

KOPS:

- 1) Create Domain**
- 2) Create R53 with public and map Name spaces**
- 3) Create a IAM Admin user**
- 4) Create IAM role with admin permission**
- 5) Create ubuntu18 instance with t2.micro with iam role**
- 6) Install aws cli**
- 7) Login Aws configure**
- 8) Create aws s3 bucket**
- 9) Install KOPS on ec2 instance**
- 10) Install kubectl on ec2 instance**
- 11) 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 mykopsROLE22feb**
- 5) Install awscli and configure**
- 6) Create s3 bucket**
aws s3 mb s3://maha4devops.in.k8s040622 --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  
ubectl
```

```
# 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.k8s040622
```

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
```