



Installing Prime NAM Software

During software installations, you use the Bootloader, a small set of system software that runs when the system first powers up. The Bootloader loads and runs the Prime NAM application. The bootloader might optionally load and run the helper image on flash memory.

Reinstalling software involves installing, configuring, and starting a helper image. The helper, in turn, starts the Prime NAM installation wizard, which installs the software.



Note

Plan software upgrades or downgrades for times when you can take all applications that run on the host router out of service or offline.

This section has the following topics:

- [Prime NAM Software Images, page 1](#)
- [Installing Cisco SRE NAM Using IOS Commands, page 2](#)
- [Upgrading Cisco SRE NAM , page 4](#)

Prime NAM Software Images

The Cisco SRE NAM contains three Prime NAM software images:

- Bootloader image in flash memory—Use to specify whether to boot the Prime NAM application image or the helper image.
- Helper image in flash memory—Use to recover or upgrade Prime NAM software images.
- Prime NAM application image on the hard drive.

Types of Prime NAM Software Upgrades

Prime NAM software upgrades are available in two forms:

- Images—Full image releases that are installed from the helper image. Full image upgrades are typically used to update the Prime NAM application image, and if necessary and recommended by technical support, you can also use the helper image to upgrade the bootloader image or helper image.

- Patches—Incremental updates to software versions that are installed with the **patch** NAM CLI command. Patches are available only for the Prime NAM application image.

Perform one of the following procedures in this section, depending on your requirement:

- [Installing Cisco SRE NAM Using IOS Commands, on page 2](#)— Use this procedure if you are installing Cisco SRE NAM for the first time.
- [Upgrading Cisco SRE NAM, on page 4](#)—Use this procedure if you are upgrading an existing Prime NAM with Cisco SRE NAM.


Note

Using this method is discouraged. Installing using IOS commands or CLI commands is preferred.

Installing Cisco SRE NAM Using IOS Commands

If you are installing Cisco SRE NAM for the first time, you **must** perform the installation using the IOS command method described below.


Note

This installation method reformats the Cisco SM-SRE hard disk.

Before You Begin

Do the following before you begin installing Cisco SRE NAM:

- Download the NAM 6.1 software image from Cisco.com
- Copy the image to an FTP server.
- (Optional) Have available the IP address of your TFTP file server.
- To install Cisco NAM on a SM-SRE, the following set of files must be accessible in the same directory:
 - application(bin.gz)
 - helper
 - install.sre
 - install.sre.header
 - tcl signature
 - smbootloader
- The naming of these files is important. All these files with the correct naming will be made available as a zip file. The stem of the name is the application image name. Other files have additional extensions.
- The SRE install process first loads the tcl file and the helper from IOS. The tcl file is executed in IOS. Then the bootloader is instructed to load the helper image from the router. The install URL is passed to the helper image, which loads the bootloader and the application image and installs them.

**Note**

The helper does not perform name resolution, so URLs need to use numeric IP addresses. The URLs need their passwords embedded.

- See the [Cisco SRE Service Module Configuration and Installation Guide](#) for general instructions:

Procedure

The SRE installation is a common installation procedure for all SRE applications. It is controlled from the IOS prompt.

**Note**

It takes some time to initialize the hard drive and install the Cisco NAM software.

Perform the following:

SUMMARY STEPS

1. Navigate to the image directory and expand the ZIP file.
2. From the IOS CLI issue the command **service-module sm2/0 install url ftp://<file-location>**. In this example the SM-SRE is in slot 2.

DETAILED STEPS

	Command or Action	Purpose
Step 1	<p>Navigate to the image directory and expand the ZIP file.</p> <p>Example:</p> <pre>[nam@nam-ftp ~]\$ unzip nam-app-x86_64.6-1-1-5.bin.gz.zip Archive: nam-app-x86_64.6-1-1-5.bin.gz.zip inflating: nam-app-x86_64.6-1-1-5.bin.gz inflating: nam-app-x86_64.6-1-1-5.bin.gz.helper inflating: nam-app-x86_64.6-1-1-5.bin.gz.install.sre inflating: nam-app-x86_64.6-1-1-5.bin.gz.install.sre.header inflating: nam-app-x86_64.6-1-1-5.bin.gz.key inflating: nam-app-x86_64.6-1-1-5.bin.gz.smbootloader</pre>	For example:
Step 2	<p>From the IOS CLI issue the command service-module sm2/0 install url ftp://<file-location>. In this example the SM-SRE is in slot 2.</p> <p>Example:</p> <pre>namlab-mc#service-module sm2/0 install url ftp://nam:blender@10.1.2.1/nam-app-x86_64.6-1-1-5.bin.gz Delete the installed Network Analysis Module (NAM) and proceed with new installation? [no]: yes Loading nam-app-x86_64.6-1-1-5.bin.gz.install.sre ! namlab-mc# *Jun 5 00:20:23.654: %SM_INSTALL-6-INST_RBIP: SM2/0 received msg: RBIP Registration Request *Jun 5 00:20:23.658: %SM_INSTALL-6-INST_RBIP: SM2/0 received msg: RBIP File Request namlab-mc#</pre>	<p>For example:</p> <p>When the message Application image upgrade complete. displays, your Cisco SRE NAM installation is complete.</p>

Command or Action	Purpose
<pre>*Jun 5 00:20:26.446: %SM_INSTALL-6-INST_RBIP: SM2/0 received msg: RBIP File Request namlab-mc# *Jun 5 00:20:47.226: %SM_INSTALL-6-INST_RBIP: SM2/0 received msg: RBIP File Request *Jun 5 00:20:47.786: %SM_INSTALL-6-INST_RBIP: SM2/0 received msg: RBIP File Request namlab-mc# *Jun 5 00:21:08.974: %SRE_SM-6-STATE_CHANGE: SM2/0 changing state from SERVICE_MODULE_STATE_ERRQ to SERVICE_MODULE_STATE_STDY namlab-mc# *Jun 5 00:21:20.853: %SM_INSTALL-6-INST_PROG: SM2/0 PROGRESSING: updated bootloader. *Jun 5 00:21:20.853: %SM_INSTALL-6-INST_PROG: SM2/0 PROGRESSING: starting download of ftp://nam:blender@10.1.2.1/nam-app-x86_64.6-1-1-5.bin.gz. namlab-mc# Install successful on SM2/0. Please wait for module to reset before next operation. *Jun 5 00:23:16.861: %SM_INSTALL-6-INST_SUCC_RESET: SM2/0 SUCCESS: Application image upgrade complete.. Please wait for module to reset before next operation namlab-mc# *Jun 5 00:24:52.636: %SM_INSTALL-6-INST_RBIP: SM2/0 received msg: RBIP Registration Request *Jun 5 00:24:52.636: %SM_INSTALL-6-INST_RESET_COMP: SM2/0: Module reset complete.</pre>	

Upgrading Cisco SRE NAM

For details about upgrading the Cisco SRE NAM, see the Upgrade document available at:

<http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-network-analysis-module-software/products-installation-guides-list.html>