

# Assignment No-1

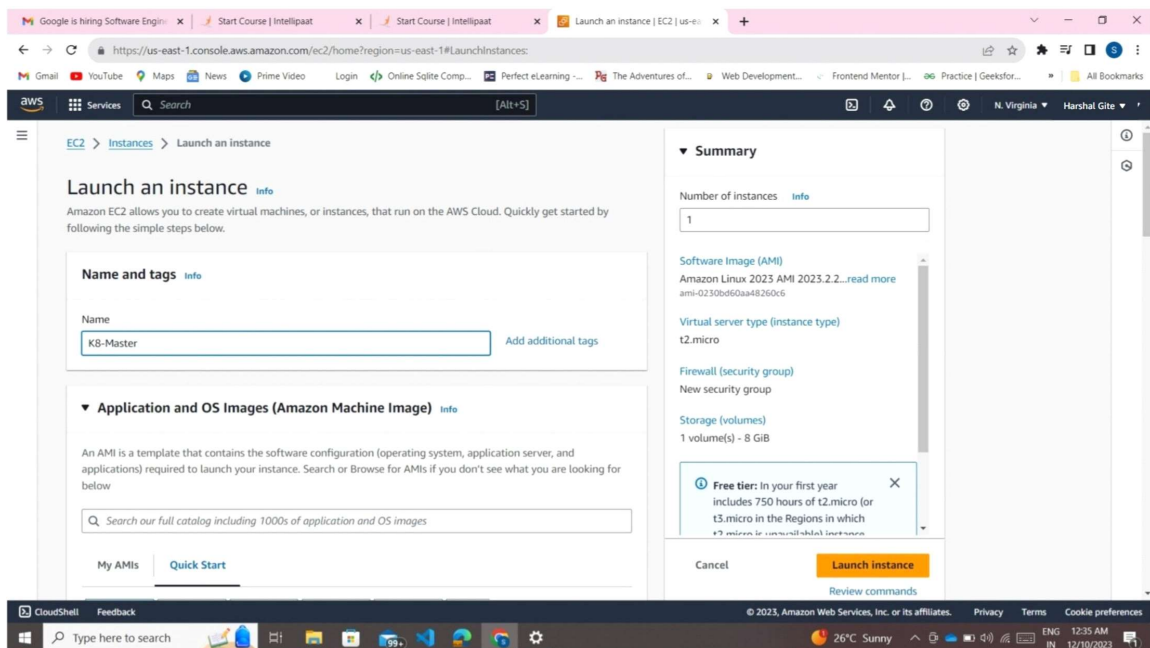
Email: harshalgite888@gmail.com

Tasks:

1. Deploy a Kubernetes cluster for 3 nodes.
2. Create a NGINX deployment of 3 replicas.

Solution:

Steps:



Google is hiring Software Engineer | Start Course | Intellipaat | Start Course | Intellipaat | Instances | EC2 | us-east-1

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:sort=desc:tag:Name

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AMI Catalog  
Elastic Block Store  
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Instances (6) Info

Find Instance by attribute or tag (case-sensitive)

Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
N-Instance	i-09d102c59d521e12e	Stopped	t2.micro			us-east-1a	-
k8-Slave2	i-017b133509ea7f201	Running	t2.micro			us-east-1a	ec2-3-80-240-54.co
k8-Slave1	i-07e389868a07144a2	Running	t2.micro			us-east-1a	ec2-54-196-84-111
K8-Master	i-0c7ac6dd47282ec08	Running	t2.micro			us-east-1a	ec2-3-84-123-71.co
jenkins-s2	i-0d9fc371c35942b32	Stopped	t2.micro			us-east-1d	-
Jenkins	i-008aeb66a5d0b3fe6	Stopped	t2.micro			us-east-1a	-

Select an instance

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0c7ac6dd47282ec08&osUser=ubuntu&region=us-east-1&sshPort=22#

Services Search [Alt+S]

Unpacking docker.io (24.0.5-0ubuntu~20.04.1) ...  
Collecting previously unselected package ubuntu-fan.  
Preparing to unpack .../8-ubuntu-fan\_0.12.13ubuntu0.1\_all.deb ...  
Unpacking ubuntu-fan (0.12.13ubuntu0.1) ...  
Setting up runc (1.1.7-0ubuntu1~20.04.1) ...  
Setting up dns-root-data (2019052802) ...  
Setting up libidn1:amd64 (1.33-2.2ubuntu2) ...  
Setting up bridge-utils (1.6-2ubuntu1) ...  
Setting up pipx (2.4-1) ...  
Setting up containerd (1.7.2-0ubuntu1~20.04.1) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.  
Setting up docker.io (24.0.5-0ubuntu1~20.04.1) ...  
Adding group 'docker' (GID 120) ...  
done.  
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.  
Created symlink /etc/systemd/system/socket.target.wants/docker.socket → /lib/systemd/system/docker.socket.  
Setting up dnsmasq-base (2.80-1.1ubuntu1.7) ...  
Setting up ubuntu-fan (0.12.13ubuntu0.1) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.  
Processing triggers for systemd (245.4-4ubuntu3.22) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...  
ubuntu@ip-172-31-34-208:~\$ docker --version  
Docker version 24.0.5, build 24.0.5-0ubuntu1~20.04.1  
ubuntu@ip-172-31-34-208:~\$

i-0c7ac6dd47282ec08 (K8-Master)  
PublicIPs: 3.81.67.21 PrivateIPs: 172.31.34.208

