

Installing Jfrog using Docker and creating the package of Application and store in Artifactory

1. To install jfrog use the command below :
docker pull docker.bintray.io/jfrog/artifactory-oss:latest

```
Status: Downloaded newer image for docker.bintray.io/jfrog/artifactory-oss:latest
DevOpsVm2@DevOpsVm2:~$ docker pull docker.bintray.io/jfrog/artifactory-oss:latest
latest: Pulling from jfrog/artifactory-oss
25e46ad006a2: Already exists
6120fb24637f: Already exists
6c171da34ea3: Already exists
67b15b286e30: Already exists
ccac6f6634e0: Pull complete
9f4968dc5b91: Pull complete
de6bb10b3372: Pull complete
cd6b397acf4a: Pull complete
ed7b814cd08d: Pull complete
0ab629eaa12d: Pull complete
71be8963e596: Pull complete
Digest: sha256:cea2660e63da6cc432d58c90clad03210bb44999fe678afa1c8977a861d37d48
Status: Downloaded newer image for docker.bintray.io/jfrog/artifactory-oss:latest
```

2. To check all images in the vm use the below command :
docker images

```
DevOpsVm2@DevOpsVm2:~$ docker images
REPOSITORY                                TAG                IMAGE ID           CR
EATED                SIZE
bhatti13/2_secondrepository               latest            6e007d797d4f      Ab
out an hour ago    510MB
bhatti13/1first_repository                 latest            8080f1b2e2b8      Ab
out an hour ago    510MB
diptib/dipti_java_project                 latest            dc4b16d5437f      17
hours ago          528MB
diptib/dipti_java_project                 <none>            49f8b1df65a3      18
hours ago          528MB
bhatti13/1first_repository                 <none>            12525960c1a7      18
hours ago          510MB
a30sham/roomapp                           latest            9062b0473d14      22
hours ago          538MB
mysql                                       latest            a7a67c95e831      27
hours ago          541MB
mysql/mysql-server                        latest            716286be47c6      47
hours ago          381MB
docker.bintray.io/jfrog/artifactory-pro   latest            d21a941e2e6a      3
days ago          879MB
docker.bintray.io/jfrog/artifactory-oss   latest            3ed8110393b1      3
days ago          793MB
sonarqube                                 latest            f02790b4f520      5
days ago          504MB
sonarqube                                 lts               2b02f27ae9f6      5
```

3. To run the jfrog on port 8082 we will be using command as given below :
docker run --name artifactory -d -p 8082:8082 docker.bintray.io/jfrog/artifactory-oss:latest

```
DevOpsVm2@DevOpsVm2:~$ docker run --name artifactory -d -p 8082:8082 docker.bintray.io/jfrog/artifactory-oss:latest
6b208adada132c4435735bdca961422a910d573753fa7f4fbdd4d59e85e804db
DevOpsVm2@DevOpsVm2:~$ docker ps
```

