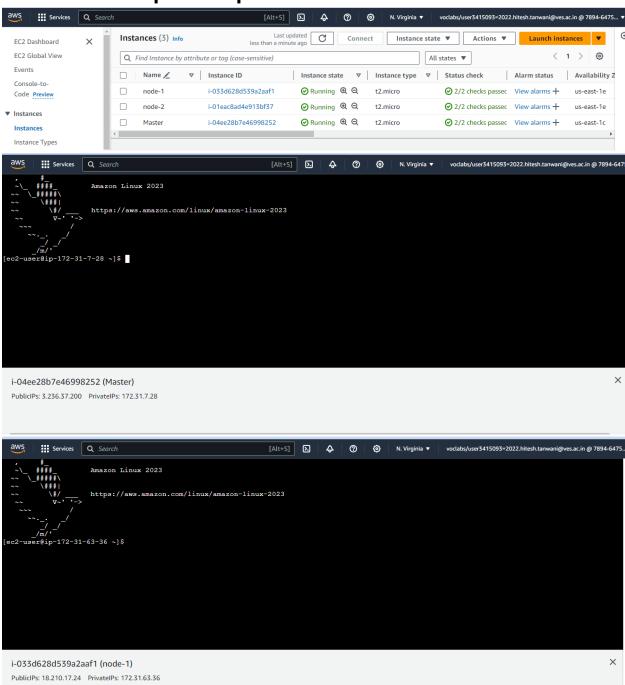
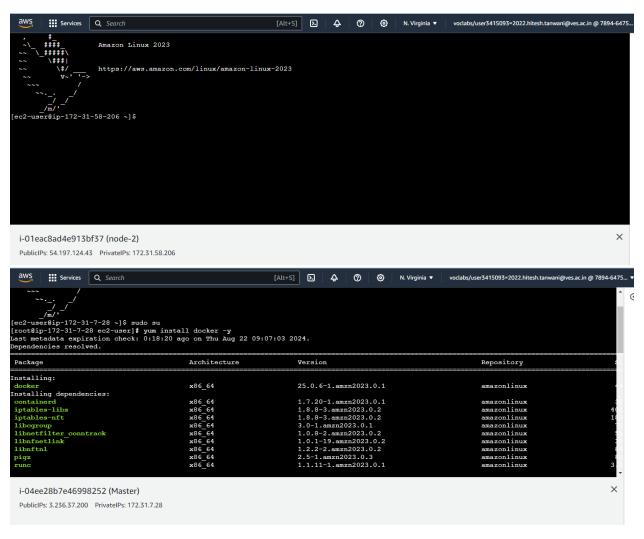
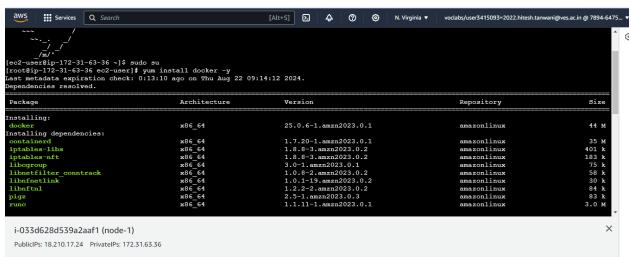
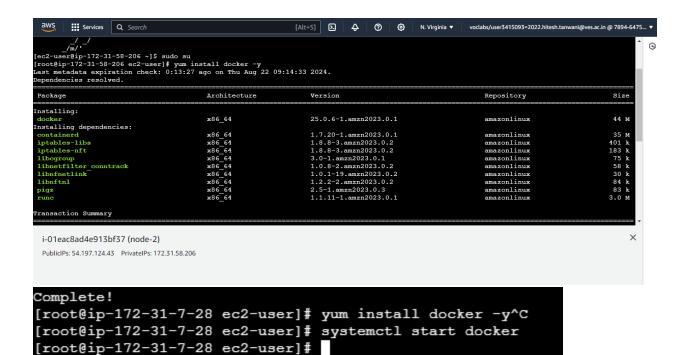
# Adv Devops exp 3