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The screenshot shows a terminal window within the AWS CloudShell interface. The terminal is running a script named `install.sh` on an Ubuntu 4.8 system. The script performs the following actions: updates the package list, upgrades the system, installs `curl`, adds the Kubernetes repository key, adds the repository, swaps off the swap space, and then installs `kubelet`, `kubeadm`, and `kubect1`. The terminal output shows the progress of these commands. Below the terminal window, the instance details for `i-0c7ac6dd47282ec08 (K8-Master)` are displayed, including public and private IP addresses. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 11:19 PM on 12/10/2023.

```
GNU nano 4.8 install.sh
sudo apt update
sudo apt upgrade -y
sudo apt install -y curl apt-transport-https ca-certificates software-properties-common
curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -
sudo add-apt-repository "deb http://apt.kubernetes.io/ kubernetes-xenial main"
sudo swapoff -s
sudo apt update
sudo apt install -y kubelet kubeadm kubect1
```

i-0c7ac6dd47282ec08 (K8-Master)  
PublicIPs: 3.81.67.21 PrivateIPs: 172.31.34.208

The screenshot shows a terminal window within the AWS CloudShell interface. The terminal is running a script named `install.sh` on an Ubuntu 4.8 system. The script performs the following actions: selects previously unselected packages, unpacks `ubuntu-fan`, sets up `runc`, `dns-root-data`, `libidn11:amd64`, `bridge-utils`, `pipx`, `containerd`, `docker.io`, and `docker`. It also creates symlinks for `containerd`, `docker`, and `ubuntu-fan`. The terminal output shows the progress of these commands. Below the terminal window, the instance details for `i-0c7ac6dd47282ec08 (K8-Master)` are displayed, including public and private IP addresses. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 11:21 PM on 12/10/2023.

```
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../8-ubuntu-fan_0.12.13ubuntu0.1_all.deb ...
Unpacking ubuntu-fan (0.12.13ubuntu0.1) ...
Setting up runc (1.1.7-0ubuntu1-20.04.1) ...
Setting up dns-root-data (2019052802) ...
Setting up libidn11:amd64 (1.33-2.2ubuntu2) ...
Setting up bridge-utils (1.6-2ubuntu1) ...
Setting up pipx (2.4.1) ...
Setting up containerd (1.7.2-0ubuntu1-20.04.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker.io (24.0.5-0ubuntu1-20.04.1) ...
Adding group 'docker' (GID 120) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Setting up dnsmasq-base (2.80-1.1ubuntu1.7) ...
Setting up ubuntu-fan (0.12.13ubuntu0.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...
ubuntu@ip-172-31-34-208:~$ docker --version
Docker version 24.0.5, build 24.0.5-0ubuntu1-20.04.1
ubuntu@ip-172-31-34-208:~$ sudo nano install.sh
ubuntu@ip-172-31-34-208:~$ bash install.sh
```

i-0c7ac6dd47282ec08 (K8-Master)  
PublicIPs: 3.81.67.21 PrivateIPs: 172.31.34.208

```
Start Course | Intellipaat x Meet - hjo-bkin-cqx x Instances | EC2 | us-east-1 x EC2 Instance Connect | ui x EC2 Instance Connect | ui x EC2 Instance Connect | ui x + - - - - -  
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905ddf975&osUser=ubuntu&region=us-east-1&sshPort=22#/  
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aws Services Search [Alt+S]  
[bootstrap-token] Creating the "cluster-info" ConfigMap in the "kube-public" namespace  
[kubelet-finalize] Updating "/etc/kubernetes/kubelet.conf" to point to a rotatable kubelet client certificate and key  
[addons] Applied essential addon: CoreDNS  
[addons] Applied essential addon: kube-proxy  
Your Kubernetes control-plane has initialized successfully!  
To start using your cluster, you need to run the following as a regular user:  
  
mkdir -p $HOME/.kube  
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config  
sudo chown $(id -u):$(id -g) $HOME/.kube/config  
Alternatively, if you are the root user, you can run:  
  
export KUBECONFIG=/etc/kubernetes/admin.conf  
You should now deploy a pod network to the cluster.  
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:  
https://kubernetes.io/docs/concepts/cluster-administration/addons/  
Then you can join any number of worker nodes by running the following on each as root:  
  
kubeadm join 172.31.89.46:6443 --token fe4td4.cln3lexism156e15 \\  
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec  
root@ip-172-31-89-46:/home/ubuntu#  
  
i-06523500905ddf975 (Master)  
PublicIPs: 3.94.57.4 PrivateIPs: 172.31.89.46  
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```

