Table of Contents

DevOps Practice from Alibaba Cloud

Install Jekins

steps here

Install Maven

steps here

Install Docker

steps here

Configuration

sudo for jenkins user

```
usermod -aG sudo jenkins
```

Modify sudoers with visudo as follows:

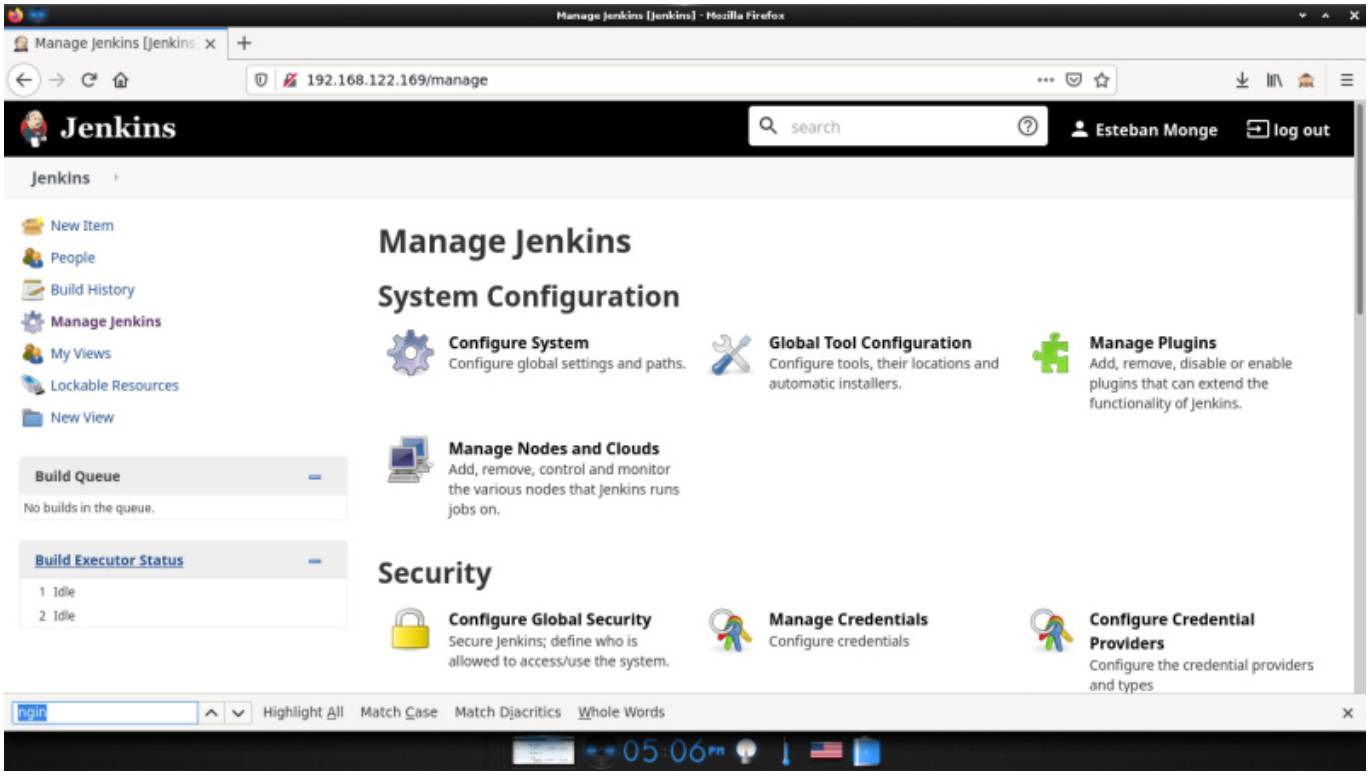
```
%sudo   ALL=(ALL:ALL) NOPASSWD: ALL
```

