

▼ Instances

Instances

Successfully terminated i-05f98a67ab403124b,i-03eff853578c4064f,i-050f8a0628ecbd381

Instances (1/5) Info



Connect

Instance state ▼

Actions ▼

Launch instances



Find instance by attribute or tag (case-sensitive)

< 1 > ⚙

<input type="checkbox"/>	Name ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Ava
<input type="checkbox"/>	Kube-master	i-03c9311decc54eab0	Running	t2.medium	Initializing	No alarms +	us-e
<input type="checkbox"/>	Kube-slave1	i-0ad0a13bcf2d5152b	Running	t2.medium	Initializing	No alarms +	us-e
<input checked="" type="checkbox"/>	Kube-slave2	i-064446cdca7050057	Running	t2.medium	Initializing	No alarms +	us-e

Instance: i-064446cdca7050057



Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary Info

Instance ID

i-064446cdca7050057

Public IPv4 address

3.128.205.218 | [open address](#)

Private IPv4 addresses

172.31.12.41

IPv6 address

Instance state

Running

Public IPv4 DNS

ec2-3-128-205-218.us-east

Slave1

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority

Remote monitoring

☐ Follow terminal folder

2. Master 3. Slave1 4. Slave2

install.sh

```
GNU nano 6.2
sudo apt update -y
sudo apt install docker.io -y

sudo systemctl start docker
sudo systemctl enable docker

sudo curl -fsSL /usr/share/keyrings/kubernetes-archive-keyring.gpg https://packages.cloud.google.com/apt/doc/apt-key.gpg
echo "deb [signed-by=/usr/share/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main" | \
sudo apt update -y
sudo apt install kubeadm=1.20.0-00 kubect=1.20.0-00 kubelet=1.20.0-00 -y
```

[Wrote 12 lines]

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line M-E Redo M-6 Copy

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Slave1

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority

Remote monitoring

☐ Follow terminal folder

2. Master 3. Slave1 4. Slave2

```
Unpacking kubeadm (1.20.0-00) ...
Setting up conntrack (1:1.4.6-2build2) ...
Setting up kubectl (1.20.0-00) ...
Setting up ebtables (2.0.11-4build2) ...
Setting up socat (1.7.4.1-3ubuntu4) ...
Setting up cri-tools (1.25.0-00) ...
Setting up kubernetes-cni (1.1.1-00) ...
Setting up kubelet (1.20.0-00) ...
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.
Setting up kubeadm (1.20.0-00) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes ...
Scanning linux images ...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-6-117:~$ kubeadm join 172.31.14.85:6443 --token nk2i09.7kv6gggpu42atdr2 \
--discovery-token-ca-cert-hash sha256:6575d83fc33d726631e91d002dbf0110b54c75834bf5a20a4071bcbbb63baa54
[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-172-31-6-117:~$ sudo su
root@ip-172-31-6-117:/home/ubuntu# kubeadm join 172.31.14.85:6443 --token nk2i09.7kv6gggpu42atdr2 \
--discovery-token-ca-cert-hash sha256:6575d83fc33d726631e91d002dbf0110b54c75834bf5a20a4071bcbbb63baa54
```

Connecting Master to Slave

←

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

Reconnect SSH-browser

User sessions

- 18.116.23.124 (ubuntu)
- 3.128.205.218 (ubuntu)
- 3.135.187.223 (ubuntu)
- 3.138.124.190 (ubuntu)
- 3.138.134.3 (ubuntu)
- 3.144.47.252 (ubuntu)

