# DEVOPS TUTORIAL: AUTOMATING WEB APPLICATION USING JENKINS, DOCKER AND GITHUB.

In RHEL 8 We will create the testing environment and the production by the help of docker technology.

## **Setting the environment**

Base-OS is RHEL 8 (We will install Docker-CE in RHEL 8 and also we will install Jenkins in same machine)

In Base OS make sure that your selinux is on of off (Enabled / Permissive)

We can check selinux status by sestatus command .If it is in enabled run setenfoce 0 for disabling)

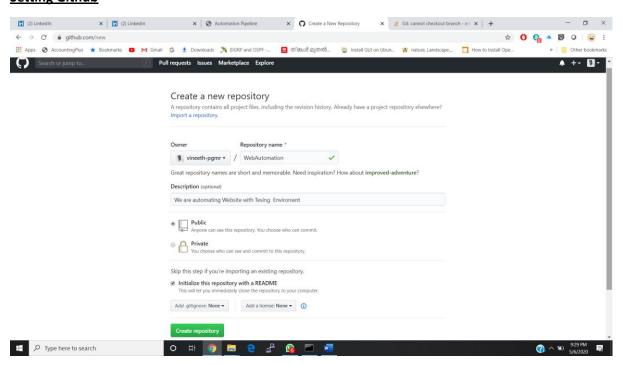
Also check status of firewall ,By using systemctl firewalld command ,if it is on you can disable using (systemctl disable firewalld )command

Testing Environment is creating by the help of docker

Production Environment is also creating in Docker

We are installing Jenkins in the base system and installing git plugin & creation jobs according to our requirements.

### **Setting Github**



Setting The Developing Environment

#### Cloning the content from GitHub

```
Vineeth Pokkavayalil@DESKTOP-0FF9USV MINGW64 /h/WorkSpace/WebAutomation (master)
$ git branch
   dev1
   dev2
* master

Vineeth Pokkavayalil@DESKTOP-0FF9USV MINGW64 /h/WorkSpace/WebAutomation (master)
```

#### Branches Present in Git

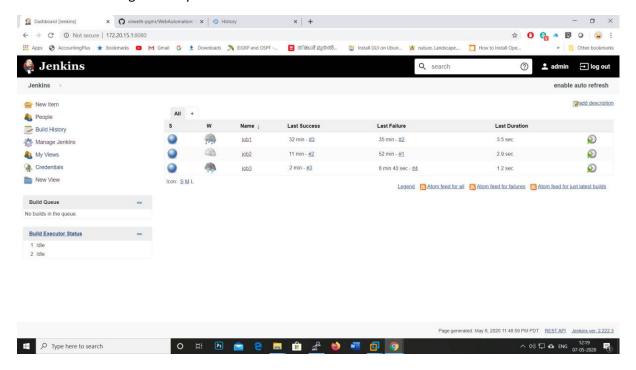
```
Vineeth Pokkavayalil@DESKTOP-0FF9USV MINGW64 /h/WorkSpace/WebAutomation (master)

$ git log --oneline_
aa54691 (HEAD -> master, origin/master, origin/HEAD) 10th by master
4b5b43c 9th by master
4cd07da 8th commit by master
e3db9e8 (origin/dev2, origin/dev1, dev2, dev1) 7th commit by (dev1)
95ae1d7 third commit (dev1)
9ca14e6 second commit (dev1)
71b0093 first commit(dev1)
dcef0cb Third commit
57cb836 Second commit
093d3aa first commit
8dbe0c8 Initial commit

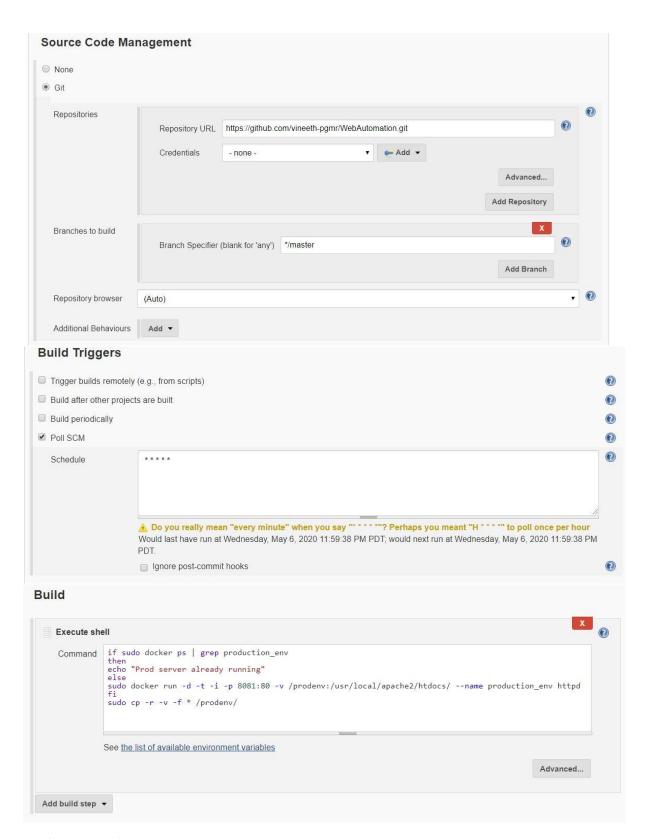
Vineeth Pokkavayalil@DESKTOP-0FF9USV MINGW64 /h/WorkSpace/WebAutomation (master)
$
```

Git Log

# All Jobs are working Perfectly



Configuration Part of job1



Configuration of Job2



Configuration of Job 3