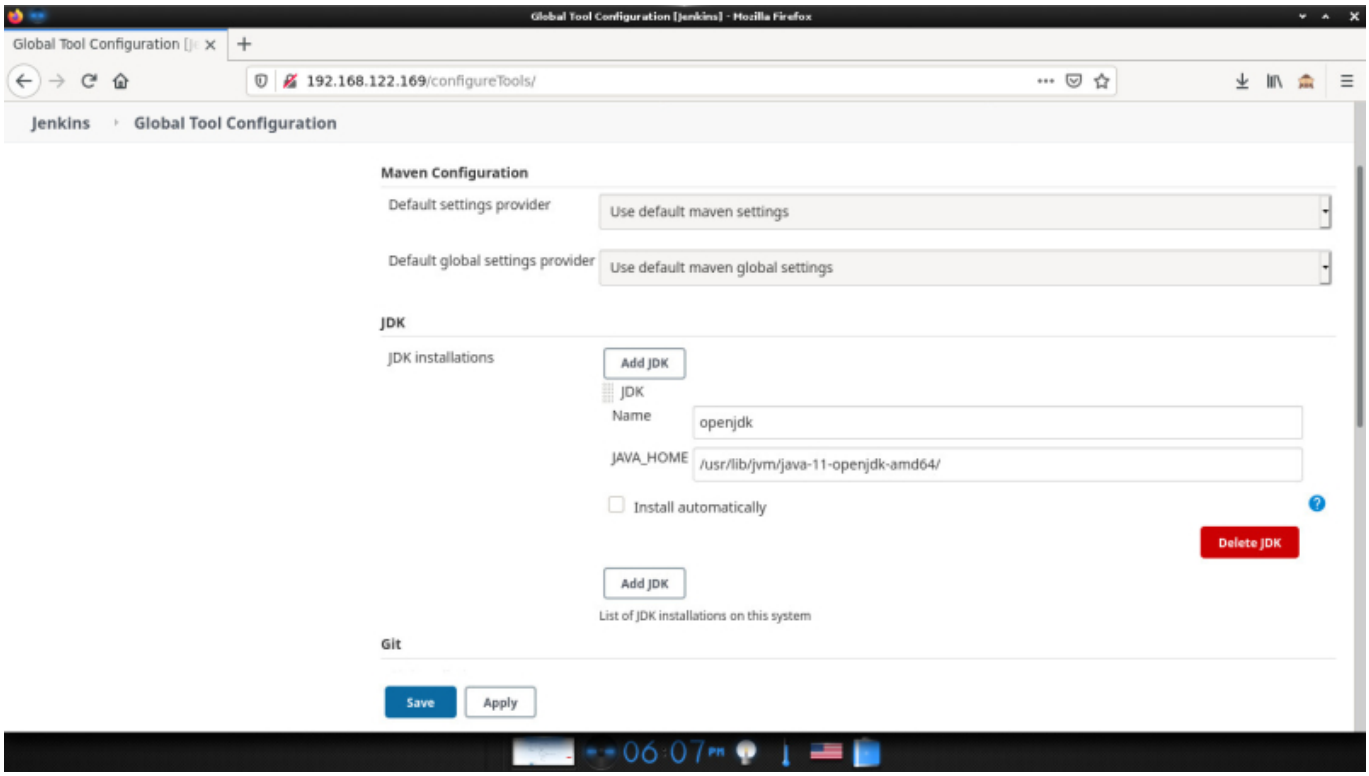
create build path

```
mkdir /var/lib/jenkins/build
chown jenkins.jenkins /var/lib/jenkins/build
```

