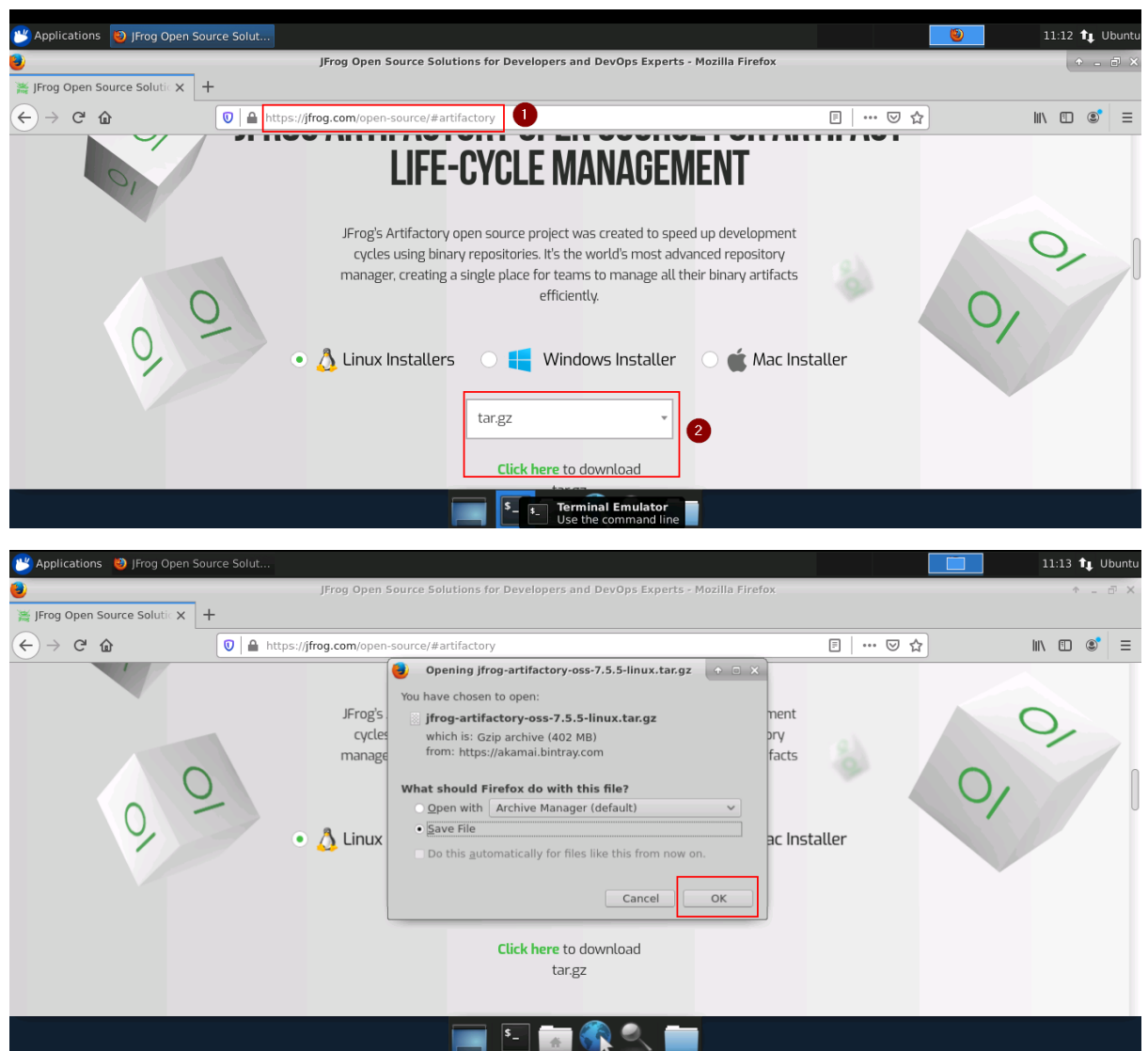


16. Demonstrate how artifactory can be installed.

Step 1: Installing Artifactory

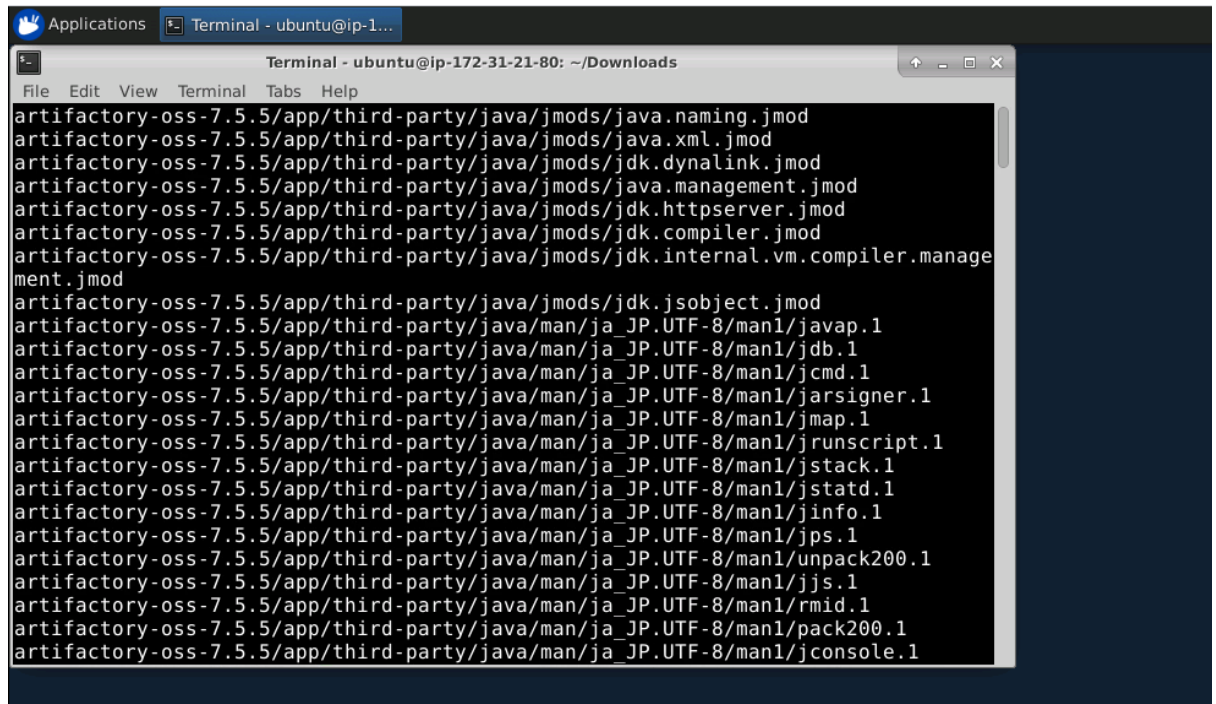
- Go to this link: <https://jfrog.com/open-source/#artifactory>.
- Download the tar.gz file as shown in the following screenshot



- Use the following command to extract the tar file.

```
cd Downloads
```

```
tar -xvf jfrog-artifactory-oss-7.5.5-linux.tar.gz
```

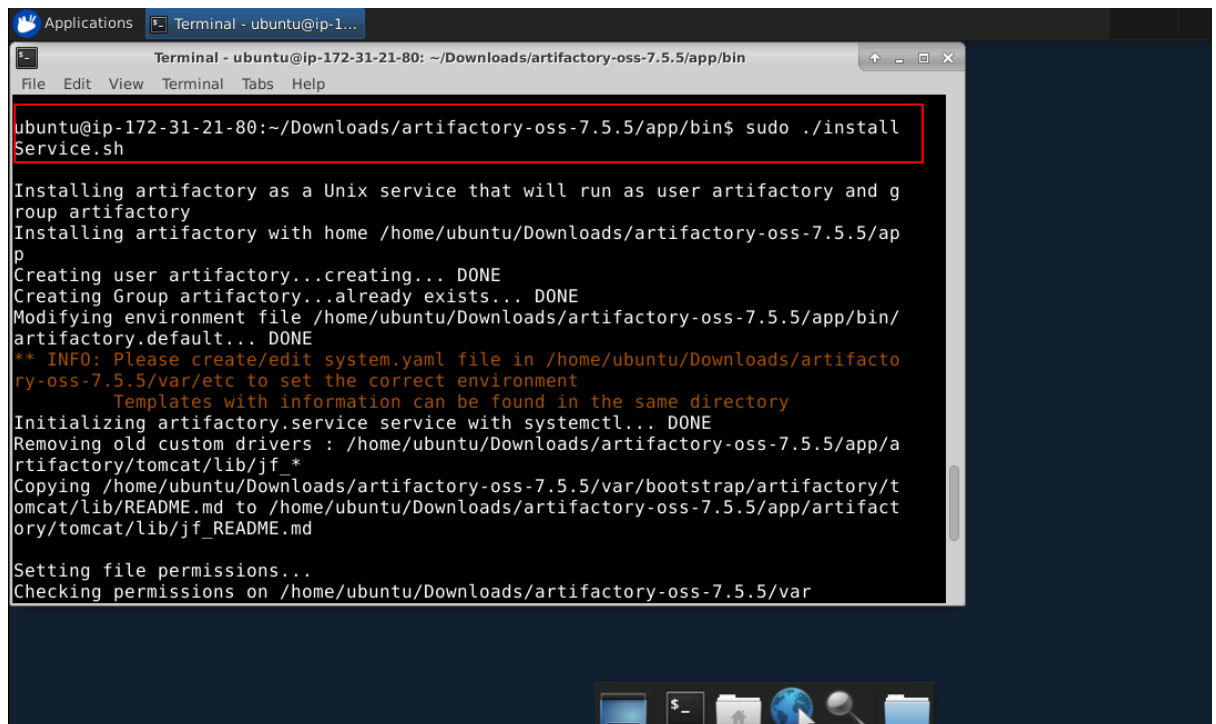
A terminal window titled "Terminal - ubuntu@ip-172-31-21-80: ~/Downloads" displays the output of a command that lists the contents of the extracted tar file. The output shows a long list of files and directories, including various Java modules and management files, all located within the "artifactory-oss-7.5.5/app/third-party/java/jmods/" directory.

```
artifactory-oss-7.5.5/app/third-party/java/jmods/java.naming.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/java.xml.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/jdk.dynalink.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/java.management.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/jdk.httpserver.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/jdk.compiler.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/jdk.internal.vm.compiler.management.jmod
artifactory-oss-7.5.5/app/third-party/java/jmods/jdk.jsobject.jmod
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/javap.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jdb.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jcmd.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jarsigner.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jmap.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jrunscript.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jstack.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jstatd.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jinfo.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jps.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/unpack200.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jjs.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/rmid.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/pack200.1
artifactory-oss-7.5.5/app/third-party/java/man/ja_JP.UTF-8/man1/jconsole.1
```

