

K8s clutter

One master

Two nodes

KOPS:

- 1) Create R53 with public and map Name spaces
- 2) Create a IAM Admin user
- 3) Create IAM role with admin permission
- 4) Create ubuntu16 instance with t2.micro with iam role
- 5) Install aws cli
- 6) Login Aws configure
- 7) Create aws s3 bucket
- 8) Install KOPS on ec2 instance
- 9) Install kubectl on ec2 instance
- 10) Create k8s cluster by command

- 1) Create R53 with public (maha4devops.in) and map NS
- 2) Create IAM role with admin police
- 3) Create IAM admin user
- 4) Create instance with ubuntu 16 with t2.micro and mykobsrole16nov21
- 5) Install awscli and configure
- 6) Create s3 bucket
aws s3 mb s3://maha4devops.in.k8s002233 --region us-west-2
- 7) Install KOPS

```
# curl -LO https://github.com/kubernetes/kops/releases/download/$(curl -s  
https://api.github.com/repos/kubernetes/kops/releases/latest | grep tag_name | cut -d '"' -f  
4)/kops-linux-amd64
```

```
# chmod +x kops-linux-amd64  
# sudo mv kops-linux-amd64 /usr/local/bin/kops  
# kops version
```

8) Install kubectl

```
# curl -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s  
https://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/linux/amd64/k  
bectl
```

```
# chmod +x ./kubectl
```

```
# sudo mv ./kubectl /usr/local/bin/kubectl
```

9) As root user set class path

```
vi ~/.bashrc
```

```
export KOPS_CLUSTER_NAME=maha4devops.in
```

```
export KOPS_STATE_STORE=s3://maha4devops.in.k8s002233
```

10) source ~/.bashrc

11) ssh-keygen

```
kops create cluster \
```

```
--state=${KOPS_STATE_STORE} \
```

```
--node-count=2 \
```

```
--master-size=t2.medium \
```

```
--node-size=t2.medium \
```

```
--zones=us-west-2a,us-west-2b \
```

```
--name=${KOPS_CLUSTER_NAME} \
```

```
--dns public \
```

```
--master-count 1
```

```
kops update cluster --name maha4devops.in --yes --admin
```

```
kops validate cluster --wait 10m
```

list clusters with: kops get cluster

*** edit this cluster with: kops edit cluster maha4devops.in**

*** edit your node instance group: kops edit ig --name=maha4devops.in nodes-us-west-2a**

*** edit your master instance group: kops edit ig --name=maha4devops.in**

master-us-west-2a

Finally configure your cluster with:

kops update cluster --name maha4devops.in --yes --admin

kops validate cluster --wait 10m

kops edit cluster --name maha4devops.in --yes --admin

kops update cluster --name maha4devops.in --yes --admin

kops validate cluster --wait 10m

kops delete cluster --yes