects software inventory information from hosts.
- Performs housekeeping tasks.

High Level Overview

- **Login**
 - Use default Admin user authentication to login.
- **Modify User Password**
 - Click Tools – Edit My Profile.
- **Create CSM Server Users**
 - Click Admin – Create User.
- **Create Server Repositories**
 - Define TFTP/FTP/SFTP server information.
- **Create Regions**
 - Create regions and link them with server repositories.
- **Create Jump Servers**
 - Define jump servers if managed hosts are behind them.
- **Create Managed Hosts**
 - Define connection information and assign a region to a managed host.
 - Once a host is defined, CSM Server will connect to the host to retrieve software inventory information.
- **Host Dashboard**
 - Click the hostname under the Managed Hosts tab.
 - Display the host connection information, software packages, scheduled installations, and the install and software inventory history.
 - Allows installation to be scheduled.
- **Schedule Install**
 - From Host Dashboard, click Action - Schedule an Install.
- **Install Dashboard**
 - View scheduled/in-progress/failed/completed installations.

Start & Stop CSM Server

Start CSM Server

- For detailed information, refer to the installation guide.
- **Follow only if CSM Server is running inside virtualenv:**
 - To enter the virtual environment, from csmserver directory, type “source env/bin/activate”.
 - The shell prompt will display “(env)” which indicates you are inside the virtual environment.
 - Follow the instructions below to start CSM Server.
 - To leave the virtual environment, type “deactivate”. This will return you to the regular shell prompt.
- **To Start CSM Server**
 - From csmserver directory, type “./csmserver start”.
- **To Start CSM Server Securely**
 - Must have ssl.key and ssl.cert files.
 - From csmserver directory, type “./csmserver start secure”.

Stop CSM Server

- For detailed information, refer to the installation guide.
- **Before stopping CSM Server, the following precautions will help eliminate unexpected results:**
 - On the Admin Dashboard, disable 'Allow Scheduled Installs to Run'.
 - Go to the Install Dashboard to see if there is any in-progress installation.
 - If there is no in-progress installation, follow the instructions below to stop CSM Server.
 - 'Allow Scheduled Installs to Run' will need to be re-enabled when CSM Server starts again.
- **If CSM Server is running inside virtualenv**
 - Follow the instructions on the previous slide to enter the virtual environment.
- **To Stop CSM Server**
 - From csmserver directory, type `./csmserver stop`.