MAIN CORRECT STEPS OF FULL KOPS

<https://kubernetes.io/docs/setup/production-environment/tools/kops/>

Don’t Refere this video just for Reference

<https://www.youtube.com/watch?v=6NymWMtcByg&t=1269s>

Install kubectl

REFERENCE LINK -<https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/>

curl -LO "https://dl.k8s.io/release/**$(**curl -L -s https://dl.k8s.io/release/stable.txt**)**/bin/linux/amd64/kubectl"

curl -LO "https://dl.k8s.io/**$(**curl -L -s https://dl.k8s.io/release/stable.txt**)**/bin/linux/amd64/kubectl.sha256"

echo "**$(**<kubectl.sha256**)** kubectl" | sha256sum --check

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

kubectl version --client

INSTALL KOPS

REFERENCE LINK <https://github.com/kubernetes/kops/releases>

STEPS

wget <https://github.com/kubernetes/kops/releases/download/v1.21.0/kops-linux-amd64>

$ sudo chmod +x kops-linux-amd64 # Add execution permissions

$ sudo mv kops-linux-amd64 /usr/local/bin/kops # Move the kops to /usr/local/bin

Which kops

Aws

Create IAM USER

aws configure

webpage -> go to route53 create hosted zone no need to create **record** anything

aws s3 ls

aws s3api create-bucket --bucket goodkube --create-bucket-configuration LocationConstraint=us-west-2

export KOPS\_STATE\_STORE=s3://goodkube

cd .aws

ls

cat credentials

cd

export aws\_secret\_access\_key=dFeYtQf6ij0lfveSHQ82oWeLtXvuZn/xt3DXubDt

export aws\_access\_key\_id=AKIATNLOTOBCVOWVBUF6

This will give error like kops create secret --name ranjanijana.tk sshpublickey admin -i ~/.ssh/id\_rsa.pub

ls -a

cd .ssh

ls

ssh-keygen

ls

cd

kops create secret --name ranjanijana.tk sshpublickey admin -i ~/.ssh/id\_rsa.pub

kops update cluster

kops create cluster --zones=us-west-2a ranjanijana.tk

kops get cluster

kops update cluster ranjanijana.tk --yes

kops validate cluster

clear

kops validate cluster

As of kOps 1.19 there are two reasons you will suddenly get this error:

1. If you delete a cluster and reprovision it, your old admin is not removed from the kubeconfig and kOps/kubectl tries to reuse it.
2. New certificates have a TTL of 18h by default, so you need to reprovision them about once a day.

Both issues above are fixed by running kops export kubecfg –admin

# [**kOps 1.19 reports error “Unauthorized” when interfacing with AWS cluster**](https://stackoverflow.com/questions/66341494/kops-1-19-reports-error-unauthorized-when-interfacing-with-aws-cluster)

**kops export kubecfg --admin**