

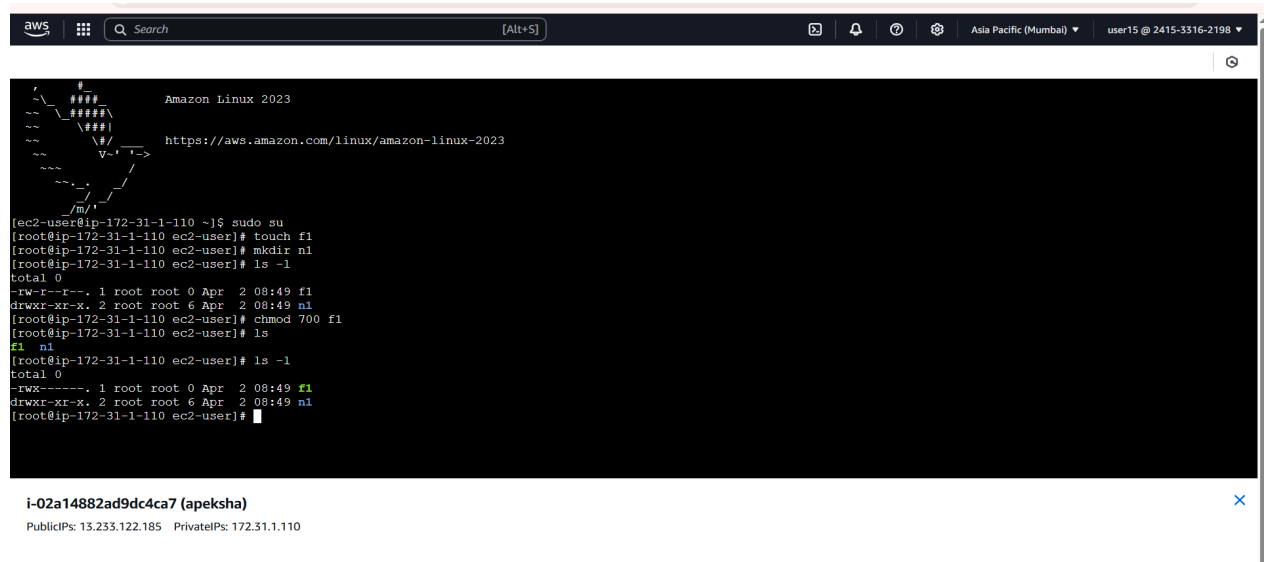
Day-5:

To get a login page for jenkins:

Step 1: Launch EC2 Instances

1. **Login to AWS Console**
2. Go to **EC2** → **Instances** → **Launch Instances**
3. Create **2 instances**:
 - 1 as **Master Node**
 - 1 more as **Worker Node**
4. Select Amazon Machine Image as **AMI**
5. Choose **t2.medium** or higher
6. Open ports in **Security Group**:
 - SSH
 - HTTP
 - HTTPS

7. Launch both instances and create the cluster in the same way then by selecting those connect it. After connection give the below image command:



```
aws [Alt+S] user15 @ 2415-3316-2198
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-1-110 ~]$ sudo su
[root@ip-172-31-1-110 ec2-user]# touch f1
[root@ip-172-31-1-110 ec2-user]# mkdir n1
[root@ip-172-31-1-110 ec2-user]# ls -l
total 0
-rw-r--r--. 1 root root 0 Apr  2 08:49 f1
drwxr-xr-x. 2 root root 6 Apr  2 08:49 n1
[root@ip-172-31-1-110 ec2-user]# chmod 700 f1
[root@ip-172-31-1-110 ec2-user]# ls
f1  n1
[root@ip-172-31-1-110 ec2-user]# ls -l
total 0
-rwx-----. 1 root root 0 Apr  2 08:49 f1
drwxr-xr-x. 2 root root 6 Apr  2 08:49 n1
[root@ip-172-31-1-110 ec2-user]#
```

