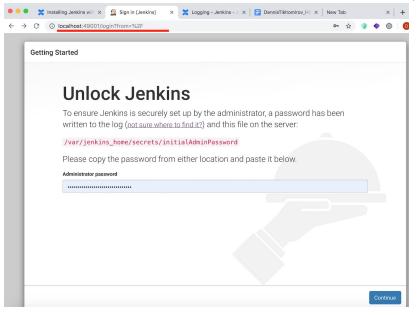
Task 10. Jenkins+Pipeline

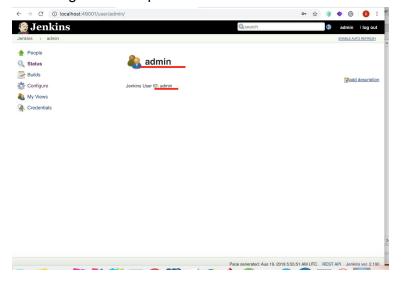
- 1. Install and start Jenkins.
- 1.1 I used Docker installation:

```
docker pull jenkins
docker run -d -p 49001:8080 -v $PWD/jenkins:/var/jenkins_home:z -t
jenkins/jenkins
```

1.2 Jenkins is available on port 49001 (port 8080 is occupied by Tomcat on my PC).



- 1.3 Admin password in ~JENKINS HOME/jenkins/secrets/initialAdminPassword
- 1.4 Configure Admin profile

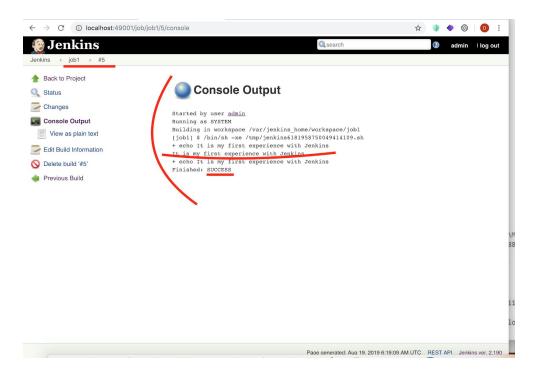


2. Create job in Jenkins

2.1 Build >> Execute shell:

```
echo "It is my first experience with Jenkins"
echo "It is my first experience with Jenkins" >> ./result.log
```

Result.log file is placed to ~JENKINS HOME/jenkins/workspace/job1



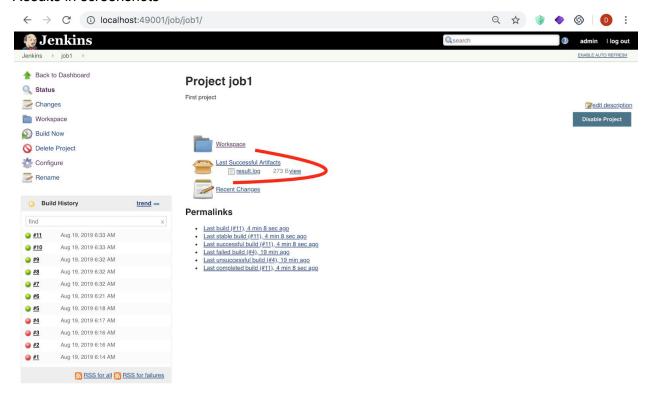
2.4 Add one more step to build section:

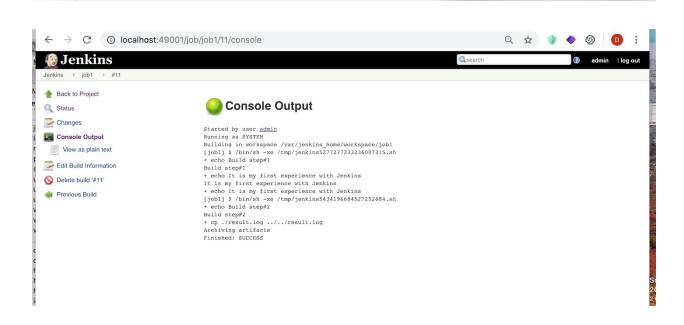
```
echo "Build step#2"
cp ./result.log ../../result.log
```

