



# kubernetes

---

*Kubernetes: SetUp AWS for Kops*

## *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**

## *KUBERNETES : Setup AWS for Kops*

---

- **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*

## *KUBERNETES : Setup AWS for Kops*

---

- 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/`

## *KUBERNETES : Setup AWS for Kops*

---

- 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.

## *KUBERNETES : Setup AWS for Kops*

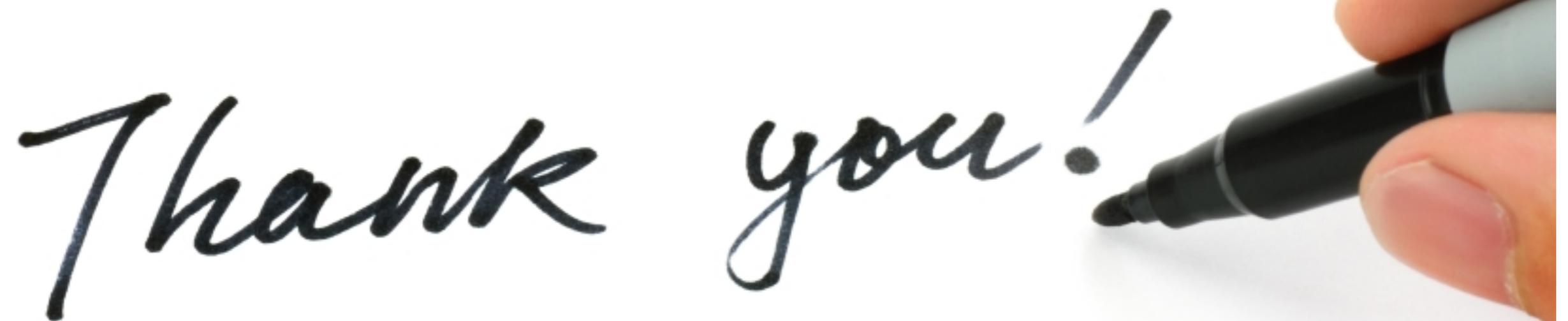
---

- 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**

*Will see you in Next Lecture...*

---

*Thank you!*

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the marker tip touching the paper. The background is plain white.

*See you in next lecture ...*