47.05Jun.Revisions & QnA

Monday, June 5, 2023 7:19 PM

1] K8S — Declarative / Imper—

2] Docker
- nginx
- MySQL

} communication (service) — Docker Network
- Sharing data 2 Containers

3] Minikube + Aws + Cluster

* 4] Jenkins Master & Slave. → (1)

5] Pull SCM & Web Hook.

6] Maven (Report,

7] OOP & Tomcat.

8] Docker Swarm.

9] Docker Application.

10] Selenium Revision (Task)

11] Docker & K8S (Practical's)

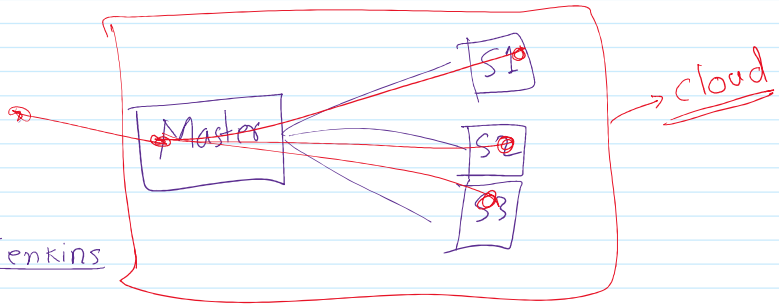
12] Ansible Role. & Galaxy.

13] Integration with

Aws + Ans + Docker + K8S + Jenkins + Maven + ... Github

14] Inventory in Ansible

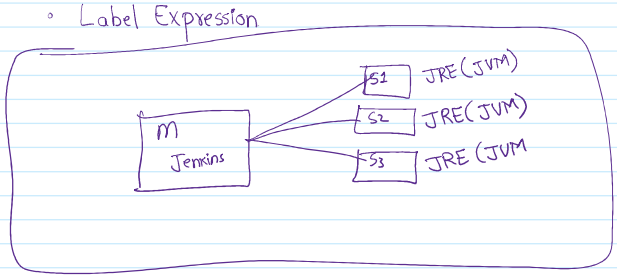
15] Spring Boot Application Structure.

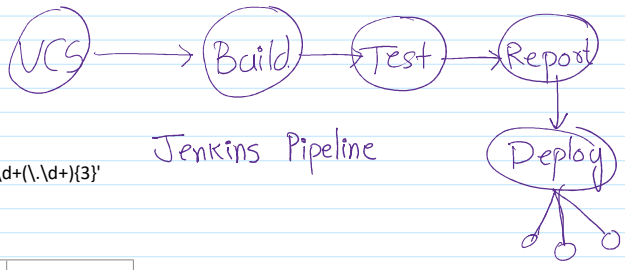


Distributed Jenkins

- Manage.
- To balance the workLoad.
- Segregation of work Load.
- Micro Service

- Segregation of Work Load.
- Micro Service.
- Enterprise CI
- Label Expression





Jenkins Pipeline

```
# ip -4 addr show eth0 | grep -oP '(?<=inet\s)\d+(\.\d+){3}'

# curl ifconfig.me
```

Type	Public IP	Private IP
Master	3.82.36.184	172.31.20.6
Slave1	54.162.101.149	172.31.82.252

```
$ sudo su -

# apt update && apt install openjdk-11-jdk -y

# 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 -y

# systemctl status jenkins

# systemctl enable jenkins

# cat<<EOF >> /etc/hosts

## Master slave architecture in Jenkins

3.82.36.184        master
54.162.101.149     slave1

EOF

# ssh-keygen -b 3072 -t rsa -f ~/.ssh/nubeera_lock_key -q -N ""
# cd ~/.ssh
# mv nubeera_lock_key nubeera_key && mv nubeera_lock_key.pub nubeera_lock.pub
# chmod 400 nubeera_key
# cat ~/.ssh/nubeera_lock.pub | cat >> ~/.ssh/authorized_keys

# cat ~/.ssh/authorized_keys
```

1] AWS Account
2] Region
3] VPC

ping pvtIP

Slave1
sudo su
hostname slave1

cat<<EOF >> /etc/hosts
Master slave architecture in Jenkins
3.82.36.184 master
54.162.101.149 slave1
EOF

apt update && apt install openjdk-11-jdk -y

useradd -m -s /bin/bash jenkins

cat >> authorized_keys

ssh HostKey

cat /etc/default/jenkins

HTTP_PORT=8080

service jenkins restart

Manage Jenkins --> Configure System --> Jenkins URL - 8080

# cat /etc/sysconfig/jenkins
JENKINS_PORT=8080

set JENKINS_HOME=ADDRESS
java -jar jenkins.war --httpPort=8080