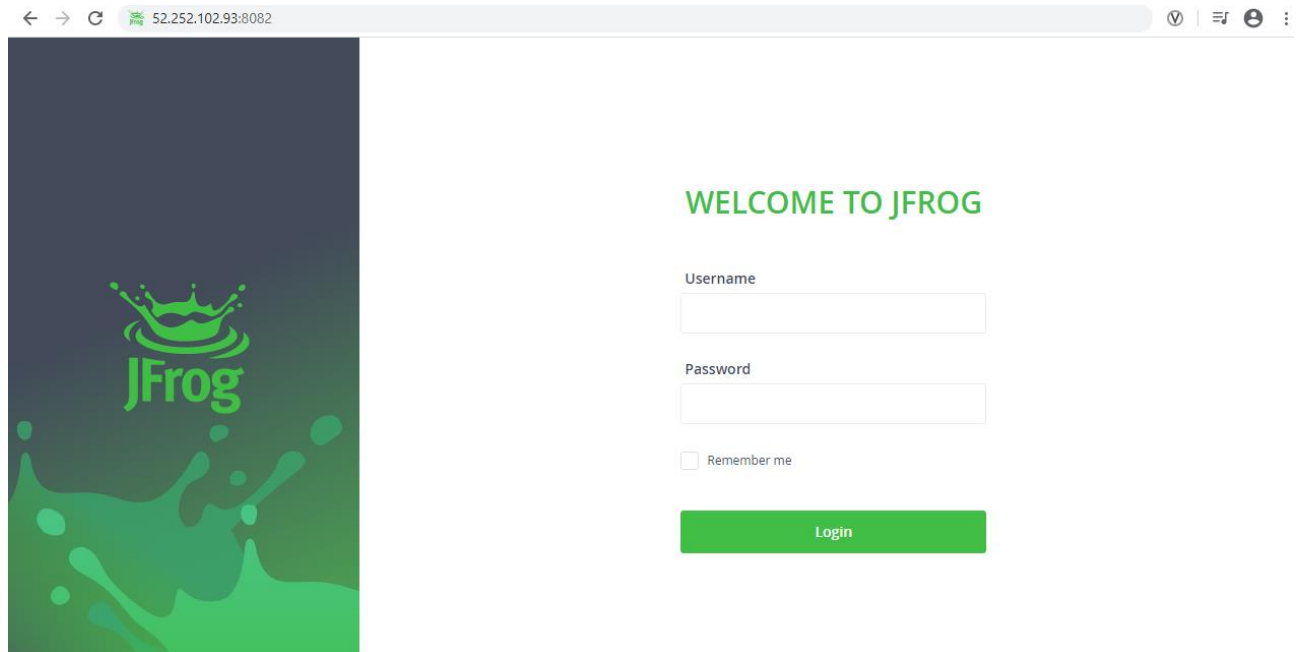
4. To display all the containers in the docker we will be using the following command :
- ```
docker ps
```

```
6b208adada192c4459793bdc2961422a910d3797991a7f41bda4d39e693e604db
DevOpsVm2@DevOpsVm2:~$ docker ps
```

| CONTAINER ID | IMAGE                                          | STATUS                     | PORTS                            | COMMAND                  |
|--------------|------------------------------------------------|----------------------------|----------------------------------|--------------------------|
| 6b208adada13 | docker.bintray.io/jfrog/artifactory-oss:latest | Up About a minute          | 8081/tcp, 0.0.0.0:8082->8082/tcp | "/entrypoint-artifac..." |
| a0ea0f913372 | mysql/mysql-server                             | Up About an hour (healthy) | 3306/tcp, 33060/tcp              | "/entrypoint.sh"         |
| e1976a38e798 | mysql/mysql-server                             | Up 2 hours (healthy)       | 3306/tcp, 33060/tcp              | "/entrypoint.sh"         |
| a2b5f663b8f5 | sonarqube                                      | Up 19 hours                | 0.0.0.0:9000->9000/tcp           | "./bin/run.sh"           |

```
kind_murdock
```

