

# Installing Jetty RPMs

## Installing the prerequisites / dependencies

The Jetty RPMs need some prerequisites such as java and ant. These may be included by hand or a tool like yum or up2date may be used.

There are differences between the distributions in the packaging, versioning and availability of these prerequisites and this page is only an indication of some install paths. The documentation for your distro is probably a better place to look. Good resources to read include:

- <http://rpm.org>
- <http://jpackage.org>
- <http://docs.fedoraproject.org/drafts/rpm-guide-en>

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## Jetty RPM Dependency Structure

- servlet25: Requires: java >= 0:1.4.2
- jetty6-core: Requires: servlet25, java >= 0:1.4.2
- jetty6: Requires: jetty6-core
- jetty6-plus: Requires: jetty6-core, java >= 0:1.5.0, servlet25
- jetty6-demos: Requires: jetty6
- jsp (jetty6-jsp-2.1-6.1.16-1jpp): Requires: ant >= 1.6, java >= 0:1.5.0 (jsp2.1)
- ant 1.6.5 RPM: Requires: crimson 1.1.3, xml-commons 1.3, xml-commons-jaxp-1.3 (these RPMs including ant can be found at jpackage repository)

## Using Yum for dependencies

Yum is a tool that can find and install dependent RPMs and is used by some distributions like fedora. First you will need to add JPackage Yum Repo so that 3rd party RPM Dependencies of Jetty can be automatically downloaded and installed, dependencies such as ant, crimson, xml-commons, and xml-commons-jaxp

Note: The <http://jpackage.org> site is a good source of java RPMs and information.

As root:

```
cd /etc/yum.repos.d
wget http://jpackage.org/jpackage.repo
```

The dependencies can now be installed with yum commands:

```
yum install ant
```

Note it is also possible to create a local yum repository to hold the jetty RPMs and then a single command can be used to load Jetty and its dependencies (see below).

## Manual dependencies

If yum (or similar) is not available, the dependencies may be installed manually:

- Download Required RPMs from JPackage Repository

```
wget http://mirrors.dotsrc.org/jpackage/1.7/generic/free/RPMS/ant-1.6.5-4jpp.noarch.rpm
wget http://mirrors.dotsrc.org/jpackage/1.7/generic/free/RPMS/crimson-1.1.3-17jpp.noarch.rpm
wget http://mirrors.dotsrc.org/jpackage/1.7/generic/free/RPMS/xml-commons-1.3.03-11jpp.noarch.rpm
wget http://mirrors.dotsrc.org/jpackage/1.7/generic/free/RPMS/xml-commons-jaxp-1.1-apis-1.3.03-11jpp.noarch.rpm
wget http://mirrors.dotsrc.org/jpackage/1.7/generic/free/RPMS/mx4j-3.0.1-7jpp.noarch.rpm
```

- if there are problems downloading each RPM file using the wget commands above, download each rpm from <http://www.jpackage.org/browser/browse.php> manually
- Install the downloaded RPMs

```
sudo rpm -isv xml-commons-jaxp-1.1-apis-1.3.03-11jpp.noarch.rpm
sudo rpm -isv crimson-1.1.3-17jpp.noarch.rpm
sudo rpm -isv ant-1.6.5-4jpp.noarch.rpm

sudo rpm -isv xml-commons-1.3.03-11jpp.noarch.rpm
sudo rpm -isv mx4j-3.0.1-7jpp.noarch.rpm
```

Java is also needed.

## Java dependency

Jetty needs at least java 1.4, although java5.0 or greater is recommended.

Jetty may work with the gcj java supplied by default on some distros, but the configuration will need to be changed to avoid add NIO connectors. It is best to get a full jdk.

see <http://jpackage.org/installation.php> for some instructions on how to do this.

## Using Yum

- installing Java 1.5 using yum, execute the code below

```
yum install jdk
```

- setting up JAVA\_HOME, on root account so that jetty will be able to find JAVA\_HOME, in your /etc/profile.d/ add a file named java.sh containing the code below

```
export JAVA_HOME="/usr/java/jdk1.5.0_12"
export JAVA_BIN="$JAVA_HOME/bin"

export
MAVEN_HOME="/home/webtide/java_applications/
maven/maven-2.0.6"
export MAVEN_BIN="$MAVEN_HOME/bin"

export PATH="$JAVA_BIN:$MAVEN_BIN:$PATH"
```

- execute the code below to apply the newly created environment variables

```
source /etc/profile
```

## Installing Jetty RPMs

The Jetty RPMs may be installed manually using rpm command or by creating a local yum repository that contains the jetty RPMs

### Manual install

- to manually install jetty using rpm execute the code below

```
rpm -ivh jetty6-servlet-2.5-api-6.1.16-1jpp.noarch.rpm
rpm -ivh jetty6-core-6.1.16-1jpp.noarch.rpm
rpm -ivh jetty6-6.1.16-1jpp.noarch.rpm
rpm -ivh jetty6-plus-6.1.16-1jpp.noarch.rpm
rpm -ivh jetty6-jsp-2.1-6.1.16-1jpp.noarch.rpm
#optional
rpm -ivh jetty6-javadoc-6.1.16-1jpp.noarch.rpm
rpm -ivh jetty6-demos-6.1.16-1jpp.noarch.rpm
```

## Using Yum to Install Jetty RPMs

- You need to Create a yum repository, so that your yum application could locate your Jetty RPM files, that it needs
- Create a local yum repository, add a repository configuration file in your /etc/yum.repos.d/jetty.repo containing the code below

```
[jetty6localrepo]
name=Jetty6 $releasever - Jetty6 Local Repo
baseurl=file:///where/your/jetty/rpms/is/located
enabled=1
gpgcheck=0
```

- execute a createrepo command to add necessary files for your repository

```
createrepo /where/your/jetty/rpms/is/located
```

- Jetty and its dependencies may then be installed with

```
yum install $package
```

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