- The tar file will be extracted in a directory named artifactory-oss-7.5.5
- Open the command prompt and go to the bin of the Artifactory folder and run the following commands:

```
cd Downloads/artifactory-oss-7.5.5/artifactory/app/bin
```

```
sudo ./installService.sh
```

A terminal window titled "Terminal - ubuntu@ip-172-31-21-80: ~/Downloads/artifactory-oss-7.5.5/app/bin" shows the execution of the "installService.sh" script. The output includes instructions for installing Artifactory as a Unix service, creating a user and group, modifying environment files, and initializing the service. A red box highlights the command being executed.

```
ubuntu@ip-172-31-21-80:~/Downloads/artifactory-oss-7.5.5/app/bin$ sudo ./installService.sh

Installing artifactory as a Unix service that will run as user artifactory and group artifactory
Installing artifactory with home /home/ubuntu/Downloads/artifactory-oss-7.5.5/app
Creating user artifactory...creating... DONE
Creating Group artifactory...already exists... DONE
Modifying environment file /home/ubuntu/Downloads/artifactory-oss-7.5.5/app/bin/artifactory.default... DONE
** INFO: Please create/edit system.yaml file in /home/ubuntu/Downloads/artifactory-oss-7.5.5/var/etc to set the correct environment
      Templates with information can be found in the same directory
Initializing artifactory.service service with systemctl... DONE
Removing old custom drivers : /home/ubuntu/Downloads/artifactory-oss-7.5.5/app/artifactory/tomcat/lib/jf_*
Copying /home/ubuntu/Downloads/artifactory-oss-7.5.5/var/bootstrap/artifactory/tomcat/lib/README.md to /home/ubuntu/Downloads/artifactory-oss-7.5.5/app/artifactory/tomcat/lib/jf_README.md
Setting file permissions...
Checking permissions on /home/ubuntu/Downloads/artifactory-oss-7.5.5/var
```