## i-04ee28b7e46998252 (Master)

PublicIPs: 3.236.37.200 PrivateIPs: 172.31.7.28

```
Complete!

[root@ip-172-31-63-36 ec2-user] # syaytemctl start docker
bash: syaytemctl: command not found

[root@ip-172-31-63-36 ec2-user] #

i-033d628d539a2aaf1 (node-1)

PublicIPs: 18.210.17.24 PrivateIPs: 172.31.63.36

Complete!

[root@ip-172-31-58-206 ec2-user] # syatemctl start docker
bash: syatemctl: command not found

[root@ip-172-31-58-206 ec2-user] #
```

i-01eac8ad4e913bf37 (node-2)

PublicIPs: 54.197.124.43 PrivateIPs: 172.31.58.206

```
sudo setenforce 0
sudo sed -i 's/^SELINUX=enforcing$/SELINUX=permissive/'
/etc/selinux/config
cat <<EOF | sudo tee /etc/yum.repos.d/kubernetes.repo</pre>
[kubernetes]
name=Kubernetes
baseurl=https://pkgs.k8s.io/core:/stable:/v1.31/rpm/
enabled=1
gpgcheck=1
gpgkey=https://pkgs.k8s.io/core:/stable:/v1.31/rpm/repodata/repomd.xml.key
exclude=kubelet kubeadm kubectl cri-tools kubernetes-cni
EOF
sudo yum install -y kubelet kubeadm kubectl --disableexcludes=kubernetes
sudo systemctl enable --now kubelet
eat <<EOF | sudo tee /etc/yum.repos.d/kubernetes.repo
[kubernetes]
name=Kubernetes
baseurl=https://pkgs.k8s.io/core:/stable:/v1.31/rpm/
enabled=1
gpgcheck=1
gpgkey=https://pkgs.k8s.io/core:/stable:/v1.31/rpm/repodata/repomd.xml.key
sudo systemctl enable --now kubelet kubectl --disableexcludes=kubernetes
[kubernetes]
name=Kubernetes
paseurl=https://pkgs.k8s.io/core:/stable:/v1.31/rpm/
 i-04ee28b7e46998252 (Master)
 PublicIPs: 3.236.37.200 PrivateIPs: 172.31.7.28
```

#### gpgkey=https://pkgs.k8s.io/core:/stable:/v1.31/rpm/repodata/repomd.xml.key exclude=kubelet kubeadm kubectl cri-tools kubernetes-cni 30 kB/s | 6.5 kB 00:00 Kubernetes Dependencies resolved. Package Architecture Version Repository Installing: x86 64 1.31.0-150500.1.1 11 M kubeadm kubernetes kubectl 1.31.0-150500.1.1 kubernetes 11 M x86\_64 1.31.0-150500.1.1 15 M kubernetes Installing dependencies: x86\_64 x86\_64 conntrack-tools 1.4.6-2.amzn2023.0.2 amazonlinux 208 k 6.9 M 7.1 M cri-tools 1.31.1-150500.1.1 kubernetes 1.5.0-150500.2.1 kubernetes-cni x86\_64 x86\_64 kubernetes 24 k libnetfilter cthelper 1.0.0-21.amzn2023.0.2 amazonlinux amazonlinux libnetfilter cttimeout 1.0.0-19.amzn2023.0.2 1.0.5-2.amzn2023.0.2 libnetfilter queue amazonlinux

i-04ee28b7e46998252 (Master)

PublicIPs: 3.236.37.200 PrivateIPs: 172.31.7.28

Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /usr/lib/systemd/system/kubelet.service. [root@ip-172-31-7-28 ec2-user]# yum repolist

repo id

amazonlinux

kernel-livepatch

kubernetes

[root@ip-172-31-7-28 ec2-user]#

repo name

Amazon Linux 2023 repository

Amazon Linux 2023 Kernel Livepatch repository

Kubernetes

#### i-04ee28b7e46998252 (Master)

PublicIPs: 3.236.37.200 PrivateIPs: 172.31.7.28

```
10822 10:05:53.333349 32221 version.go:195] the value of KubeletConfiguration.cgroupDriver is empty; setting it to "systet 10822 10:05:53.333349 32221 version.go:192] fetching Kubernetes version from URL: https://dl.kbs.io/release/stable-1.txt 10822 10:05:53.571997 32221 certs.go:473] validating certificate period for CA certificate [init] Using Kubernetes version: v1.31.0
[preflight] Running pre-flight checks
[10822 10:05:53.587118 32221 checks.go:561] validating Kubernetes and kubeadm version
[10822 10:05:53.587282 32221 checks.go:166] validating if the firewall is enabled and active
[10822 10:05:53.617575 32221 checks.go:201] validating availability of port 6443
```

