## **Assisted practice 4:**

wget https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/kubectl chmod +x kubectl

./kubectl

mkdir bin

cp./kubectl \$HOME/bin/kubectl && export PATH=\$HOME/bin:\$PATH

kubectl version

kubectl version --short -client

```
root@ip-172-31-17-73:~# mkdir bin
root@ip-172-31-17-73:~# cp ./kubectl $HOME/bin/kubectl && export PATH=$HOME/bin:$PATH
root@ip-172-31-17-73:~# kubectl version
Client Version: version.Info{Major:"1", Minor:"10", GitVersion:"v1.10.3", GitCommit:"2bba0-26T20:40:11Z", GoVersion:"go1.9.3", Compiler:"gc", Platform:"linux/amd64"}
```

:https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/aws-iamauthenticator

wget https://amazon-eks.s3-us-west-2.amazonaws.com/1.10.3/2018-07-26/bin/linux/amd64/aws-iam-authenticator

chmod +x ./aws-iam-authenticator

cp ./aws-iam-authenticator \$HOME/bin/aws-iam-authenticator && export PATH=\$HOME/bin:\$PATH aws-iam-authenticator help

curl --silent --location

"https://github.com/weaveworks/eksctl/releases/download/latest\_release/eksctl\_\$(uname - s)\_amd64.tar.gz" | tar xz -C /tmp

mv /tmp/eksctl /usr/local/bin

eksctl version

```
root@ip-172-31-86-69:~# curl --silent --location "https://github.com/weaveworks/eksctl/r
p
root@ip-172-31-86-69:~# mv /tmp/eksctl /usr/local/bin
root@ip-172-31-86-69:~# eksctl version
[å
    '] version.Info{BuiltAt:"", GitCommit:"", GitTag:"0.2.1"}
root@ip-172-31-86-69:~#
```

apt install python-pip

pip install awscli

aws -version

## after creating a new access key

Create access key

Access key ID	Created	Last used	Status		
AKIAVORWYFFGC3WVPNWC	2019-07-24 08:28 UTC+0530	2019-07-26 13:51 UTC+0530 with sts in us-east-1	Active	Make inactive	×
AKIAVORWYFFGE3YTFZFZ	2019-07-28 07:49 UTC+0530	N/A	Active	Make inactive	×

```
root@ip-172-31-17-73:~# aws configure

AWS Access Key ID [None]: AKIAVORWYFFGE3YTFZFZ

AWS Secret Access Key [None]: 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

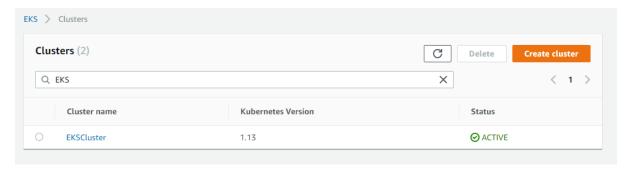
Default region name [None]: us-east-1

Default output format [None]: json

root@ip-172-31-17-73:~#
```

## eksctl create cluster --name=EKSCluster --nodes=2 --region=us-west-2

```
root@ip-172-31-86-69:~# kubectl get node
                                               STATUS
                                                          ROLES
                                                                    AGE
NAME
                                                                              VERSTON
ip-192-168-28-149.us-west-2.compute.internal
                                               Ready
                                                          <none>
                                                                    5m
                                                                              v1.13.7-eks-c57ff8
ip-192-168-76-186.us-west-2.compute.internal
                                                                              v1.13.7-eks-c57ff8
                                               Ready
                                                          <none>
                                                                    5m
root@ip-172-31-86-69:~#
```



kubectl run kubernetes-bootcamp --image=docker.io/jocatalin/kubernetes-bootcamp:v1 --port=8080 kubectl expose deployment/kubernetes-bootcamp --port=8080 --target-port=8080 --type=NodePort

```
oot8ip-172-31-86-69:~# kubectl run kubernetes-bootcamp --image=docker.io/jocatalin/kubernetes-bootcamp:v1 --port=8080
deployment.apps "kubernetes-bootcamp" created
root@ip-172-31-86-69:~# kubectl expose deployment/kubernetes-bootcamp --port=8080 --target-port=8080 --type=NodePort
service "kubernetes-bootcamp" exposed
root@ip-172-31-86-69:~# kubectl get pods
NAME READY
kubernetes-bootcamp-6c5cfd894b-9jqzf 0/1
root@ip-172-31-86-69:~# kubectl get deployments
                                                                                       RESTARTS
                                                            ContainerCreating 0
NAME DESIRED CURRENT UP-TO-DATE AVAILABLE AGE kubernetes-bootcamp 1 1 1 1 15s root@ip-172-31-86-69:~# kubectl get pods
NAME READY
kubernetes-bootcamp-6c5cfd894b-9jqzf 1/1
root@ip-172-31-86-69:~# kubectl get services
                                                                        RESTARTS AGE
                                                             Running 0
                                                                                       19s
                          TYPE CLUSTER-IP
ClusterIP 10.100.0.1
                                                               EXTERNAL-IP PORT(S)
                                                              <none>
kubernetes
                                                                                443/TCP
                                                                                                      44m
kubernetes-bootcamp NodePort
                                                                                8080:30306/TCP
                                                              <none>
 oot@ip-172-31-86-69:~#
```