```
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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-03aed47c0bcff1747&osUser=ubuntu&sshPort=22#/  
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aws Services Search [Alt+S]  
Setting up socat (1.7.3.3-2) ...  
Setting up cri-tools (1.26.0-00) ...  
Setting up kubernetescni (1.2.0-00) ...  
Setting up kubelet (1.28.2-00) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.  
Setting up kubeadm (1.28.2-00) ...  
Processing triggers for man-db (2.9.1-1) ...  
ubuntu@ip-172-31-91-254:~$ kubeadm join 172.31.89.46:6443 --token fe4td4.cln3lexism156e15 \\  
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec  
[preflight] Running pre-flight checks  
error execution phase preflight: [preflight] Some fatal errors occurred:  
[ERROR IsPrivilegedUser]: user is not running as root  
[preflight] If you know what you are doing, you can make a check non-fatal with '--ignore-preflight-errors=...'  
To see the stack trace of this error execute with --v=5 or higher  
ubuntu@ip-172-31-91-254:~$ kubeadm join 172.31.89.46:6443 --token fe4td4.cln3lexism156e15 \\  
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec  
[preflight] Running pre-flight checks  
error execution phase preflight: [preflight] Some fatal errors occurred:  
[ERROR IsPrivilegedUser]: user is not running as root  
[preflight] If you know what you are doing, you can make a check non-fatal with '--ignore-preflight-errors=...'  
To see the stack trace of this error execute with --v=5 or higher  
ubuntu@ip-172-31-91-254:~$ sudo su  
root@ip-172-31-91-254:/home/ubuntu# kubeadm join 172.31.89.46:6443 --token fe4td4.cln3lexism156e15 \\  
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec  
[preflight] Running pre-flight checks  
  
i-03aed47c0bcff1747 (Slave1)  
PublicIPs: 35.174.156.66 PrivateIPs: 172.31.91.254  
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```

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← → ↻ <https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905ddf975&osUser=ubuntu&region=us-east-1&sshPort=22#/> ☆ 🌘 📄 ⓘ

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To start using your cluster, you need to run the following as a regular user:

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

Alternatively, if you are the root user, you can run:

```
export KUBECONFIG=/etc/kubernetes/admin.conf
```

You should now deploy a pod network to the cluster.  
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:  
<https://kubernetes.io/docs/concepts/cluster-administration/addons/>

Then you can join any number of worker nodes by running the following on each as root:

```
kubeadm join 172.31.89.46:6443 --token fextd4.cln3lexlml56e15 \
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec
root@ip-172-31-89-46:/home/ubuntu# mkdir -p $HOME/.kube
root@ip-172-31-89-46:/home/ubuntu# exit
exit
ubuntu@ip-172-31-89-46:~$ mkdir -p $HOME/.kube
ubuntu@ip-172-31-89-46:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$
```

i-06523500905ddf975 (Master)  
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← → ↻ <https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905ddf975&osUser=ubuntu&region=us-east-1&sshPort=22#/> ☆ 🌘 📄 ⓘ

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<https://kubernetes.io/docs/concepts/cluster-administration/addons/>

Then you can join any number of worker nodes by running the following on each as root:

```
kubeadm join 172.31.89.46:6443 --token fextd4.cln3lexlml56e15 \
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec
root@ip-172-31-89-46:/home/ubuntu# mkdir -p $HOME/.kube
root@ip-172-31-89-46:/home/ubuntu# exit
exit
ubuntu@ip-172-31-89-46:~$ mkdir -p $HOME/.kube
ubuntu@ip-172-31-89-46:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
ubuntu@ip-172-31-89-46:~$ kubectl get nodes -o wide
```

NAME	STATUS	ROLES	AGE	VERSION	INTERNAL-IP	EXTERNAL-IP	OS-IMAGE	KERNEL-VERSION	CONTAINER-RUNTIME
ip-172-31-89-46	Ready	control-plane	6m31s	v1.28.2	172.31.89.46	<none>	Ubuntu 20.04.6 LTS	5.15.0-1048-aws	containerd://1.7.2

```
ubuntu@ip-172-31-89-46:~$
```

i-06523500905ddf975 (Master)  
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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905dd975&osUser=ubuntu&region=us-east-1&sshPort=22#/?