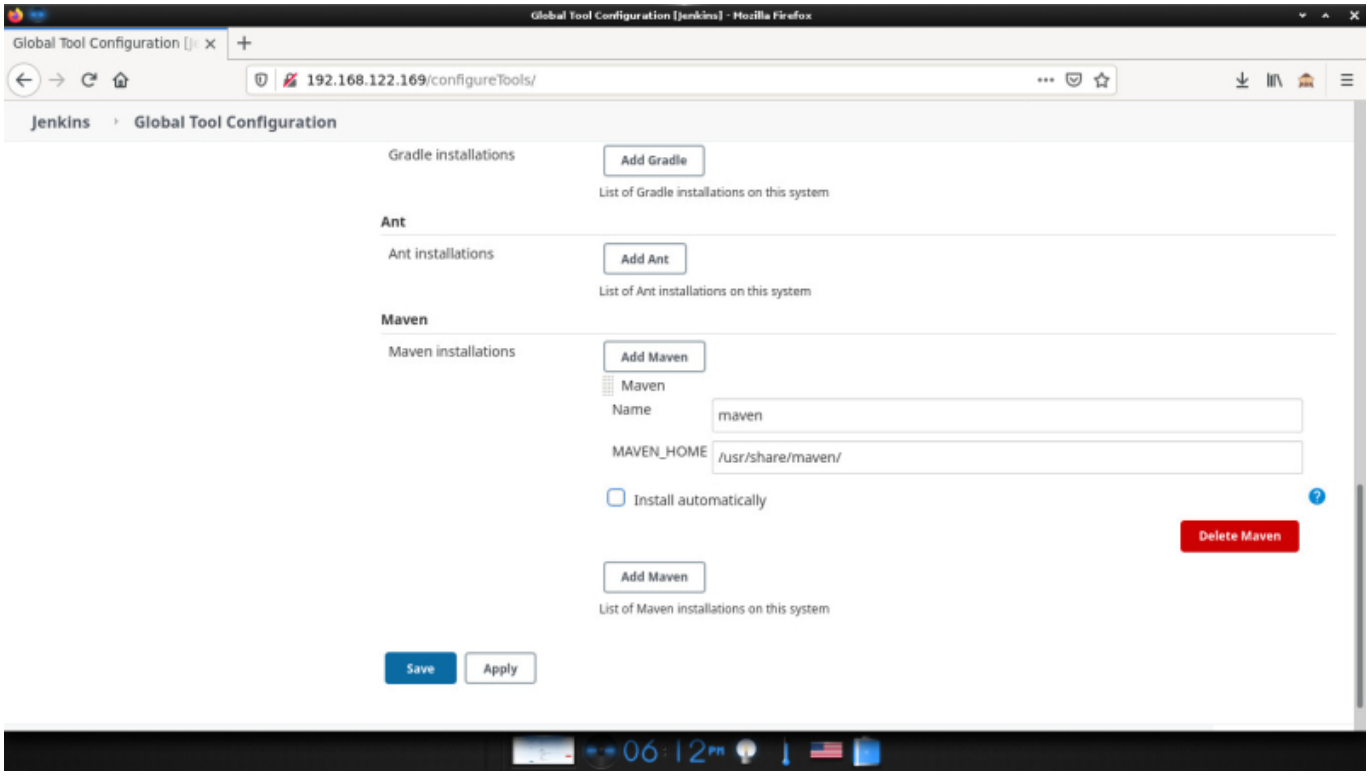
Jenkins configuration

Enter to web page and follow steps as show on images:



