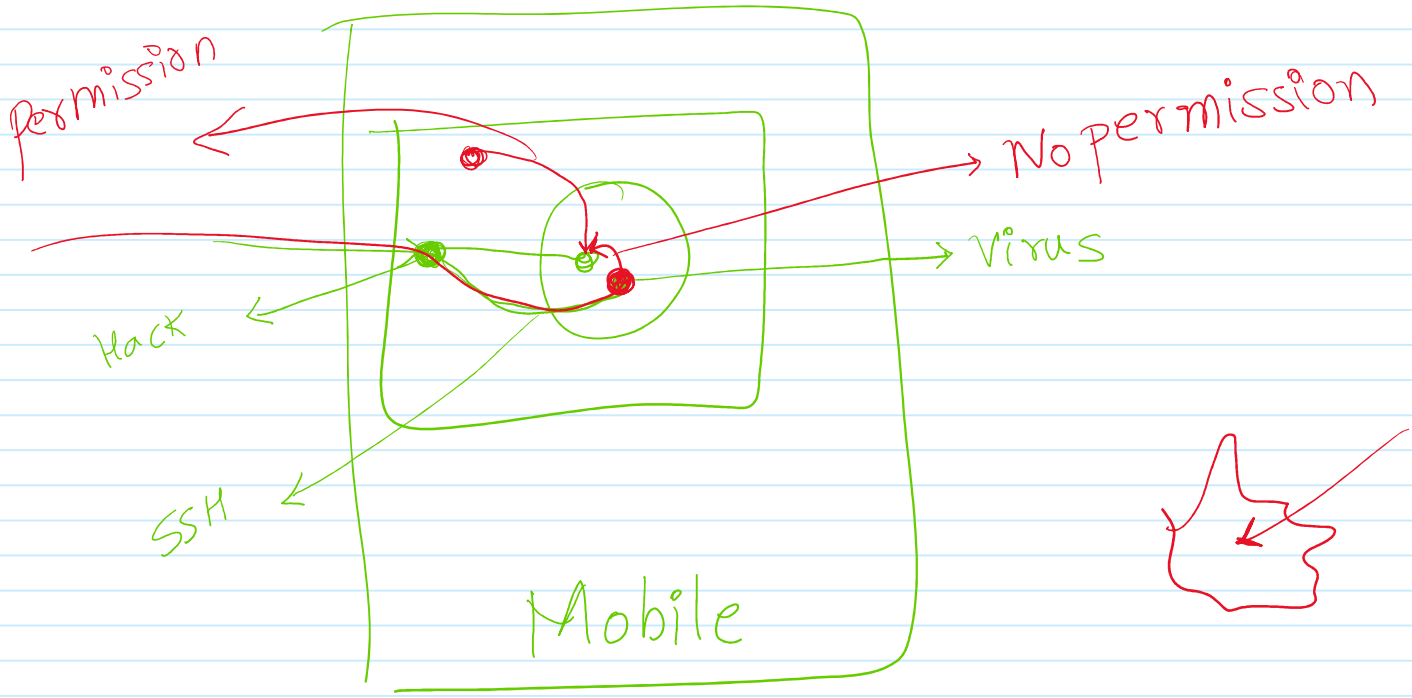
33.10May.Adv. Cluster Preparation

10 May 2023 07:03 PM



Memory Card 256GB = 5000(3.0) --> 100(1/2.0) 4GB

Linux (Ubuntu, Kali, MacOS)

Open Source = MD5 , Checksum, GPG Key, SHA
Official Website

facebook.com ---> My --> FB = XARG/Forward

https://Amzon.com

Metasploit

DevSecOps

Docker + Jenkins

Jenkins Cluster
Multiple Nodes(EC2 Instances)
a. Master
b. Slave

S1 master 13.127.212.148 172.31.7.172
S2 slave 3.110.217.74 172.31.0.63

1. Order Ubuntu instance for Jenkins-Master
2. .ssh> ssh -i mujahed.pem ubuntu@PublicIPMaster
3. $ sudo su
4. # apt update
5. # hostname master
6. # bash
7. # apt install openjdk-11-jdk -y
8. # java -version
9. # curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
10. # 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
11. # sudo apt-get update
12. # sudo apt-get install -y jenkins
13. # systemctl status jenkins
14. Check in browser: **http://**PublicIP/
15. # cat /var/lib/jenkins/secrets/init
16. UserName: master
17. Password: 123
18. .ssh> scp -i mujahed.pem mujahed.pem ubuntu@13.127.212.148:/home/ubuntu/
19. # cp mujahed.pem /var/lib/jenkins/.ssh/

Jenkins Slave:

1. Order Instance with Same Configurations(SG, Key, Region, Slave1)
2. .ssh> ssh -i mujahed.pem ubuntu@PublicIPSlave1
3. $ sudo su
4. # apt update
5. # hostname slave1
6. # bash
7. # apt install openjdk-11-jdk -y
8. # java -version
9. # javac -version

Cluster Preparation

1. Jenkins
2. Ansible
3. Docker Client Server
4. Linux Cluster
5. Kubernetes

1. Order 2 server(m,s)
2. Connect to m --> ssh localhost (.ssh created)
3. scp mujahed.pem --> m
4. Create /home/ubuntu/.ssh/**config** file
   Host *
   User ubuntu
   IdentityFile /home/ubuntu/.ssh/mujahed.pem
5. $ ssh IP
6. Configure local DNS (/etc/hosts)

FQDN
IPAddress Master
IPAddress slave1
IPAddress Slave2
IPAddress Slave3

7. $ ping Master
8. $ ssh slave1

Scheduled Build - Pull SCM/ CORN Job

1. Jenkins Master Slave
2. Pushing Docker Image

S1 master 13.127.212.148 172.31.7.172
S2 slave 3.110.217.74 172.31.0.63

nano /etc/hosts
172.31.7.172 master
172.31.0.63 slave1

3.109.216.169 m
3.109.139.97 s

sudo nano /etc/hosts
172.31.39.108 m
172.31.36.132 s

cat /home/ubuntu/.ssh/config
Host *
User ubuntu
IdentityFile /home/ubuntu/.ssh/mujahed.pem