

Setting up Jenkins in Docker container as a separate server

=====

1# Create an ubuntu container

```
$ docker run -it --name jenkins-server-wk ubuntu /bin/bash
```

2# Create an user

```
$ useradd -m -d /home/gamut -s /bin/bash gamut
```

3# Setup the password for gamut

```
$ passwd gamut
```

4#

Install SSH so that other machines can connect to this jenkins server

```
$ apt-get update
```

```
$ apt-get install openssh-server
```

```
$ service ssh start (Start ssh server)
```

Install vim utility also for editing files

```
$ apt-get install vim
```

2#

- Create a folder in container for storing JDK and Tomcat installations

```
$ mkdir Distro
```

```
$ chmod 777 -R Distro
```

- Install JDK and Tomcat

Copy jdk and tomcat packages to the container from your host machine or directly download from web

```
$ scp apache-tomcat-8.5.34.tar.gz  
gamut@172.17.0.2:/home/gamut/Distro
```

```
$ scp jdk-8u151-linux-x64.tar.gz gamut@172.17.0.2:/home/gamut/Distro
```

- Extract both the packages using below command

```
$ tar -zxvf <package-name>
```

#

```
set JAVA_HOME environment variable in $USER_HOME/.bashrc (i.e  
/root/.bashrc)
```

```
export JAVA_HOME=/home/gamut/Distros/jdk1.8.0_151
export PATH=$JAVA_HOME/bin:$PATH
```

```
# Load .bashrc changes
source ~/.bashrc
```

```
# download and deploy 'jenkins.war' into tomcat's webapps directory
$ cd $TOMCAT_HOME/webapps
$ wget <jenkins-url>
```

```
# Start tomcat server.
$ cd $TOMCAT_HOME/bin
$ ./startup.sh
```

```
#
Launch jenkins using below URL
http://172.17.0.2:8080/jenkins
```

```
#
- When jenkins prompts for password, provide it and click on 'continue'
  ex: cat /root/.jenkins/secrets/initialAdminPassword
```

```
- Select 'install all suggested plugin' in the 2nd screen
```

```
- Create your own user and setup password
```

```
#
Install Git and Maven after creating the project.
```