Installing Jenkins on Red Hat distributions

On RPM-based distributions, such as Red Hat Enterprise Linux (RHEL), CentOS, Fedora or Scientific Linux, you can install Jenkins through `yum`.

Recent versions are available in a YUM repository.

Installation

Installation of a weekly version

Add the Jenkins repository to the yum repos, and install Jenkins from here.

```
sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins-ci.org/redhat/jenkins.repo
sudo rpm --import https://jenkins-ci.org/redhat/jenkins-ci.org.key
sudo yum install jenkins
```

Installation of an LTS version

There is also a LTS YUM repository for the LTS Release Line

```
sudo rpm --import https://jenkins-ci.org/redhat/jenkins-ci.org.key
sudo yum install jenkins
```

Installation of Java

Jenkins requires Java in order to run, yet certain distros don't include this by default. To install the Open Java Development Kit (OpenJDK) run the following:

```
sudo yum install java
```

Note: If running an old version of CentOS, ensure you follow the guide below.

Start/Stop

```
sudo service jenkins start/stop/restart
sudo chkconfig jenkins on
```

Note: if you get the following error message, ensure that Java has been installed:

```
Starting jenkins [via systemctl]: Job for jenkins.service failed. See 'systemctl status jenkins.service' and 'journalctl -xn' for details.
[FAILED]
```

What does this package do?

- Jenkins will be launched as a daemon on startup. See `/etc/init.d/jenkins` for more details.
- The 'jenkins' user is created to run this service. If you change this to a different user via the config file, you must change the owner of `/var/log/jenkins`, `/var/lib/jenkins`, and `/var/cache/jenkins`.
- Log file will be placed in `/var/log/jenkins/jenkins.log`. Check this file if you are troubleshooting Jenkins.
- `/etc/sysconfig/jenkins` will capture configuration parameters for the launch.
- By default, Jenkins listen on port 8080. Access this port with your browser to start configuration. Note that the built-in firewall may have to be opened to access this port from other computers. (See [http://www.cyberciti.biz/faq/disable-linux-firewall-under-centos-rhel-fedora/](http://www.cyberciti.biz/faq/disable-linux-firewall-under-centos-rhel-fedora/) for instructions how to disable the firewall permanently)
- A Jenkins RPM repository is added in `/etc/yum.repos.d/jenkins.repo`

Configure the firewall
Important Note on CentOS Java

Jenkins requires Java in order to run, however `yum install jenkins` does not enforce that java is already installed. Check to make sure that you already have java installed by running `java -version`. To further make things difficult for CentOS users, the default CentOS version of Java is not compatible with Jenkins. Jenkins typically works best with a Sun implementation of Java, which is not included in CentOS for licensing reasons.

If you get output similar to the following, it means you’re using the default (GCJ) version of Java, which will not work with Jenkins:

```
java -version
java version "1.7.0"
gij (GNU libgcj) version 4.4.6 20110731 (Red Hat 4.4.6-3)
```

To correct this, you may need to remove the GCJ version of Java and install a Sun-compatible version.

If you received the above output, uninstall the default java:

```
yum remove java
```

Then after you’ve uninstalled Java (or if you didn’t have Java installed at all to begin with). You need to install a Sun-compatible version of Java. The easiest approach is using OpenJDK, which is available through the EPEL repository (alternatively you may install an official RPM directly from Oracle). To install OpenJDK run the following:

```
yum install java-1.8.0-openjdk
```

Depending on your version of CentOS, the package name for OpenJDK may differ. Use `yum search openjdk` to check for the name of the package. If OpenJDK is not found at all through yum, you probably need to install the EPEL yum repository. After installation, you should be able to get the following output for java -version:

```
java -version
openjdk version "1.8.0_161"
OpenJDK Runtime Environment (build 1.8.0_161-b14)
OpenJDK 64-Bit Server VM (build 25.161-b14, mixed mode)
```