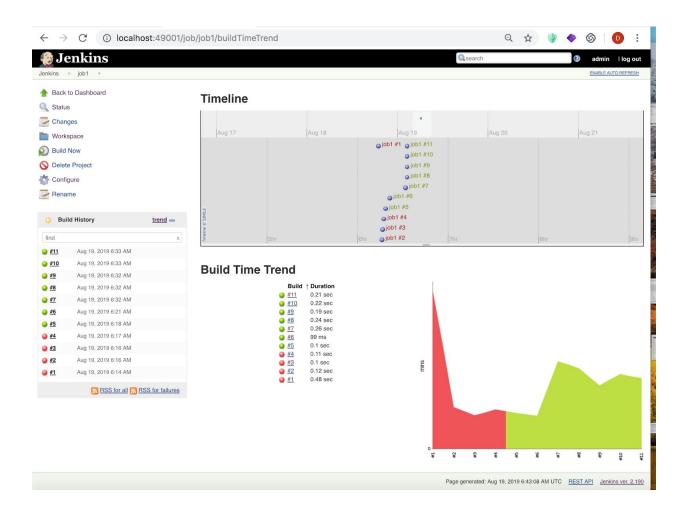
Add post-build action



Results in screenshots

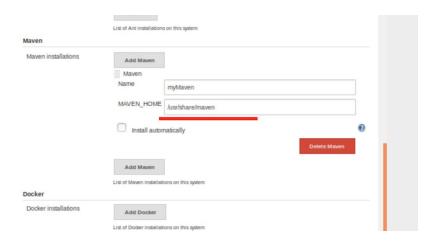






- 3. Maven
- 3.1. Configure Maven in Jenkins

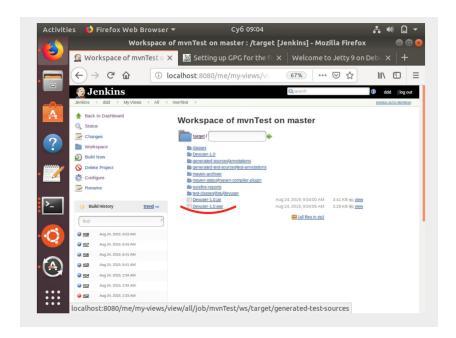


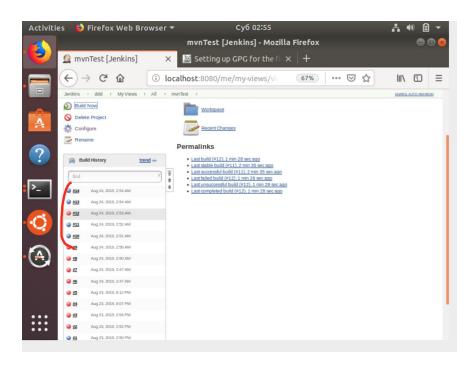


3.2 Create build I used Maven project

https://github.com/dennis00010011b/simpleweb

lused target clean install compile war:war



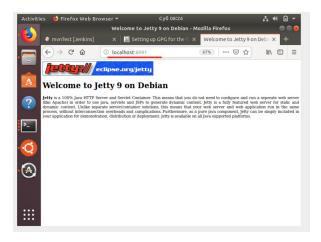


3.3 Deploy project with Jetty

3.3.1 Install Jetty

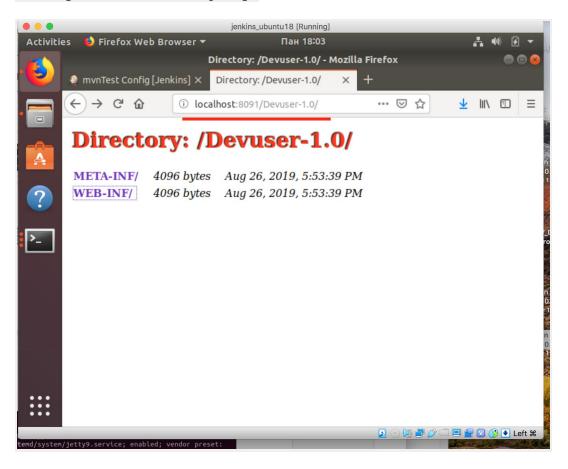
sudo apt install jetty9





3.3.2 Add build-action Shell to Jenkins job:

sudo cp -rf home/dennis/.jenkins/workspace/mvnTest/target/Devuser-1.0.war
/usr/share/jetty9/webapps
java -jar /usr/share/jetty9/start.jar
sudo systemctl restart jetty9