- Now, run the command:

```
systemctl start artifactory.service
```

```
***** SUCCESS *****
Installation of Artifactory completed

Start Artifactory with:
> systemctl start artifactory.service

Check Artifactory status with:
> systemctl status artifactory.service

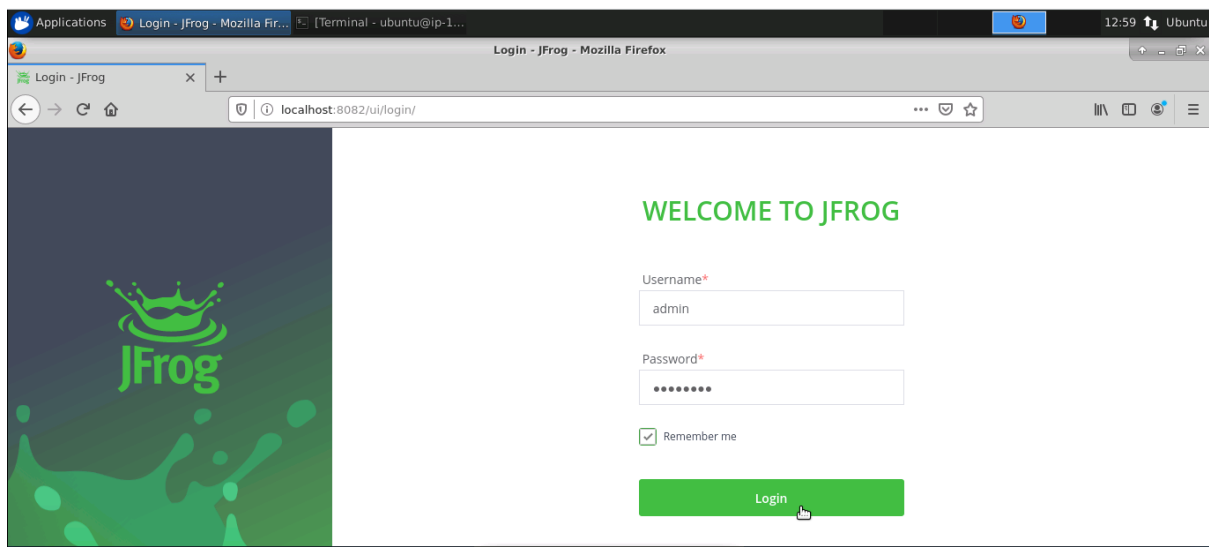
Logs can be found under /home/ubuntu/Downloads/artifactory-oss-7.5.5/var/log
System configuration templates can be found under /home/ubuntu/Downloads/artifac
tory-oss-7.5.5/var/etc
Copy any configuration you want to modify from the template to /home/ubuntu/Down
loads/artifactory-oss-7.5.5/var/etc/system.yaml

ubuntu@ip-172-31-21-80:~/Downloads/artifactory-oss-7.5.5/app/bin$ systemctl start ar
tifactory.service
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ====
Authentication is required to start 'artifactory.service'.
Authenticating as: Ubuntu (ubuntu)
Password:
==== AUTHENTICATION COMPLETE ====
ubuntu@ip-172-31-21-80:~/Downloads/artifactory-oss-7.5.5/app/bin$
```

- Now, go to the browser type- localhost:8081.
- Enter the following details:

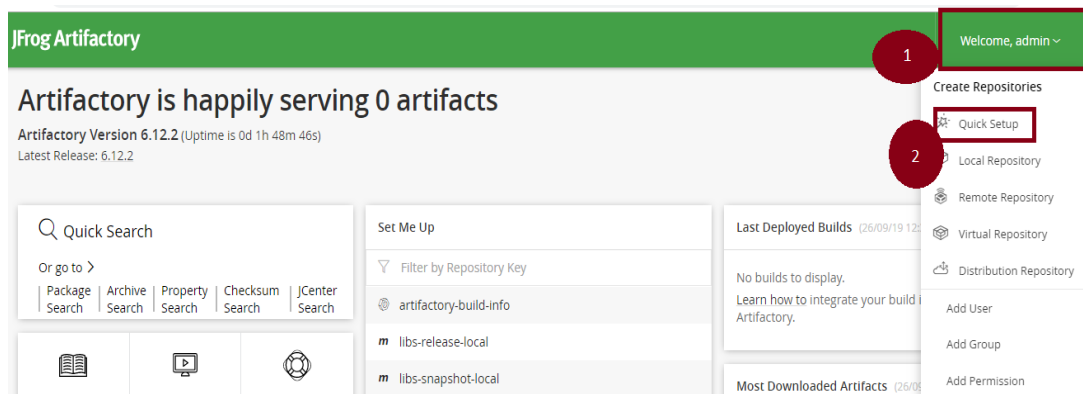
ID : admin

Password: password



- Click on 'Welcome Admin.'
- Click on 'Quick Setup.'