2. Master

3. Slave1

4. Slave2

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 172.31.14.85:6443 --token nk2i09.7kv6gggpu42atdr2 \
--discovery-token-ca-cert-hash sha256:6575d83fc33d726631e91d002dbf0110b54c75834bf5a20a4071bcbbb63baa54
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes
The connection to the server localhost:8080 was refused - did you specify the right host or port?
root@ip-172-31-14-85:/home/ubuntu# mkdir -p $HOME/.kube
root@ip-172-31-14-85:/home/ubuntu# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@ip-172-31-14-85:/home/ubuntu# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@ip-172-31-14-85:/home/ubuntu# kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemons
et-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
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes
NAME                STATUS    ROLES    AGE   VERSION
ip-172-31-12-41      NotReady <none>   3m35s v1.20.0
ip-172-31-14-85      NotReady control-plane,master 4m42s v1.20.0
ip-172-31-6-117      NotReady <none>   4m1s  v1.20.0
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes -w
NAME                STATUS    ROLES    AGE   VERSION
ip-172-31-12-41      Ready     <none>    3m45s v1.20.0
ip-172-31-14-85      Ready     control-plane,master 4m52s v1.20.0
ip-172-31-6-117      Ready     <none>    4m11s v1.20.0
```

3 Nodes Cluster Created

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

Reconnect SSH-browser

User sessions

- 18.116.23.124 (ubuntu)
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- 3.135.187.223 (ubuntu)
- 3.138.124.190 (ubuntu)
- 3.138.134.3 (ubuntu)
- 3.144.47.252 (ubuntu)

2. Master 3. Slave1 4. Slave2

<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 172.31.14.85:6443 --token nk2i09.7kv6gggpu42atdr2 \
--discovery-token-ca-cert-hash sha256:6575d83fc33d726631e91d002dbf0110b54c75834bf5a20a4071bcbbb63baa54
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes
The connection to the server localhost:8080 was refused - did you specify the right host or port?
root@ip-172-31-14-85:/home/ubuntu# mkdir -p $HOME/.kube
root@ip-172-31-14-85:/home/ubuntu# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@ip-172-31-14-85:/home/ubuntu# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@ip-172-31-14-85:/home/ubuntu# kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemons
et-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
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes
NAME                STATUS    ROLES    AGE     VERSION
ip-172-31-12-41      NotReady <none>    3m35s   v1.20.0
ip-172-31-14-85      NotReady control-plane,master 4m42s   v1.20.0
ip-172-31-6-117      NotReady <none>    4m1s    v1.20.0
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes -w
NAME                STATUS    ROLES    AGE     VERSION
ip-172-31-12-41      Ready     <none>    3m45s   v1.20.0
ip-172-31-14-85      Ready     control-plane,master 4m52s   v1.20.0
ip-172-31-6-117      Ready     <none>    4m11s   v1.20.0
ip-172-31-14-85      Ready     control-plane,master 5m4s    v1.20.0
^Croot@ip-172-31-14-85:/home/ubuntu# ls
install.sh
root@ip-172-31-14-85:/home/ubuntu# nano nginxdeploy.yaml
```

←

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

Reconnect SSH-browser

User sessions

- 18.116.23.124 (ubuntu)
- 3.128.205.218 (ubuntu)
- 3.135.187.223 (ubuntu)
- 3.138.124.190 (ubuntu)
- 3.138.134.3 (ubuntu)
- 3.144.47.252 (ubuntu)

2. Master 3. Slave1 4. Slave2

GNU nano 6.2 nginxdeploy.yaml *

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

Deployment 3 Replica

[line 21/24 (87%), col 28/28 (100%), char 334/339 (98%)]

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line M-E Redo M-6 Copy

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

Reconnect SSH-browser

User sessions

- 18.116.23.124 (ubuntu)
- 3.128.205.218 (ubuntu)
- 3.135.187.223 (ubuntu)
- 3.138.124.190 (ubuntu)
- 3.138.134.3 (ubuntu)
- 3.144.47.252 (ubuntu)

2. Master 3. Slave1 4. Slave2

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

```
kubeadm join 172.31.14.85:6443 --token nk2i09.7kv6gggpu42atdr2 \
--discovery-token-ca-cert-hash sha256:6575d83fc33d726631e91d002dbf0110b54c75834bf5a20a4071bcbbb63baa54
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes
The connection to the server localhost:8080 was refused - did you specify the right host or port?
root@ip-172-31-14-85:/home/ubuntu# mkdir -p $HOME/.kube
root@ip-172-31-14-85:/home/ubuntu# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@ip-172-31-14-85:/home/ubuntu# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@ip-172-31-14-85:/home/ubuntu# kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemons
et-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
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes
NAME                STATUS    ROLES    AGE      VERSION
ip-172-31-12-41     NotReady <none>   3m35s    v1.20.0
ip-172-31-14-85     NotReady control-plane,master 4m42s    v1.20.0
ip-172-31-6-117     NotReady <none>   4m1s     v1.20.0
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes -w
NAME                STATUS    ROLES    AGE      VERSION
ip-172-31-12-41     Ready     <none>   3m45s    v1.20.0
ip-172-31-14-85     Ready     control-plane,master 4m52s    v1.20.0
ip-172-31-6-117     Ready     <none>   4m11s    v1.20.0
ip-172-31-14-85     Ready     control-plane,master 5m4s     v1.20.0
^Croot@ip-172-31-14-85:/home/ubuntu# ls
install.sh
root@ip-172-31-14-85:/home/ubuntu# nano nginxdeploy.yaml
root@ip-172-31-14-85:/home/ubuntu# kubectl create -f nginxdeploy.yaml
```

