1] Jenkins Distributed Architecture.

Jenkins   M   Java Same (1.8)

                         S   SSH

2] Web hoo K.

3] Docker

Jenkins
CI/CD

Jenkins   jenkins

m   S1

                                              → Lock

                    Lock

              SSH Key
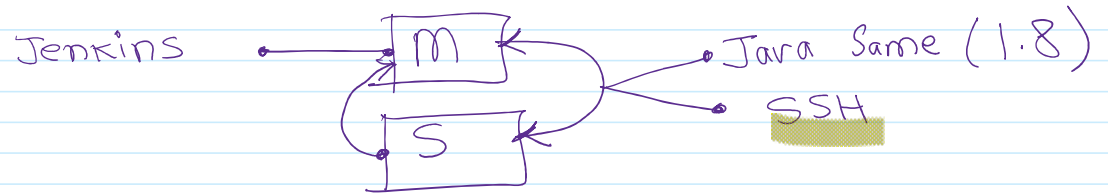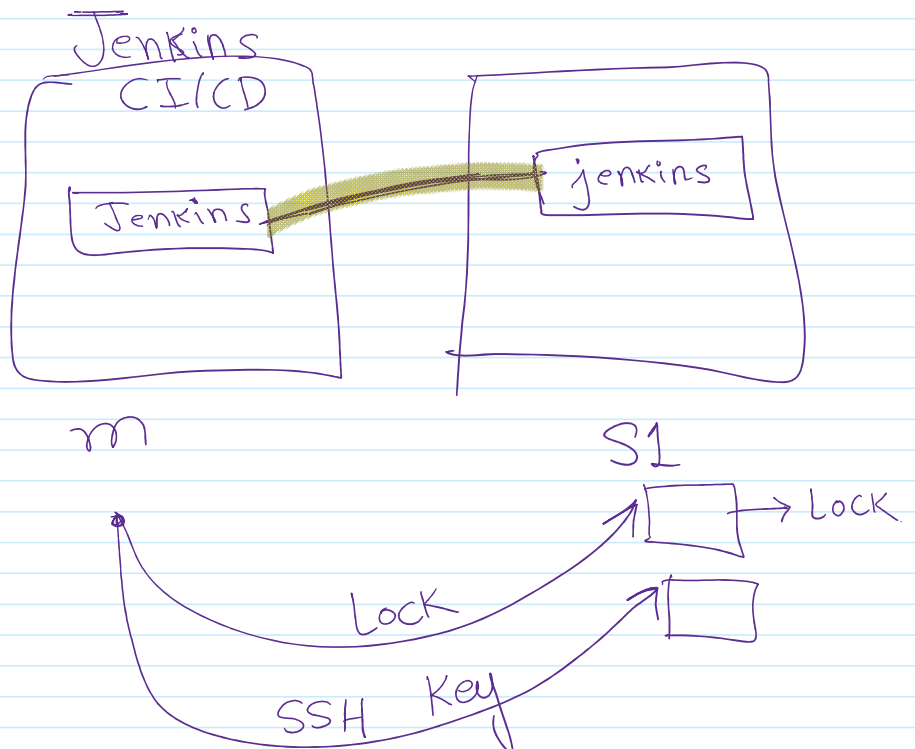
Type	Public IP	Private IP
master	65.1.92.225	172.31.8.142
slave1	13.126.223.226	172.31.13.247

MASTER MACHINE
==============
```
$ sudo su -
# apt update
# apt install openjdk-11-jdk -y
# java -version
# javac -version

# curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null


# echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null


# apt update


# apt install jenkins

# systemctl status jenkins

# systemctl start jenkins

# systemctl enable jenkins
```

SLAVE1 MACHINE
==============
```
$ sudo su -
# apt update
# apt install openjdk-11-jdk -y
# java -version
# javac -version
# useradd -m -s /bin/bash jenkins
# passwd jenkins
# su - jenkins
$ ssh localhost
$ cd .ssh
$ cat >> authorized_keys
      Upload id_rsa.pub from master to slave( jenkins user ~/.ssh/authorized_keys)

$ exit
# nano /etc/hosts
172.31.8.142            master
172.31.13.247   slave1


# su - jenkins

$ cd .ssh
```

```
$ ssh -i id_rsa jenkins@slave1

$ cat > config
Host *
        User jenkins
        IdentityFile /var/lib/jenkins/.ssh/id_rsa
```
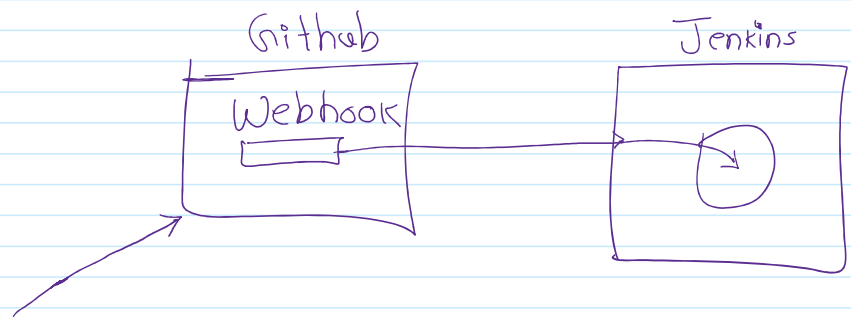
UI Steps
    Master --> Slave

1] Master - Slave

2] Webhook

3] Pull SCM (Scheduled Build)