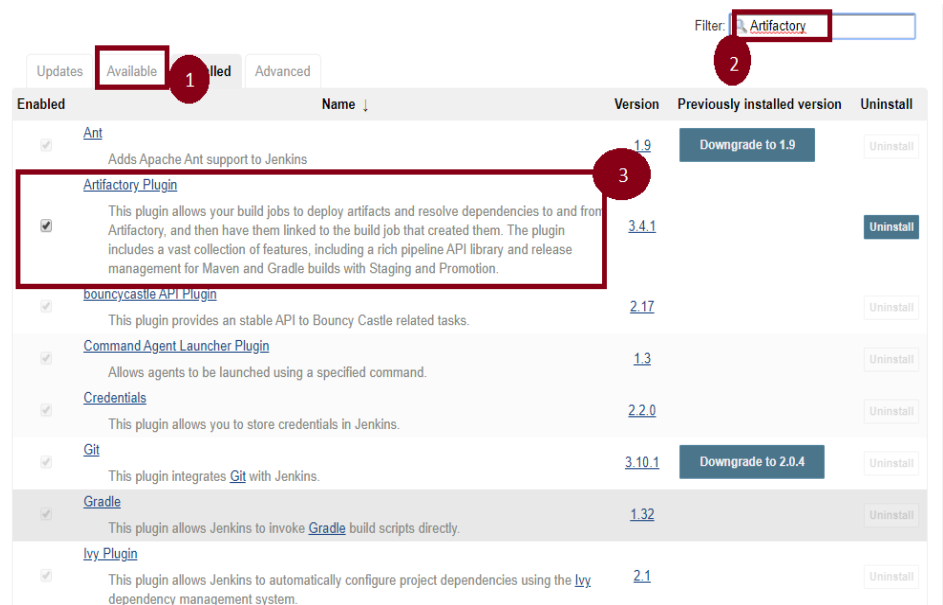
- Create a maven repository.



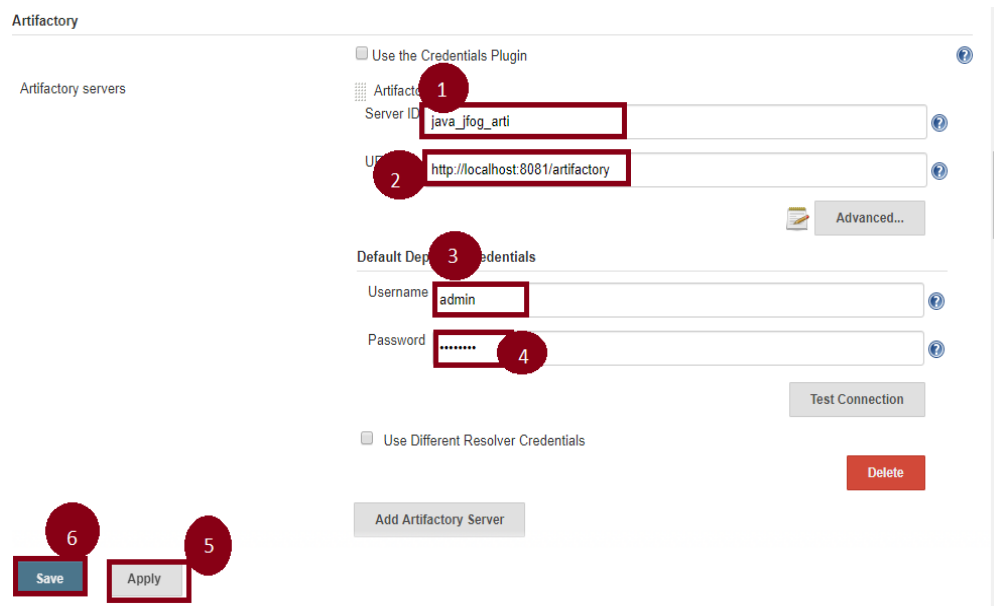
Step 2: Setting up Artifactory with Jenkins

- Jenkins is already installed in your practice lab. Refer to QA to QE lab guide for Phase 2 for more information.
- Open command line and run the following command:

```
sudo less /var/lib/jenkins/secrets/initialAdminPassword
```
- Copy the password displayed in the command line
- Go to localhost:8080 in the browser and paste the password in the given field
- Click on install suggested plugins
- Go to 'Manage Jenkins.'
- Click on 'Manage Plugin.'
- Select the available tab.
- Search for [Artifactory](#).



- Again, go to 'Manage Jenkins.'
- Go to 'Configure System.'
- There is an option Artifactory.
- Select 'Add Artifactory.'
- Pass the artifactory localhost URL.
- Now, pass the credentials.
- Click on 'Apply' and 'Save.'



Step 3: Pushing the Code to GitHub Repositories

Open your command prompt and navigate to the folder where you have created your files.

```
cd <folder path>
```

Initialize your repository using the following command:

```
git init
```

Add all the files to your git repository using the following command:

```
git add .
```

Commit the changes using the following command:

```
git commit . -m "Changes have been committed."
```

Push the files to the folder you initially created using the following command:

```
git push -u origin master
```