5. After Running jfrog image on docker use the url <http://server:8082/artifactory> and register to jfrog



← → ↻ 52.252.102.93:8082

## WELCOME TO JFROG

Username

Password

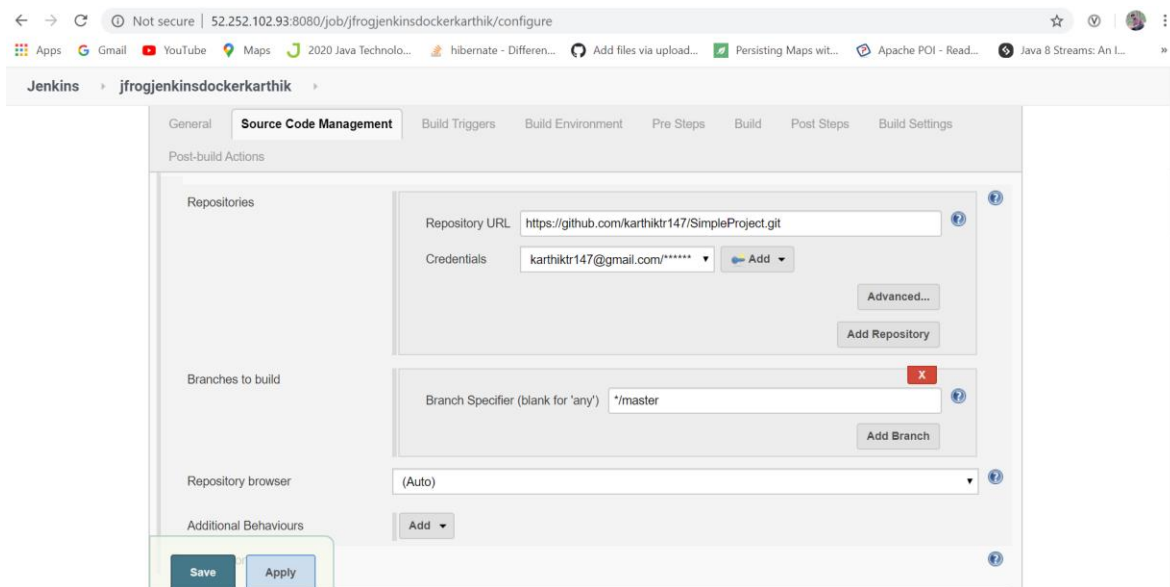
☐ Remember me

Login

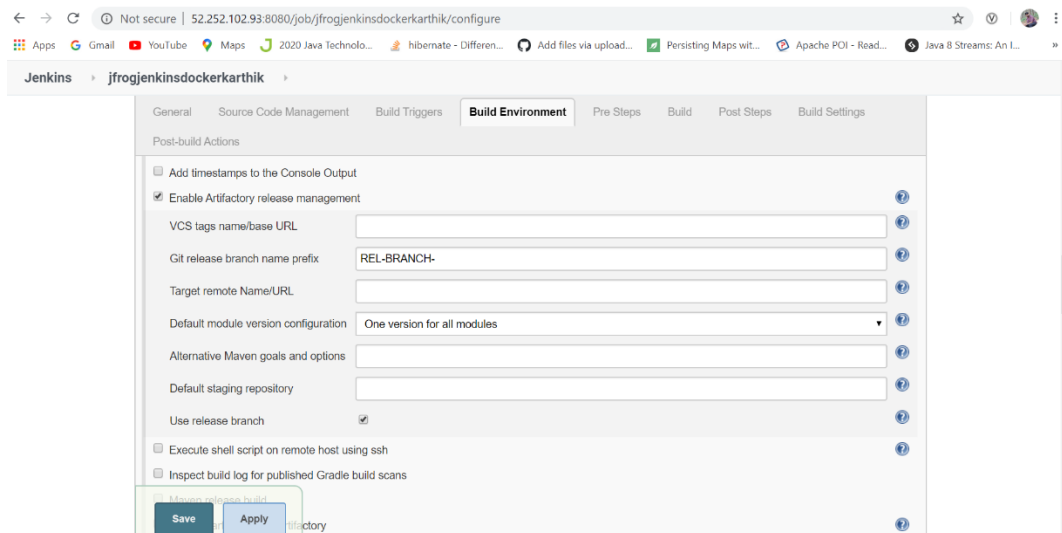
# Creating the Package of application and storing it in the Artifactory :

