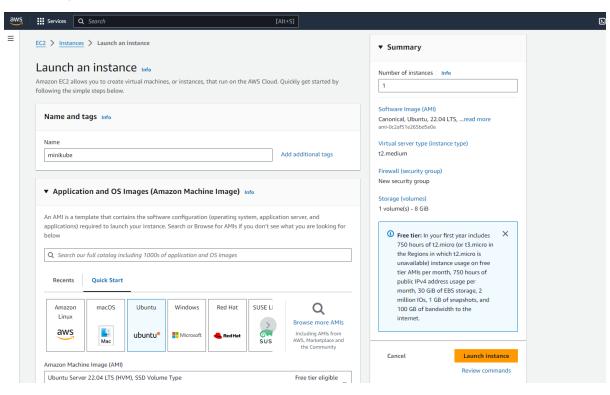
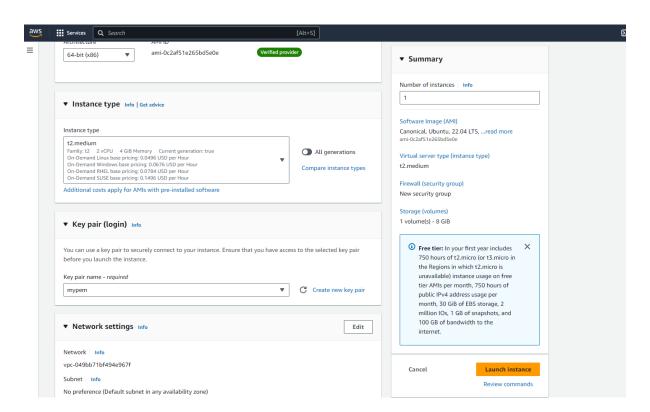
#### **TASK - 19**

# **Creating EC2 instance:**





### **Installing docker:**

```
Petched 32.8 MB in 5s (6477 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
19 packages can be upgraded. Run 'apt list --upgradable' to see them.
abuntu@ip-172-31-8-1:~$ sudo apt install docker.io
```

#### i-0991635f9d2675460 (minikube)

PublicIPs: 13.233.153.102 PrivateIPs: 172.31.8.1

```
reparing to unpack .../4-dna-root-data_2023112702-ubuntu0.22.04.1_ell.deb ...
Impacking dna-root-data_(2023112702-ubuntu0.22.04.1) ...
telecting previously unselected package dnamasq-base.
Teparing to unpack .../5-dnamasq-base 2.90-0ubuntu0.22.04.1) ...
telecting previously unselected package docker.io.
Tapacking dnamasq-base (2.90-0ubuntu0.22.04.1) ...
telecting previously unselected package docker.io.
Teparing to unpack .../6-docker.io (24.0.7-0ubuntu0.22.04.1) ...
telecting previously unselected package docker.io.
Teparing to unpack .../7-dubuntufan_0.12.16_ell.deb ...
telecting previously unselected package ubuntu-fan.
Teparing to unpack .../7-ubuntufan_0.12.16_ell.deb ...
teleting up nupack .../7-ubuntufan_0.12.16_ell.deb ...
teleting up masaq-base (2.90-0ubuntu0.22.04.1) ...
tetting up insertod-tata (2023112702-ubuntu0.22.04.1) ...
tetting up containerd (1.7.12-0ubuntu2-22.04.1) ...
tetting up docker.io (24.0.7-0ubuntu0.22.2.04.1) ...
tetting up docker.io (24.0.7-0ubuntu0.22.2.04.1) ...
tetting up docker.io (24.0.7-0ubuntu2-22.04.1) .
```

i-0991635f9d2675460 (minikube)

PublicIPs: 13.233.153.102 PrivateIPs: 172.31.8.1

### **Installing minikube:**

# Installing kubectl:

i-0991635f9d2675460 (minikube)

## Creating a new namespace:

```
ubuntu@ip-172-31-8-1:~$ kubectl create namespace my-ns-1
namespace/my-ns-1 created
```

#### Viewing created namespace:

```
ubuntu@ip-172-31-8-1:~$ kubectl get namespaces
NAME
                  STATUS
                           AGE
                  Active
default
                           4m42s
kube-node-lease Active
                           4m42s
kube-public
                  Active
                           4m42s
kube-system
                  Active
                           4m42s
                           7s
my-ns-1
                  Active
ubuntu@ip-172-31-8-1:~$ 🗍
```

## Creating a pod with the namespace:

```
apiVersion: v1
kind: Pod
metadata:
   name: nginx-pod
   namespace: my-ns-1
   labels:
       app: nginx
spec:
   containers:
   - name: nginx-con
       image: nginx
   ports:
   - containerPort: 80
```

```
ubuntu@ip-172-31-8-1:~$ kubectl get pods --namespace=my-ns-1
NAME READY STATUS RESTARTS AGE
nginx-pod 1/1 Running 0 36s
ubuntu@ip-172-31-8-1:~$
```