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You should now deploy a pod network to the cluster.  
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:  
https://kubernetes.io/docs/concepts/cluster-administration/addons/  
Then you can join any number of worker nodes by running the following on each as root:

```
kubeadm join 172.31.89.46:6443 --token fextd4.cln3lex1sm156e15 \
--discovery-token-ca-cert-hash sha256:a8dc073f7d98c02f398e6875c98c7786d0b9825786e3e76d290d5ab2a3c882ec
root@ip-172-31-89-46:/home/ubuntu# mkdir -p $HOME/.kube
root@ip-172-31-89-46:/home/ubuntu# exit
exit
ubuntu@ip-172-31-89-46:~$ mkdir -p $HOME/.kube
ubuntu@ip-172-31-89-46:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
ubuntu@ip-172-31-89-46:~$ kubectl get nodes -o wide
NAME          STATUS    ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION   CONTAINER-RUNTIME
ip-172-31-89-46 Ready    control-plane 6m31s   v1.28.2   172.31.89.46   <none>        Ubuntu 20.04.6 LTS   5.15.0-1048-aws   containerd://1.7.2
ubuntu@ip-172-31-89-46:~$ sudo nano deploy.sh
```

i-06523500905dd975 (Master)  
PublicIPs: 3.94.57.4 PrivateIPs: 172.31.89.46

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905dd975&osUser=ubuntu&region=us-east-1&sshPort=22#/?

Services Search [Alt+S]

GNU nano 4.8 deploy.sh

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx
          ports:
            - containerPort: 80
```

i-06523500905dd975 (Master)  
PublicIPs: 3.94.57.4 PrivateIPs: 172.31.89.46

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905ddf975&osUser=ubuntu&region=us-east-1&sshPort=22#/

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```
root@ip-172-31-89-46:/home/ubuntu# exit
exit
ubuntu@ip-172-31-89-46:~$ mkdir -p $HOME/.kube
ubuntu@ip-172-31-89-46:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
ubuntu@ip-172-31-89-46:~$ kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
ubuntu@ip-172-31-89-46:~$ kubectl get nodes -o wide
NAME                STATUS    ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION        CONTAINER-RUNTIME
ip-172-31-89-46     Ready    control-plane   6m31s   v1.20.2   172.31.89.46   <none>         Ubuntu 20.04.6 LTS   5.15.0-1048-aws       containerd://1.7.2
ubuntu@ip-172-31-89-46:~$ sudo nano deploy.sh
ubuntu@ip-172-31-89-46:~$ kubectl apply -f deploy.sh
deployment.apps/nginx-deployment created
ubuntu@ip-172-31-89-46:~$ sudo nano deploy.yaml
ubuntu@ip-172-31-89-46:~$ kubectl apply -f deploy.yaml
deployment.apps/nginx-deployment unchanged
ubuntu@ip-172-31-89-46:~$ kubectl get deploy
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment    0/3     3             0           3m22s
ubuntu@ip-172-31-89-46:~$
```

i-06523500905ddf975 (Master)  
PublicIPs: 3.94.57.4 PrivateIPs: 172.31.89.46

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06523500905ddf975&osUser=ubuntu&region=us-east-1&sshPort=22#/

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N. Virginia Harshal Gite

```
ubuntu@ip-172-31-89-46:~$ kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
ubuntu@ip-172-31-89-46:~$ kubectl get nodes -o wide
NAME                STATUS    ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION        CONTAINER-RUNTIME
ip-172-31-89-46     Ready    control-plane   6m31s   v1.20.2   172.31.89.46   <none>         Ubuntu 20.04.6 LTS   5.15.0-1048-aws       containerd://1.7.2
ubuntu@ip-172-31-89-46:~$ sudo nano deploy.sh
ubuntu@ip-172-31-89-46:~$ kubectl apply -f deploy.sh
deployment.apps/nginx-deployment created
ubuntu@ip-172-31-89-46:~$ sudo nano deploy.yaml
ubuntu@ip-172-31-89-46:~$ kubectl apply -f deploy.yaml
deployment.apps/nginx-deployment unchanged
ubuntu@ip-172-31-89-46:~$ kubectl get deploy
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment    0/3     3             0           3m22s
ubuntu@ip-172-31-89-46:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-7c5ddbdf54-6gacp   0/1     Pending   0           3m33s
nginx-deployment-7c5ddbdf54-gp5a5   0/1     Pending   0           3m33s
nginx-deployment-7c5ddbdf54-vf6x4   0/1     Pending   0           3m33s
ubuntu@ip-172-31-89-46:~$
```

i-06523500905ddf975 (Master)  
PublicIPs: 3.94.57.4 PrivateIPs: 172.31.89.46

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## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](http://nginx.org).  
Commercial support is available at [nginx.com](http://nginx.com).

*Thank you for using nginx.*