

Experiment 3

Aim: To install Kubectl and execute Kubectl commands to manage the Kubernetes cluster and deploy Your First Kubernetes Application.

1)Creating a instance

▼

Instance type

Info | Get advice

Instance type

t2.medium

Family: t2 2 vCPU 4 GiB Memory Current generation: true
 On-Demand Linux base pricing: 0.0464 USD per Hour
 On-Demand RHEL base pricing: 0.0752 USD per Hour
 On-Demand Windows base pricing: 0.0644 USD per Hour
 On-Demand SUSE base pricing: 0.1464 USD per Hour

☐

All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

2) Summary

▼ Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...read more
ami-0182f373e66f89c85

Virtual server type (instance type)

t2.medium

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

3)master,computer1,computer2

```
          v
      #####             Amazon Linux 2023
    ~~~~\#####|
         \####|
           \|   https://aws.amazon.com/linux/amazon-linux-2023
            #v~->
              /
             /m\
[ec2-user@ip-172-31-28-157 ~]$
```

[illegible]

```

~# cat /etc/os-release
Amazon Linux 2023

~# curl -s https://aws.amazon.com/linux/amazon-linux-2023 | \
V-->

~#

ec2-user@ip-172-31-23-208 ~$
```

i-041bb34892373b3d7 (Computer1)
PublicIPs: 54.174.132.164 PrivateIPs: 172.31.28.157

i-Od3f7911e0aabcc35 (Master)
PublicIPs: 54.242.215.34 PrivateIPs: 172.31.22.81

i-09a31ba0572c10bdb (Computer2)
PublicIPs: 34.204.51.153 PrivateIPs: 172.31.23.208

4) Docker version

```
[root@ip-172-31-22-81 docker]# sudo systemctl enable docker
sudo systemctl daemon-reload
sudo systemctl restart docker
docker -v
Docker version 25.0.5, build 5dc9bcc
[root@ip-172-31-22-81 docker]#
```

5) kubectl get nodes

```
[root@ip-172-31-22-81 docker]# kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
ip-172-31-22-81.ec2.internal	Ready	control-plane	9m33s	v1.30.5
ip-172-31-28-157.ec2.internal	Ready	computer 1	7m24s	v1.30.5
ip-172-31-23-208.ec2.internal	Ready	computer 2	7m17s	v1.30.5