Adding Non-Windows OS Images

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Adding a Non-Windows OS Image in Bare Metal Agent

This procedure creates a Non-Windows OS image template in Bare Metal Agent. You must add the OS image template before you can request a PXE boot for the OS image.

Note You cannot use this procedure to create supported Windows operating systems images. For more information about how to set up Windows OS images, see Adding Windows OS Images.

Before you begin

You must have all resources and requirements in place for each operating system image that you want to install through a Bare Metal Agent PXE boot request.

Step 1 Upload the Non-Windows OS image file. For more information, see Uploading an OS Image File.

Step 2 Provision the Non-Windows OS image. For more information, see Provisioning an OS Image.

Step 3 Navigate to `/opt/cnsaroot/templates/catalogname` and confirm that the PXE configuration templates are available in that location.

Step 4 To verify that the OS image is created, do the following:

a) In Cisco UCS Director, choose **Physical** > **Compute**.

b) In the left pane, navigate to the pod that contains the Bare Metal Agent.

c) In the right pane, click **PXE Boot Requests**.

d) Click **Add PXE Boot Request** and verify that the OS image is included in the **OS Type** drop-down list.

Downloading Cisco UCS Storage Drivers

We recommend you to download the relevant drivers using the UCS Hardware and Software Compatibility tool.

Step 1 Go to UCS Hardware and Software Compatibility tool.

`https://ucshcltool.cloudapps.cisco.com/public/`

Step 2 Click **Search**.

Step 3 Click the required radio button. For example, click the **Server** radio button to identify the compatible software for the Cisco UCS server.

Step 4 On the **Search Options** section, choose the required **Server Type**, **Server Model**, **Processor Version**, **Operating System**, and **Operating System Version** from the drop-down menus.

Step 5 On the **Search Results** section, refine the search results by checking or unchecking checkboxes next to **Product Category** (Adapters) and **UCS Server Firmware** version number

Step 6 Click **Driver ISO** under **Details** section.

Note By clicking the **View Notes** and **Install & Upgrade Guides** links under **Documents**, you can view the note details and install and upgrade details.

Step 7 Download a compatible Driver ISO file from the **Software Download** window.

Step 8 Extract the Storage ISO files.

Note To extract the ISO files, navigate to `Storage > Intel > C600 > RHEL` or `Storage > LSI > C600 > RHEL` and choose the required OS. For example, `Storage > Intel > C600 > RHEL > RHEL8.0 > megasr-18.0*.iso` for M.2 servers.

Step 9 Login to Bare Metal Agent through VM Console or SSH client to access the CLI.

Step 10 Create the `/opt/cnsaroot/bma-sw-rep` directory.

Step 11 Create directories for the operating system in the `/opt/cnsaroot/bma-sw-rep` directory of the Bare Metal Agent VM.

mkdir /opt/cnsaroot/bma-sw-rep/*RHEL8.0_MEGASR_DRIVERS*

Note We recommend that you make the directory name descriptive enough that you can identify the operating system of the images within it. For example, we recommend that you name the directory `RHEL8.0_MEGASR_DRIVERS`, where RHEL8.0 is the catalog name used during OS provisioning.

Step 12 Navigate to **cd /opt/cnsaroot/bma-sw-rep/***RHEL8.0_MEGASR_DRIVERS* and copy the *RHEL8.0_MEGASR_DRIVERS* file to this location.

Step 13 Execute ln -s <<path of the original iso file>> <<target link name>> to provide links to the ISO images.

For example, ln -s /opt/cnsaroot/bma-sw-rep/RHEL8.0_MEGASR_DRIVERS/megasr-18.01.2019.0524-1-rhel8-x86_64.iso megasr_drivers_softlink_to_original.iso.

Note The links to the RHEL8.0_MEGASR_DRIVERS should refer to the iso files.

Note We recommend that you make the directory name based on the operating system used for the OS deployment. For example, CentOS7.5_MEGASR_DRIVERS directory is used to store the operating system driver image file. You use the same set of RHEL drivers for CentOS as well.