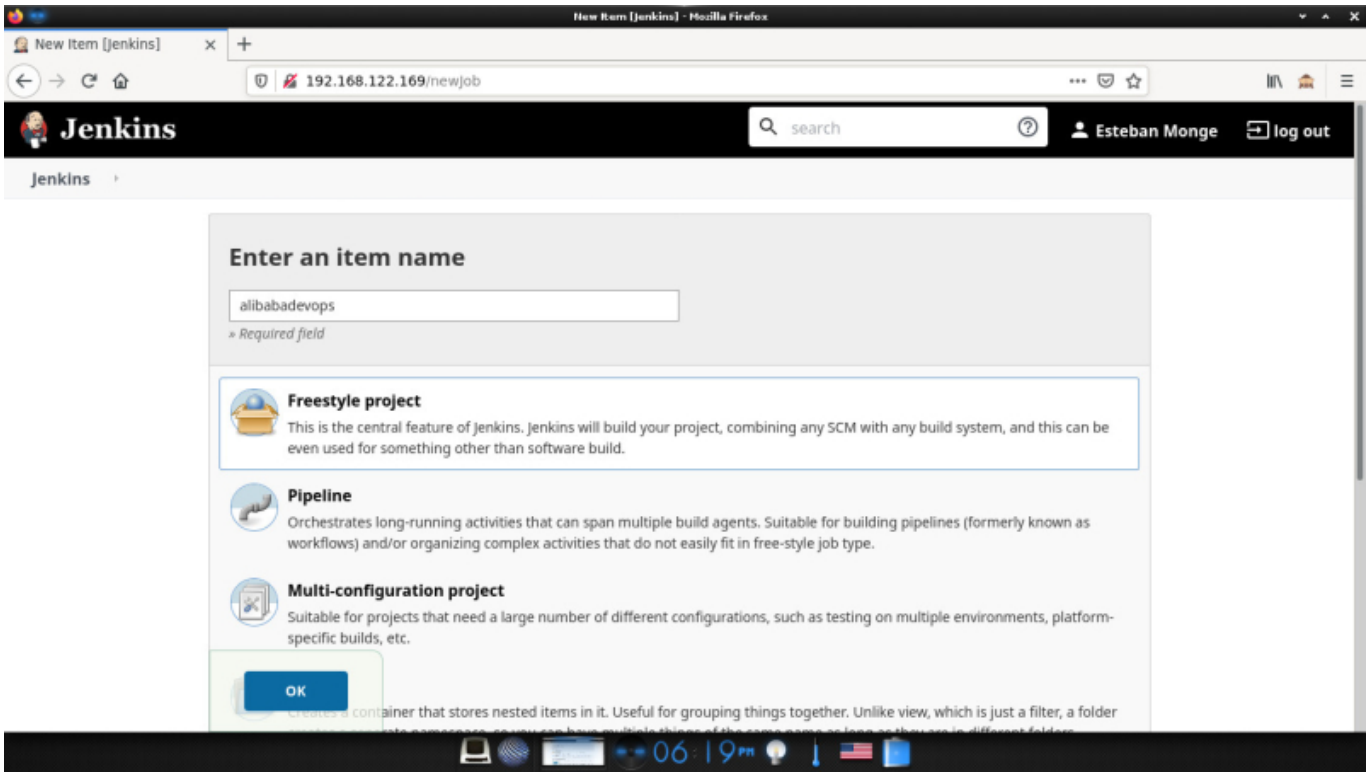


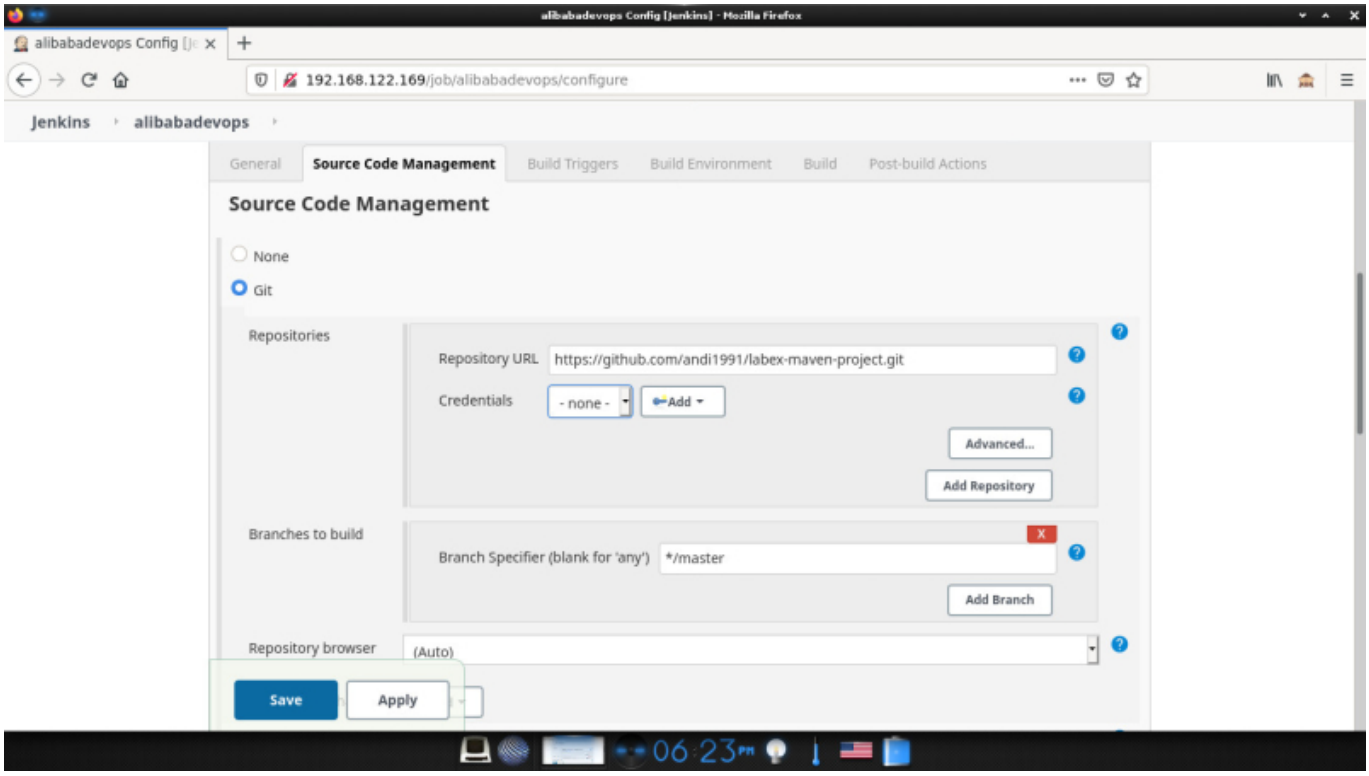

```
/usr/lib/jvm/java-11-openjdk-amd64/
```

