kubernetes

Kubernetes: SetUp AWS for Kops

➤ **Download Kops** on your machine. (Mac/Linux)

➤ User can use **Cloud Machine** too.

➤ Commands : **Refer the Doc**

➤ Install **Python PIP**. This will support to setUp the **AWS CLI**.

➤ Install **AWS CLI**.

➤ Verify AWS CLI using command : **aws**

➤ **Create/Log-in** AWS Console Account.

➤ SetUp AWS **IAM permission** for Kops.

➤ Create an user(kops) and give them permission.

➤ Permission required for **Kops** user.
AmazonEC2FullAccess
AmazonRoute53FullAccess
AmazonS3FullAccess
IAMFullAccess
AmazonVPCFullAccess

➤ Configure User with AWS Account.

➤ Run command on your machine:
aws configure

➤ Provide AWS **access Key** and AWS **Secret Access Key**.

➤ Specify Default region or Output format.

➤ Verify credentials and config.
ls -lrt ~/.aws/

➤ S3 bucket for the **`KOPS_STATE_STORE`**.

➤ **KOPS_STATE_STORE** is the source of truth for all clusters managed by **Kops**.

➤ Get fastest Region for Deploy the S3 Bucket.

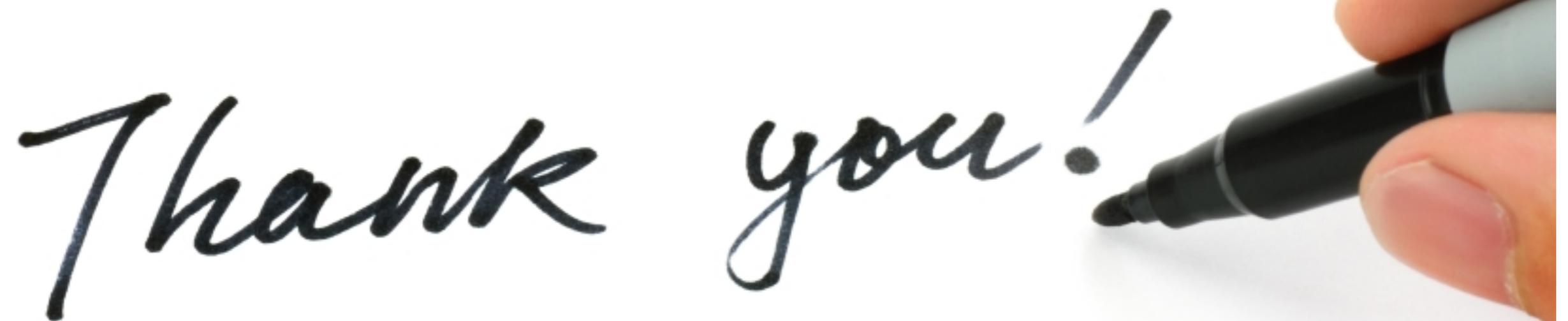➤ User can use https://www.cloudping.info/ to choose the fastest region as per their location.

➤ Kops clusters must be **valid DNS names**.

➤ We need to **SetUp DNS** for the Kops Clusters.

➤ SetUp DNS in AWS

➤ User can test the SubDomain.
   dig ns subdomain.example.com

➤ With **Kops 1.6.2 or later**, then DNS configuration is **optional**.

➤ The only requirement to trigger this is to have the cluster name end with **.k8s.local**

See you in next lecture ...