Run

←

Master

TerminalSessionsViewX serverToolsGamesSettingsMacrosHelp

SessionServersToolsGamesSessionsViewSplitMultiExecTunnelingPackagesSettingsHelp

Quick connect...

Reconnect SSH-browser

User sessions

18.116.23.124 (ubuntu)

3.128.205.218 (ubuntu)

3.135.187.223 (ubuntu)

3.138.124.190 (ubuntu)

3.138.134.3 (ubuntu)

3.144.47.252 (ubuntu)

2. Master

3. Slave1

4. Slave2

```

ip-172-31-6-117    NotReady    <none>          4m1s    v1.20.0
root@ip-172-31-14-85:/home/ubuntu# kubectl get nodes -w
NAME                STATUS    ROLES    AGE    VERSION
ip-172-31-12-41     Ready    <none>    3m45s  v1.20.0
ip-172-31-14-85     Ready    control-plane,master  4m52s  v1.20.0
ip-172-31-6-117     Ready    <none>    4m11s  v1.20.0
ip-172-31-14-85     Ready    control-plane,master  5m4s   v1.20.0
^Croot@ip-172-31-14-85:/home/ubuntu# ls
install.sh
root@ip-172-31-14-85:/home/ubuntu# nano nginxdeploy.yaml
root@ip-172-31-14-85:/home/ubuntu# kubectl create -f nginxdeploy.yaml
error: error validating "nginxdeploy.yaml": error validating data: [ValidationError(Deployment): unknown field "metadata" in io.k8s.api.apps.v1.Deployment, ValidationError(Deployment.spec): unknown field "selectors" in io.k8s.api.apps.v1.DeploymentSpec, ValidationError(Deployment.spec): missing required field "selector" in io.k8s.api.apps.v1.DeploymentSpec]; if you choose to ignore these errors, turn validation off with --validate=false
root@ip-172-31-14-85:/home/ubuntu# sudo nano nginxdeploy.yaml
root@ip-172-31-14-85:/home/ubuntu# kubectl create -f nginxdeploy.yaml
deployment.apps/nginx-deployment created
root@ip-172-31-14-85:/home/ubuntu# kubectl get deploy
NAME                READY    UP-TO-DATE    AVAILABLE    AGE
nginx-deployment    3/3      3              3             13s
root@ip-172-31-14-85:/home/ubuntu# kubectl get pods
NAME                READY    STATUS    RESTARTS    AGE
nginx-deployment-7848d4b86f-8stwq  1/1      Running    0            29s
nginx-deployment-7848d4b86f-rht62  1/1      Running    0            29s
nginx-deployment-7848d4b86f-x6pxt  1/1      Running    0            29s
root@ip-172-31-14-85:/home/ubuntu# kubectl get pods -o wide
NAME                READY    STATUS    RESTARTS    AGE    IP            NODE                NOMINATED NODE    READINESS GATES
nginx-deployment-7848d4b86f-8stwq  1/1      Running    0            49s    10.40.0.2     ip-172-31-6-117    <none>             <none>
nginx-deployment-7848d4b86f-rht62  1/1      Running    0            49s    10.38.0.2     ip-172-31-12-41    <none>             <none>
nginx-deployment-7848d4b86f-x6pxt  1/1      Running    0            49s    10.40.0.3     ip-172-31-6-117    <none>             <none>
root@ip-172-31-14-85:/home/ubuntu#

```

3 Deployment Nginx

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