

Junos[®] Snapshot Administrator in Python 1.0 Release Notes

Release 1.0
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Revision 1

These release notes accompany Release 1.0 of Junos Snapshot Administrator. They describe application documentation and known problems with the software.

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Installing Junos Snapshot Administrator in Python

You install Junos Snapshot Administrator in Python (jsnapy) on a remote server in the network. Prior to installing jsnapy, ensure that the remote server is running an OS that is capable of running Python 2.6 or later. This includes, but is not limited to:

- Linux (Debian, Ubuntu, Fedora, CentOS, and FreeBSD)
- Mac OS X



NOTE: Although Microsoft Windows can run Python 2.6, jsnapy is not supported on Windows.

Due to the wide range of possible supported OSs, there are dependencies within each OS that must also be fulfilled. [Table 1 on page 3](#) shows the dependencies for each OS.

Table 1: jsnapy Dependencies

| OS | Dependencies |
|---------|--|
| CentOS | <ul style="list-style-type: none"> • pip • python-devel • libxml2-devel • libxslt-devel • gcc • openssl • libffi-devel |
| Debian | <ul style="list-style-type: none"> • python-pip • python-dev • libxml2-dev • libxslt-dev • libssl-dev • libffi-dev |
| Fedora | <ul style="list-style-type: none"> • python-pip • python-devel • libxml2-devel • libxslt-devel • gcc • openssl • libffi-devel |
| FreeBSD | <ul style="list-style-type: none"> • py27-pip • libxml2 • libxslt |
| OSX | <ul style="list-style-type: none"> • xcode • xquartz • pip |

Table 1: jsnapy Dependencies (continued)

| OS | Dependencies |
|--------|--|
| Ubuntu | <ul style="list-style-type: none"> • python-pip • python-dev • libxml2-dev • libxslt-dev • libssl-dev • libffi-dev |

There are two methods that can be used to install jsnapy: using the Python package manager, pip, or using a Python setup script, setup.py, from cloned github source code.

To install jsnapy using pip, enter the following command

```
user@jsnapy-server:~> sudo pip install git+https://github.com/Juniper/jsnapy.git
```

To download the source code and install with the setup script:

1. Clone the source code from github using one of the following options:

- a. Use the git command at the server CLI:

```
user@jsnapy-server:~> git clone https://github.com/Juniper/jsnapy.
```

- b. Download the source code as a zip file from <https://github.com/Juniper/jsnapy> by clicking the Clone or Download button.



NOTE: One of the options after clicking the Clone or Download button is to Open in Desktop. This option refers to the GitHub Desktop. This installation guide does not cover the installation or use of GitHub Desktop or installing jsnapy using GitHub Desktop.

2. Unzip the downloaded file:

```
user@server:~> unzip jsnapy-master.zip
```

3. Go to the jsnapy-master folder:

```
user@server:~> cd jsnapy-master
```

4. Use pip to install jsnapy:

```
user@server:~> sudo pip install dist/jsnapy-0.1.tar.gz
```

Jsnapy is under ongoing development by Juniper and is posted on GitHub. As such, there are often updates available. To update jsnapy to the latest development code after it is installed on your server, use the pip command with the update flag, as shown:

```
user@server:~ > sudo pip install -U git+https://github.com/Juniper/jsnapy.git
```

To update to the latest release code, use the pip command with the update flag, as shown:

```
user@server:~ > sudo pip install -U jsnapy
```

The jsnapy installer creates the files and directories listed in Table 7 on the jsnapy server under `/etc/jsnapy`:

Table 2: Directories and Files Contained in /etc/jsnapy

| Directory or File Name | Purpose |
|------------------------|---|
| jsnapy.cfg | This file specifies the default paths for configuration files, snapshot files, and test files. |
| logging.yml | This file specifies the settings for logging of jsnapy events and messages. |
| samples | This directory contains an assortment of sample configuration and test files. |
| snapshots | This directory is the default location for the storage of snapshot files created by jsnapy. The snapshots are stored here by device and test. |
| testfiles | This directory is the default location for storing jsnapy test files. |

Related Documentation

- [Junos Snapshot Administrator in Python Overview](#)
- [Understanding Junos Snapshot Administrator in Python Configuration Files](#)

New Features in Junos Snapshot Administrator in Python, Release 1.0

You can perform the following actions using Junos Snapshot Administrator in Python Release 1.0:

- Take a snapshot of the runtime environment on a device.
- Compare two snapshots.
- Audit a device's runtime environment against pre-defined criteria.
- Use as a module in other Python programs.
- Send test results by email.
- Store and compare snapshots in a SQLite database.

Related Documentation

- [Junos Snapshot Administrator in Python Guide](#)

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post sales technical support, you can access our tools and resources online or open a case with JTAC.

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- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <https://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <https://www.juniper.net/customers/support/>
- Search for known bugs: <https://www.juniper.net/kb/>
- Find product documentation: <https://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <https://kb.juniper.net/>
- Download the latest versions of software and review release notes: <https://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <https://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <https://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <https://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://entitlementsearch.juniper.net/entitlementsearch/>

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <https://www.juniper.net/cm/>.

- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, visit us at <https://www.juniper.net/support/requesting-support.html>.

If you are reporting a hardware or software problem, issue the following command from the CLI before contacting support:

```
user@host> request support information | save filename
```

To provide a core file to Juniper Networks for analysis, compress the file with the **gzip** utility, rename the file to include your company name, and copy it to **ftp.juniper.net/pub/incoming**. Then send the filename, along with software version information (the output of the **show version** command) and the configuration, to **support@juniper.net**. For documentation issues, fill out the bug report form located at <https://www.juniper.net/documentation/feedback/>.