i-02a14882ad9dc4ca7 (apeksha)
PublicIPs: 13.233.122.185 PrivateIPs: 172.31.1.110

```
aws [Search] [Alt+S] Asia Pacific (Mumbai) user2 @ 2415-3316-2198

Default output format [text]:
[ec2-user@ip-172-31-3-17 ~]$ aws eks update-kubeconfig --name cluster-1 --region ap-south-1

An error occurred (ResourceNotFoundException) when calling the DescribeCluster operation: No cluster found for name: cluster-1.
[ec2-user@ip-172-31-3-17 ~]$ aws eks update-kubeconfig --name apeksha-cluster --region ap-south-1
Added new context arn:aws:eks:ap-south-1:241533162198:cluster/apeksha-cluster to /home/ec2-user/.kube/config
[ec2-user@ip-172-31-3-17 ~]$ get node
-bash: get: command not found
[ec2-user@ip-172-31-3-17 ~]$ get nodes
-bash: get: command not found
[ec2-user@ip-172-31-3-17 ~]$ kubectl get node
NAME                                STATUS    ROLES    AGE   VERSION
i-033e8b9823e3513ad Ready    <none>    61m   v1.31.6-eks-aad632c
i-0e925df3592032552 Ready    <none>    61m   v1.31.6-eks-aad632c
[ec2-user@ip-172-31-3-17 ~]$ kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
i-033e8b9823e3513ad Ready    <none>    61m   v1.31.6-eks-aad632c
i-0e925df3592032552 Ready    <none>    61m   v1.31.6-eks-aad632c
[ec2-user@ip-172-31-3-17 ~]$ history
 1 sudo su
 2 aws configure
 3 aws eks update-kubeconfig --name cluster-1 --region ap-south-1
 4 aws eks update-kubeconfig --name apeksha-cluster --region ap-south-1
 5 get node
 6 get nodes
 7 kubectl get node
 8 kubectl get nodes
 9 history
[ec2-user@ip-172-31-3-17 ~]$
```

i-05ee4070807947495 (apeksha)

PublicIPs: 13.203.202.3 PrivateIPs: 172.31.3.17

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Step 2: Commands

sudo su → To get into Ec2 root
aws configure → for the aws configuration.

aws eks update-kubeconfig --name cluster-1 --region ap-south-1 → To update kubernetes region

Aws eks update-kubeconfig --name cluster-2 --region ap-south-1

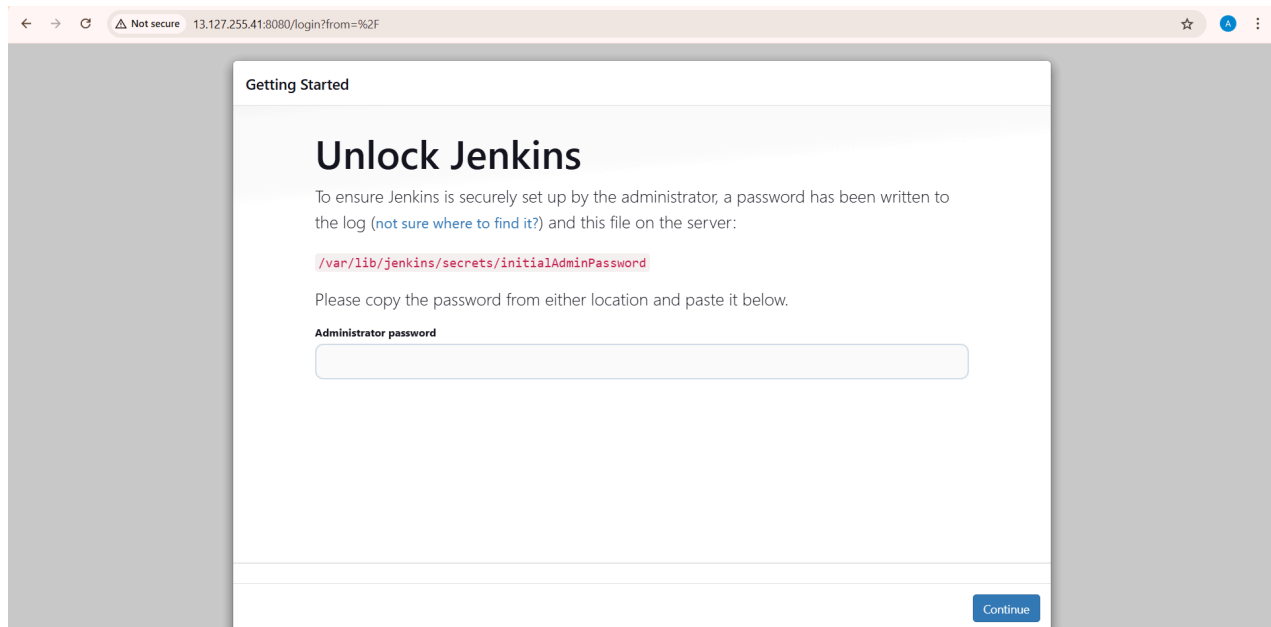
get node

get nodes

Kubectl get node

Kubectl get nodes

After getting the output with those image commands then paste that public ip address with in web and we should get the image as below:



- Step 3:**
1. EC2 Master Node: will run Jenkins and manage the Kubernete cluster.
 2. EC2 Worker Nodes: will run Jenkins jobs or Kubernetes workloads.