Step 1: Create a new

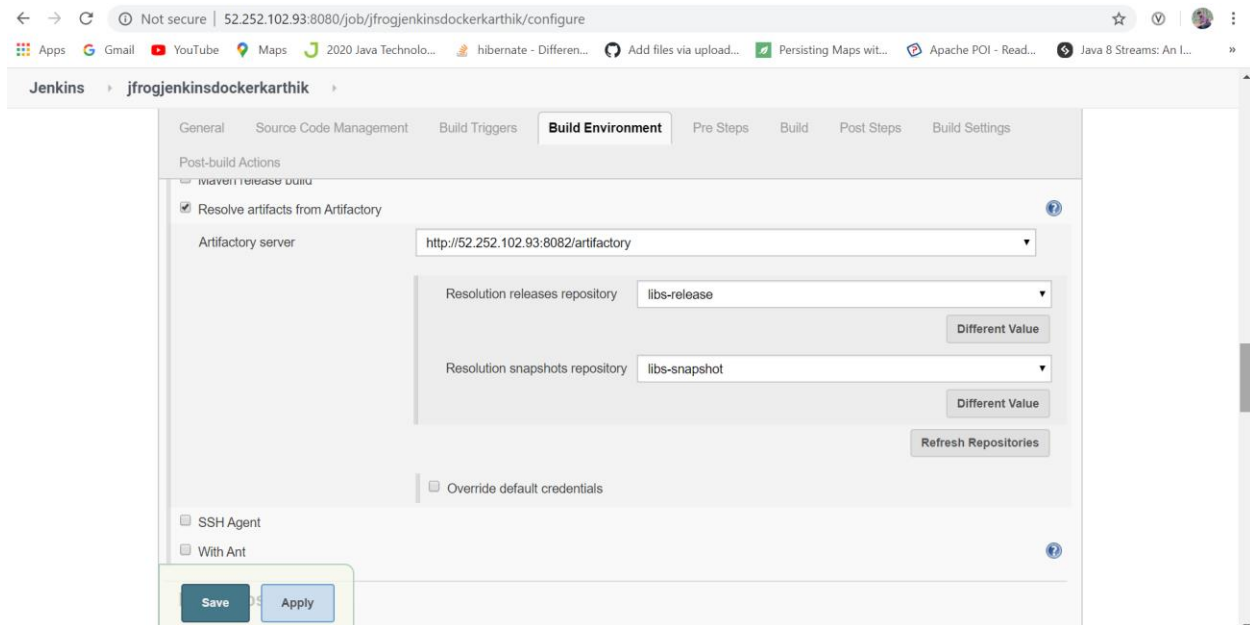
project in Jenkins, clone your project of your git by mentioning the repository url of your project in source code management and give the credentials as shown in the image below :



Step 2: In the Build Environment tick Enable Artifactory release management as shown in the image below.

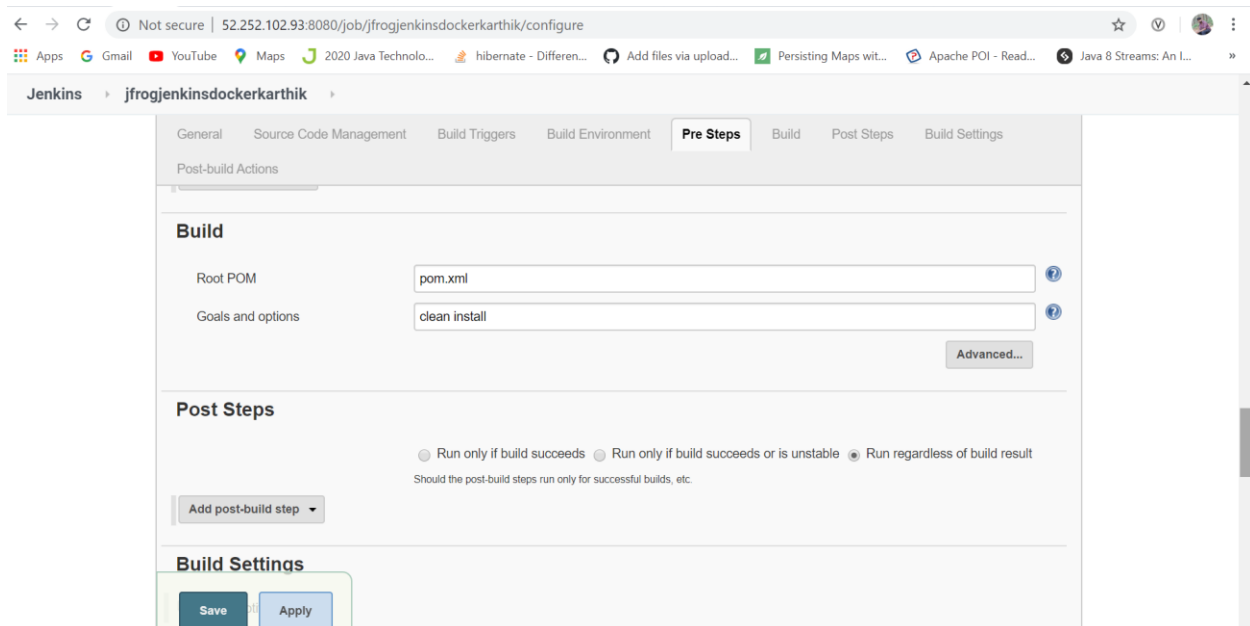


Step 3: In the Build environment tick Resolve artifacts from Artifactory and click on refresh Repositories and from the dropdown in Resolution snapshots repository select libs-snapshot.