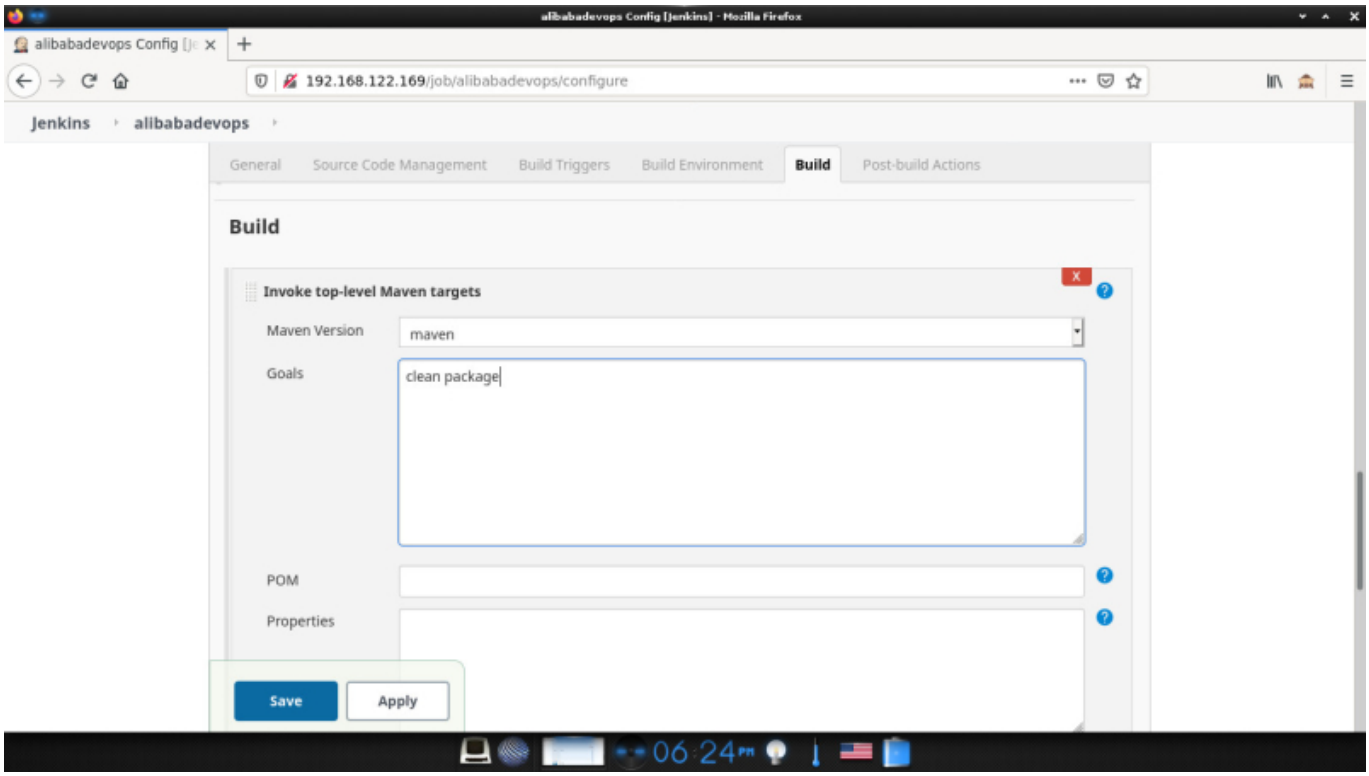


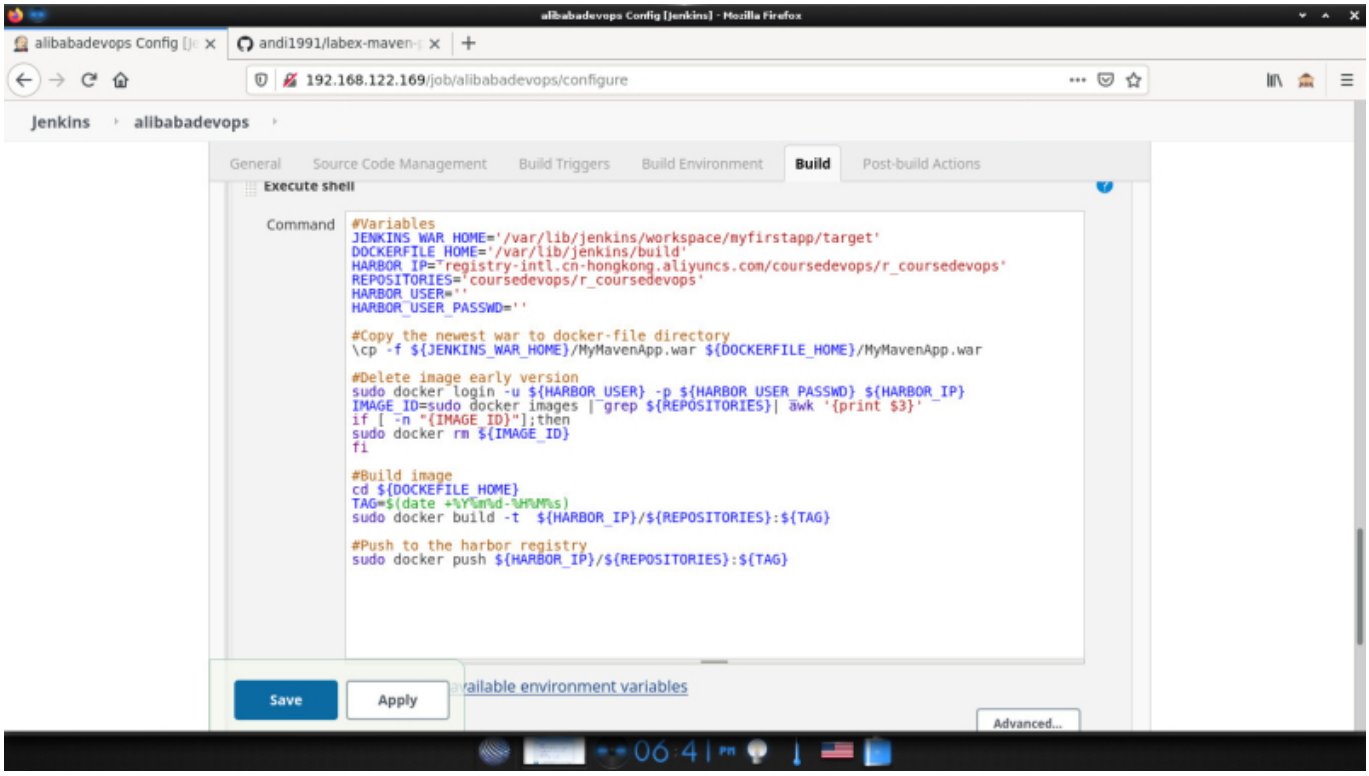

```
/usr/share/maven/
```

Create a new Freestyle project job:




alibabadevops Config [Jenkins] - Mozilla Firefox
alibabadevops Config [J
192.168.122.169/job/alibabadevops/configure
Jenkins
alibabadevops
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Source Code Management
None
Git
Repositories
Repository URL
https://github.com/andi1991/labex-maven-project.git
Credentials
- none -
Add
Advanced...
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master
Add Branch
Repository browser
(Auto)
Save
Apply
06:23 PM


alibabadevops Config [Jenkins] - Mozilla Firefox
alibabadevops Config [J
192.168.122.169/job/alibabadevops/configure
Jenkins
alibabadevops
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Build
Invoke top-level Maven targets
Maven Version
maven
Goals
clean package
POM
Properties
