

Installing Software on an EX-series Switch with a Single Routing Engine (CLI Procedure)

You can use this procedure to upgrade the JUNOS software on an EX-series switch with a single Routing Engine, including an individual member of a virtual chassis or all members of a virtual chassis, or an EX 8200 series switch using a single Routing Engine. To upgrade software on an EX 8200 series switch running two Routing Engines, see *Installing Software on an EX 8200 series Switch with Redundant Routing Engines (CLI Procedure)*.

To install software upgrades on an EX-series switch with a single Routing Engine using the CLI:

1. Download the software package as described in *Downloading Software Packages* from Juniper Networks.
2. (Optional) Back up the current software configuration to a second storage option. See the *JUNOS Software Installation and Upgrade Guide* at <http://www.juniper.net/techpubs/software/junos/junos95/index.html> for instructions on performing this task.
3. (Optional) Copy the software package to the switch. We recommend that you use FTP to copy the file to the `/var/tmp` directory.

This step is optional because the JUNOS software can also be upgraded when the software image is stored at a remote location. These instructions describe the software upgrade process for both scenarios.

4. Install the new package on the switch:



NOTE: A reboot, which will occur as part of the execution of the following command, is required to complete the software upgrade. If you want to reboot the switch at a later time, do not use the `reboot` option at this point of the procedure and enter the `request system reboot` command at a later time to reboot the switch.

```
user@switch> request system software add source reboot
```

Replace *source* with one of the following paths:

- For a software package that is installed from a local directory on the switch—`/pathname/package-name-m.nZx-distribution.tgz`.
- For a software package that is downloaded and installed from a remote location:
 - `ftp://hostname/pathname/package-name-m.nZx-distribution.tgz`
 - `http://hostname/pathname/package-name-m.nZx-distribution.tgz`

where *package-name-m.nZx-distribution.tgz* is, for example, `jinstall-ex-4200-9.4R1.8-domestic-signed.tgz`.

Include the optional **member** option to install the software package on only one member of a virtual chassis:

```
user@switch> request system software add source member member-id reboot
```

Other members of the virtual chassis are not affected. To install the software on all members of the virtual chassis, do not include the **member** option.

5. After the reboot has completed, log in and verify that the new version of the software is properly installed:

```
user@switch> show version
```

- Related Topics**
- Installing Software on EX-series Switches (J-Web Procedure)
 - Troubleshooting Software Installation
 - JUNOS Software Package Names
 - See the *JUNOS Software System Basics and Services Command Reference* at <http://www.juniper.net/techpubs/software/junos/junos95/index.html> for details about the **request system software add** command.
 - Understanding Software Installation on EX-series Switches