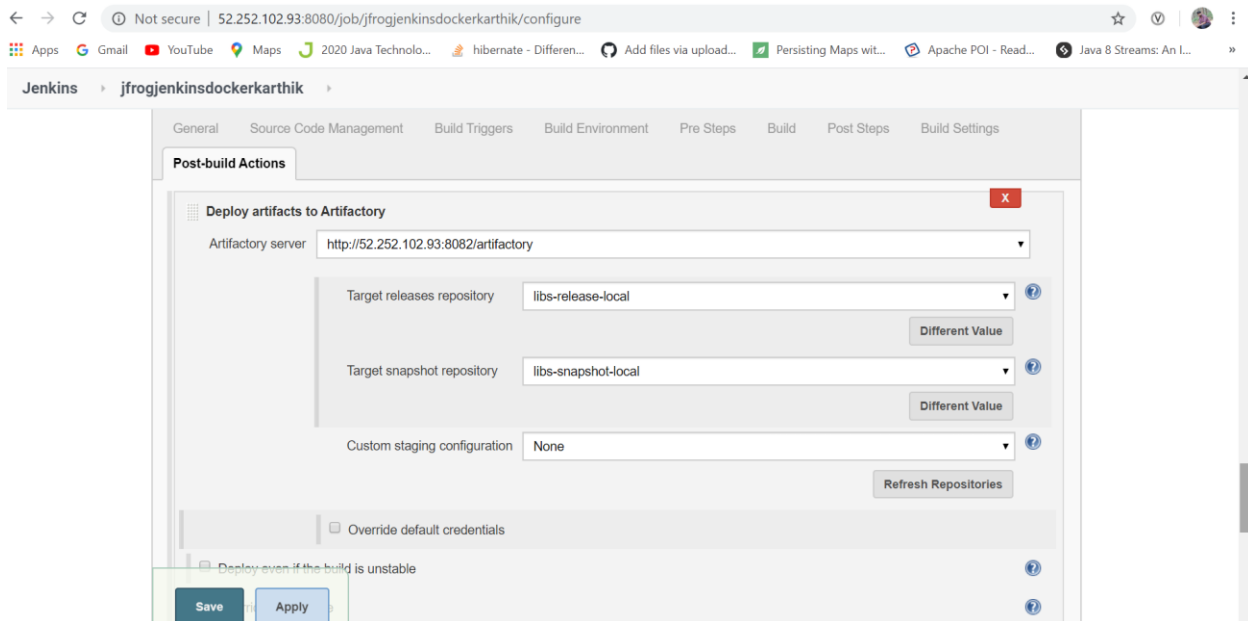
The screenshot shows the Jenkins configuration page for a job named 'jfrogjenkinsdockerkarthik'. The 'Build Environment' tab is selected. Under 'Post-build Actions', the checkbox 'Resolve artifacts from Artifactory' is checked. The 'Artifactory server' is set to 'http://52.252.102.93:8082/artifactory'. The 'Resolution releases repository' is set to 'libs-release' and the 'Resolution snapshots repository' is set to 'libs-snapshot'. There are 'Different Value' buttons next to these dropdowns and a 'Refresh Repositories' button. At the bottom, there are checkboxes for 'SSH Agent' and 'With Ant', and 'Save' and 'Apply' buttons.

Step 4 : In Build mention I have mentioned clean install.