mkdir -p \$HOME/.kube

```
mkdir -p $HOME/.kube
```

sudo cp -i /etc/kubernetes/admin.conf \$HOME/.kube/config sudo chown \$(id -u):\$(id -g) \$HOME/.kube/config

```
[root@ip-172-31-7-28 ec2-user]# mkdir -p $HOME/.kube
 sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
 sudo chown $(id -u):$(id -g) $HOME/.kube/config
```

```
[ec2-user@ip-172-31-58-206 ~]$ sudo kubeadm join <ip> --token <token> \
--discovery-token-ca-cert-hash <hash>
-bash: syntax error near unexpected token `newline'

[ec2-user@ip-172-31-58-206 ~]$
```

### i-01eac8ad4e913bf37 (node-2)

PublicIPs: 54.197.124.43 PrivateIPs: 172.31.58.206

```
[root@ip-172-31-63-36 ec2-user]# sudo kubeadm join <ip>:<port> \
--token <token> \
--discovery-token-ca-cert-hash <hash>
bash: syntax error near unexpected token `newline'
[root@ip-172-31-63-36 ec2-user]#
```

## i-033d628d539a2aaf1 (node-1)

PublicIPs: 18.210.17.24 PrivateIPs: 172.31.63.36

```
[root@ip-172-31-7-28 ec2-user]# kubectl get nodes
                             STATUS
                                       ROLES
                                                       AGE
                                                             VERSION
ip-172-31-7-28.ec2.internal NotReady
                                       control-plane
                                                       14m
                                                             v1.31.0
[root@ip-172-31-7-28 ec2-user]# kubectl get nodes
NAME
                             STATUS
                                       ROLES
                                                       AGE
                                                             VERSION
ip-172-31-7-28.ec2.internal
                             NotReady
                                        control-plane
                                                       15m
                                                             v1.31.0
[root@ip-172-31-7-28 ec2-user]#
```

