
JenkinsDoc Documentation

Release 1.0

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INSTALLATION AND RUNNING OF JENKINS

1.1 Jenkins Debian package

First add the key to your system:

```
wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
```

Then add the following entry in your `/etc/apt/sources.list`:

```
deb https://pkg.jenkins.io/debian-stable binary/
```

Update your local package index, then finally install Jenkins:

```
sudo apt-get update  
sudo apt-get install jenkins
```

Now you can run Jenkins with:

```
sudo service jenkins {start|stop|restart}
```

You can access the Jenkins webinterface:

```
localhost:8080
```

Follow the instructions to create your admin account.

1.2 Jenkins generic Java Package (.war)

Download:

```
http://mirrors.jenkins.io/war-stable/latest/jenkins.war
```

Run:

```
java -jar jenkins.war --httpPort=8080
```

You can access the Jenkins webinterface:

```
localhost:8080
```

Follow the instructions to create your admin account.

CREATE A JOB FOR EPICS-BASE-7.0

At first you have to install the TAP-plugin. Go to *Manage Jenkins*->**Manage Plugins** and install the *TAP Plugin*

To create a job, click *New Item* and select *Freestyle project*, Enter a name and click *OK*. If you want to change the installation directory (default is `/opt/EPICS`) of epics-base click on the *Advanced..*-Button in the *General*-tab check *Use custom workspace* and enter a Directory path e.g. `/opt/EPICS/${JOB_NAME}`. If you choose to do this make sure the *Jenkins* user has the appropriate permission in that directory. To do that enter the following into the terminal:

```
sudo useradd -a -G root jenkins
sudo chmod --recursive a+rwX /opt/EPICS/epics-base
```

You also have to set your epics environment variables accordingly.

Now setup the git configuration inside the *Source Code Management*-tab

Select *Git* and enter the *Repository URL* `https://git.launchpad.net/epics-base`.

Add the Branch Specifier `core/master`

Add with *Additional Behaviours* **Advanced sub-modules behaviours** and select *Recursively update submodules*

In the *Build Triggers*-tab select *Build periodically* and enter the desired build schedule, e.g:

```
H 1 * * *
```

to update every Day roughly around 1am.

Now add a *build step* in the *Build*-tab, select *Execute shell* and enter:

```
make clean uninstall
make
make --no-print-directory -j4 tapfiles
make -s test-results
```

to build epics-base and make tests.

Now add a *post-build action* **Publish TAP Results** and enter:

```
**/O.*/*.tap
```

You can uncheck *Verbose* if wanted.

You can add another *post-build action* to send a *Editable Email Notification*