JENKINS CI PIPELINE

Watch Jenkins PART1 HANDSON Setup/Troubleshooting

https://www.youtube.com/watch?v=G0i6F52l5ag

PREREQUISITES

1) AWS LOGIN [UBUNTU OS]
2) DOCKER HUB LOGIN
3) GITHUB HUB LOGIN
**** COST WILL OCCUR IN AWS ACCOUNT***

STEP 1 – CREATE A ==T2.MICRO UBUNTU== EC2 INSTANCE IN AWS IN US-WEST-1 REGION

| ☑ | EKS DEMO | i-0350ae0c614e664f8 | ⊘ Running | ⊕ ⊖ | t2.medium | ⊘ 2/2 checks passed | No alarms | + | us-east-1a |

=

Instance: i-0350ae0c614e664f8 (EKS DEMO)

| Details | Security | Networking | Storage | Status checks | Monitoring | Tags |

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
⎘ i-0350ae0c614e664f8 (EKS DEMO)	⎘ 54.205.245.157 | open address ☐	⎘ 172.31.90.159
IPv6 address	**Instance state**	**Public IPv4 DNS**
–	⊘ Running	⎘ ec2-54-205-245-157.compute-1.amazonaws.co
		address ☐
Hostname type	**Private IP DNS name (IPv4 only)**	
IP name: ip-172-31-90-159.ec2.internal	⎘ ip-172-31-90-159.ec2.internal	
Answer private resource DNS name	**Instance type**	**Elastic IP addresses**
IPv4 (A)	t2.medium	–
Auto-assigned IP address	**VPC ID**	**AWS Compute Optimizer finding**
⎘ 54.205.245.157 [Public IP]	⎘ vpc-043660c894681970c ☐	ⓘ Opt-in to AWS Compute Optimizer for recommen

STEP2 - Install and Setup Jenkins with Java

sudo apt update -y

sudo apt install openjdk-17-jre -y

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

echo deb [trusted=yes] https://pkg.jenkins.io/debian binary/

sudo apt-get update

sudo apt-get install jenkins -y

sudo systemctl start jenkins

sudo systemctl status jenkins

```
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
     Active: active (running) since Fri 2023-04-14 03:46:07 UTC; 2s ago
   Main PID: 5097 (java)
      Tasks: 45 (limit: 4686)
     Memory: 1.2G
        CPU: 48.572s
     CGroup: /system.slice/jenkins.service
```

Step 3: Setup Jenkins

- Now go to AWS dashboard -> EC2 -> Instances(running)and click on Jenkins-EC2
- Copy Public IPv4 address.
- Change the SG to open for Jenkins.

- Alright now we know the public IP address of the EC2 machine, so now we can access Jenkins from

the browser using the public IP address followed by port 8080.
- Copy the below key and paste it on JENKINS

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a p the log (**not sure where to find it?**) and this file on the server:
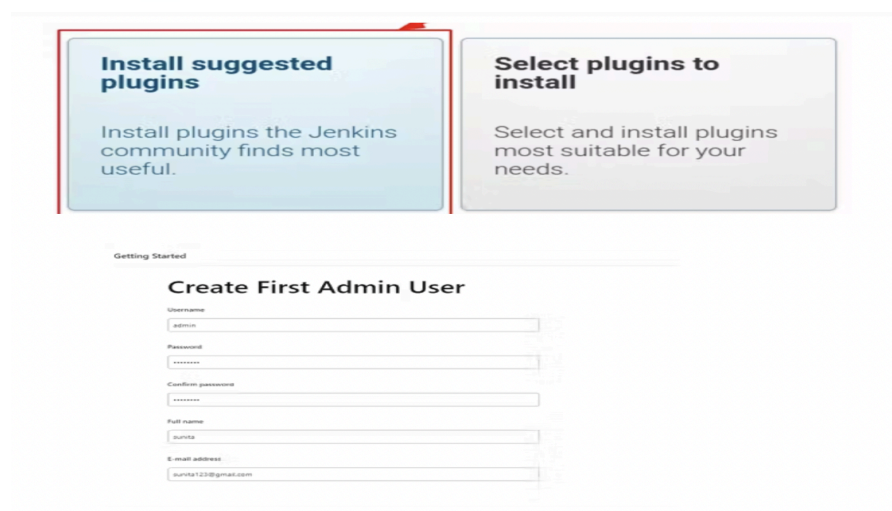
`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it b

Administrator password

..............................|

– After completing the installation of the suggested plugin you need to set the *First Admin User* for Jenkins.

PART 2 - TO BE CONTINUED ON SUNDAY 🙂