Save
Apply
06:24 PM




```
#Variables
JENKINS_WAR_HOME='/var/lib/jenkins/workspace/alibabadevops/target'
DOCKERFILE_HOME='/var/lib/jenkins/build'
HARBOR_IP='registry-intl.cn-
hongkong.aliyuncs.com/coursedevops/r_coursedevops'
REPOSITORIES='coursedevops/r_coursedevops'
HARBOR_USER=''
HARBOR_USER_PASSWD=''

#Copy the newest war to docker-file directory
\cp -f ${JENKINS_WAR_HOME}/MyMavenApp.war ${DOCKERFILE_HOME}/MyMavenApp.war

#Delete image early version
sudo docker login -u ${HARBOR_USER} -p ${HARBOR_USER_PASSWD} ${HARBOR_IP}
IMAGE_ID=sudo docker images | grep ${REPOSITORIES}| awk '{print $3}'
if [ -n "{IMAGE_ID}"];then
sudo docker rm ${IMAGE_ID}
fi

#Build image
cd ${DOCKERFILE_HOME}
TAG=$(date +%Y%m%d-%H%M%s)
sudo docker build -t ${HARBOR_IP}/${REPOSITORIES}:${TAG} .

#Push to the harbor registry
sudo docker push ${HARBOR_IP}/${REPOSITORIES}:${TAG}
```

Install Terraform

steps here