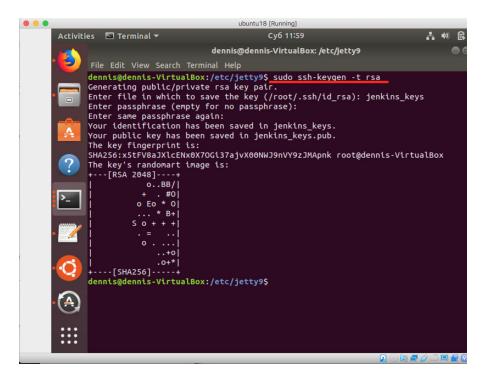


4. Master and slave nodes in Jenkins

- 4.1 Install SSH plugin
- 4.2 Generate SSH keys, file name j2

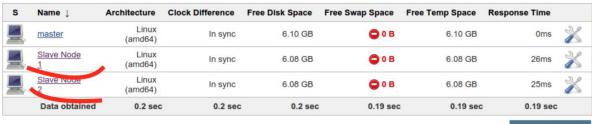
https://www.hostinger.com/tutorials/ssh/how-to-set-up-ssh-keys

ssh-keygen -t rsa



Copy ssh public keys to each slave node with command:

ssh-copy-id -f -i j2.pub root@192.168.100.22 ssh-copy-id -f -i j2.pub root@192.168.100.23

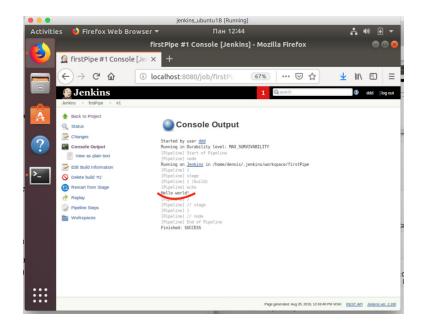


Refresh status

5 Jenkins+pipeline

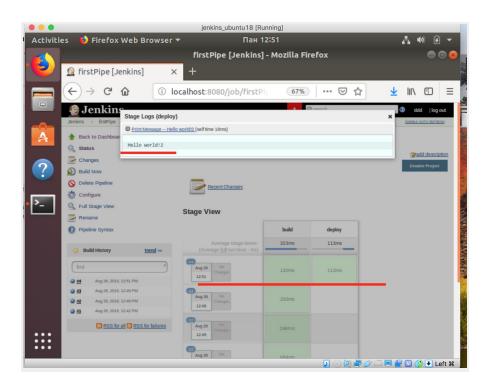
5.1 Simple pipeline

```
pipeline {
    agent { label 'master' }
    stages {
        stage('build') {
            steps { echo "Hello World!" }
        }
    }
}
```



5.2 Add one more stage

```
pipeline {
    agent { label 'master' }
    stages {
        stage('build') {
            steps { echo "Hello World!" }
        }
        stage('deploy') {
            steps { echo "Hello World2!" }
        }
    }
}
```

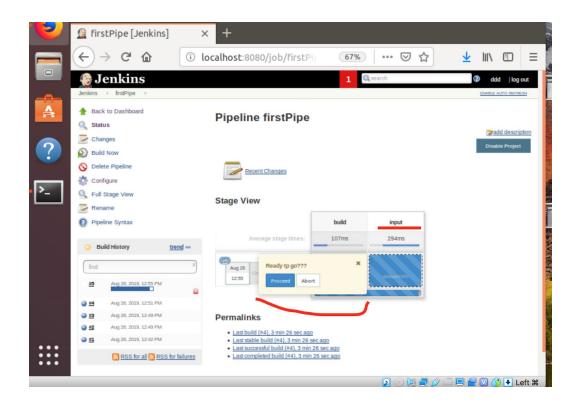


5.3 Add one more stage

```
pipeline {
    agent { label 'master' }
    stages {
        stage('build') {
            steps { echo "Hello World!" }
        }

        stage('input') {
            steps { input "Ready to go??" }

        stage('deploy') {
            steps { echo "Hello World2!" }
        }
    }
}
```



Blueocean has failed to start!