#### i-04ee28b7e46998252 (Master)

PublicIPs: 3.236.37.200 PrivateIPs: 172.31.7.28

```
oot@ip-172-31-92-66:/home/ubuntu# curl -k https://172.31.92.66:6443
                    "kind": "Status",
               "kind": "Status",
"apiVersion": "v1",
"metadata": {},
"status": "Failure",
"message": "forbidden: User \"system:anonymous\" cannot get path \"/\"",
"reason": "Forbidden",
"reason": "{}
   }root@ip-172-31-92-66:/home/ubuntu#sudo ufw allow 6443/tcppsudo ufw reload
Rules updated
                         Active: active (running) since Fri 2024-10-11 11:46:52 UTC; 10min ago Docs: https://kubernetes.io/docs/
Main PID: 5529 (kubelet)
Tasks: 10 (limit: 4676)
Memory: 31.7M (peak: 33.1M)
CPU: 9.142s
CGDUD: (system elice (kubelet service)
                                          CGroup: /system.slice/kubelet.service L5529 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstr
Oct 11 11:56:48 ip-172-31-92-66 kubelet[5529]: E1011 11:56:48.547919
Oct 11 11:56:52 ip-172-31-92-66 kubelet[5529]: E1011 11:56:52.690831
Oct 11 11:56:57 ip-172-31-92-66 kubelet[5529]: E1011 11:56:57.691591
Oct 11 11:56:59 ip-172-31-92-66 kubelet[5529]: E1011 11:56:59.501636
Oct 11 11:56:59 ip-172-31-92-66 kubelet[5529]: E1011 11:56:59.501746
Oct 11 11:57:02 ip-172-31-92-66 kubelet[5529]: E1011 11:57:02.692854
Oct 11 11:57:10 ip-172-31-92-66 kubelet[5529]: E1011 11:57:07.694345
Oct 11 11:57:12 ip-172-31-92-66 kubelet[5529]: E1011 11:57:12.695210
Oct 11 11:57:14 ip-172-31-92-66 kubelet[5529]: E1011 11:57:14.496757
Oct 11 11:57:14 ip-172-31-92-66 kubelet[5529]: E1011 11:57:14.496872
root@ip-172-31-92-66:/home/ubuntu# sudo systemctl restart kubelet
root@ip-172-31-92-66:/home/ubuntu# kubectl get nodes
NAME

STATUS

ROLES

AGE VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5529 pod_wo>
5529 kubele>
5529 kubele>
5529 pod_wo>
5529 kubele>
5529 kubele>
5529 kubele>
5529 kubele>
5529 pod_wo>
      NAME
                                                                                                                                                    STATUS
                                                                                                                                                                                                                                            ROLES
                                                                                                                                                                                                                                                                                                                                                                                AGE
                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
      ip-172-31-81-74
                                                                                                                                                    NotReady
                                                                                                                                                                                                                                                                                                                                                                                  24s
                                                                                                                                                                                                                                                                                                                                                                                                                                 v1.31.1
                                                                                                                                                                                                                                             <none>
      ip-172-31-92-66
ip-172-31-93-58
                                                                                                                                                    NotReady
                                                                                                                                                                                                                                            control-plane
                                                                                                                                                                                                                                                                                                                                                                                    12m
                                                                                                                                                                                                                                                                                                                                                                                                                                  v1.31.1
                                                                                                                                                                                                                                                                                                                                                                                    26s
                                                                                                                                                    NotReady
                                                                                                                                                                                                                                              <none>
           oot@ip-172-31-92-66:/home/ubuntu#
                                                                                                                                                                                                                                                                                                                                                                                                                  xrfebl9xq7el
xrfebl9xq7el
fcafdcsd5512756182911057613fc05cb3c7b5
fcafdcsd5512756182911057613fc05cb3c7b5
preflight] kunning pre-flight checks
preflight] kunning pre-flight checks
preflight] keading configuration from the cluster...
preflight] Fix! You can look at this config file with 'kubectl -n kube-system get c
kubeadm-config -o yaml'
kubelet-start] writing kubelet configuration to file "/var/lib/kubelet/config.yaml"
kubelet-start] writing kubelet environment file with flags to file "/var/lib/kubele
kubeadm-flags.env"
kubeadm-flags.env"
kubelet-check] waiting for a healthy kubelet at http://127.0.0.1:10248/healthz. Thi
can take up to 4m0s
kubelet-check] The kubelet is healthy after 502.317008ms
kubelet-start] waiting for the kubelet to perform the TLS Bootstrap
                                                                                                                                                                                                                                                                                                                                                                                                               This node has joined the cluster:
*Certificate signing request was sent to apiserver and a response was received.
*The kubelst was informed of the new secure connection details.
            | Note | Part | 
                                                                                                                                                                                                                                                                                                                                                                                                                  un 'kubectl get nodes' on the control-plane to see this node join the cluster.
                                                                                                                                                                                                                                                                                                                                                                                                                  oot@ip-172-31-93-58:/home/ubuntu# |
                                                                                                                                                                                                                                                                                                                                                                                                              ★ Noticipy 1/2-31-81-74./home/ubuntu
★ Noticipy 1/2-31-
           DOUBLY 2-30-92 [15] So.8.0.2010Ja-ams Containers://i/.12
DOUBLY 2-30-92-56:/home/ubuntu# kubectl label node ip-172-31-92-66 kubernetes.io/
Describencies of ip-172-31-93-58 kubernetes.io/role=Nodel
Describencies of ip-172-31-93-58 kubernetes.io/role=Nodel
Describencies of ip-172-31-93-58 labeled
Describencies of ip-172-31-93-58 labeled
Describencies of ip-172-31-93-58 labeled
Describencies of ip-172-31-93-66:/home/ubuntu# kubectl get nodes -o wide
Describencies of ip-172-31-93-66 Ready Node2
Describencies of ip-172-31-93-66:/home/ubuntu# kubectl get nodes -o wide
Describencies of 
                                                                                                                                                                                                                                                                                                                                                                                                                his node has joined the cluster:
Certificate signing request was sent to apiserver and a response was received.
The Kubelta was informed of the new secure connection details.
                                                                                                                                                                                                                                                                                                                                                                                                                   un 'kubectl get nodes' on the control-plane to see this node join the cluster.
```

root@ip-172-31-81-74:/home/ubuntu# |