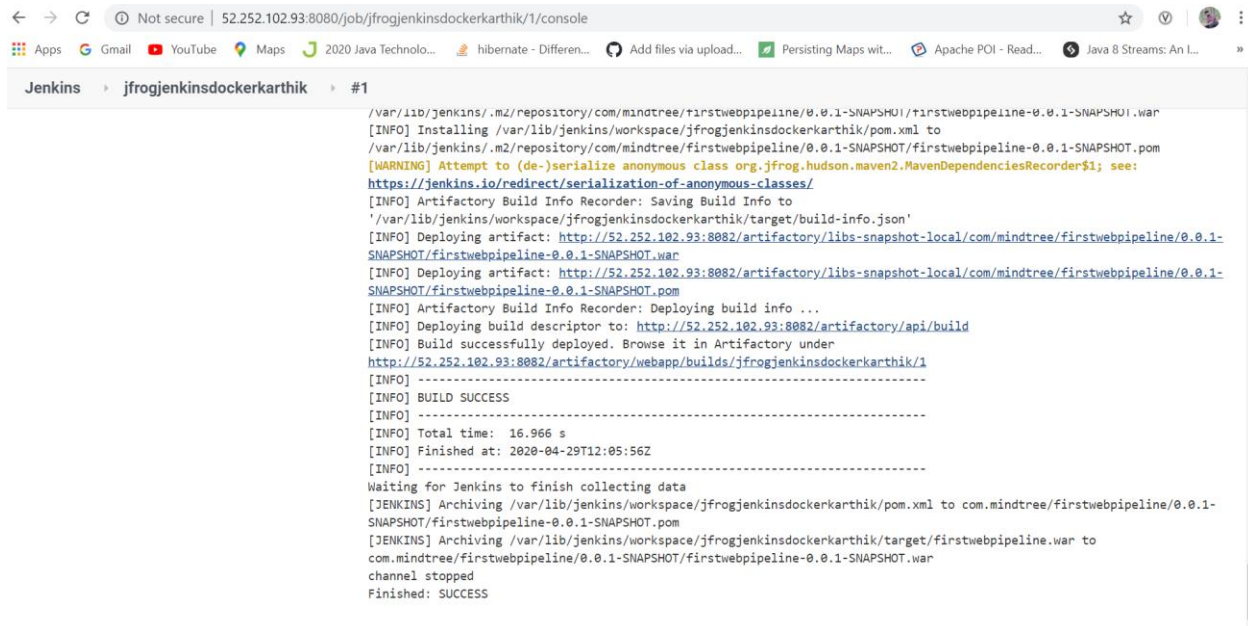


The screenshot shows the Jenkins configuration page for the same job, now with the 'Pre Steps' tab selected. Under the 'Build' section, the 'Root POM' is set to 'pom.xml' and the 'Goals and options' are set to 'clean install'. There is an 'Advanced...' button next to the 'Goals and options' field. Under the 'Post Steps' section, there are radio buttons for 'Run only if build succeeds', 'Run only if build succeeds or is unstable', and 'Run regardless of build result'. The 'Run regardless of build result' option is selected. Below this, there is a text box that says 'Should the post-build steps run only for successful builds, etc.' and an 'Add post-build step' button. At the bottom, there are 'Save' and 'Apply' buttons.

Step 5: In post build actions tick select Deploy artifacts to Artifactory and click on refresh Repositories and from the dropdown in Target snapshots repository select libs-snapshot.



Step 6: After Following above click on save and apply and click on build now after that below is the console output of the build results.



Below is the image of the artifacts added to jfrog artifactory .

The screenshot shows the JFrog Artifactory Open Source web interface. The browser address bar indicates the URL is 52.252.102.93:8082/ui/builds/jfrogjenkinsdockerkarthik. The left sidebar contains navigation links: Application (highlighted), Dashboard, Artifactory, Packages, Builds, Artifacts, Distribution, and Pipelines. The main content area is titled 'Builds > jfrogjenkinsdockerkarthik'. It features a 'Filter' input field and a table with the following columns: Build ID, CI Server, Status, Build Time, and Xray status. A single build is listed with ID 1, CI Server http://52.252.102.93..., Build Time 29-04-20 17:35:40 +..., and Xray status Requires an Xray licer. The footer of the sidebar shows the JFrog logo and text: Open source license 7.4.3 rev 70403900 undefined, © Copyright 2020 JFrog Ltd.

| Build ID | CI Server               | Status | Build Time             | Xray status            |
|----------|-------------------------|--------|------------------------|------------------------|
| 1        | http://52.252.102.93... |        | 29-04-20 17:35:40 +... | Requires an Xray licer |