

## **AWS DEVOPS**

### **Introduction to AWS DEVOPS**

- What is DevOps in cloud?
- History of DevOps
- DevOps and software life cycle
- DevOps main objectives
- IAAS overview
- PAAS overview
- SAAS overview
- Continuous Testing and Integration
- Continuous Release and deployment
- Continuous Application monitoring

## **AWS Web Services**

### **Basic of Linux for AWS**

- Cd    ▪ Mkdir    ▪ Ls    ▪ Jobs    ▪ Chmod
- Vim    ▪ Vi & cat    ▪ Gzip    ▪ And many more....

### **Amazon Elastic Compute Cloud (EC2)(Complete)**

- Different instance types
- AMI's
- Volumes
- Snapshots
- EIP's
- Key pairs
- Security groups
- Network Interfaces
- Load balancers
- Auto scaling
- Tags

## **AWS S3**

- What is s3?
- Buckets & objects
- Pre-signed URL
- Permissions
- Distributions
- Relation between Cloud front, S3 & glacier

## **VPC**

- VPC basics
- Public subnets & private subnets
- Network ACL's
- Difference between Network ACL & Security groups
- Route tables
- Internet gateways
- DHCP option sets
- Launch Servers with VPC.

## **IAM**

- Basics of AWS permissions.
- Roles
- Profiles
- Policies
- MFA authentication.
- User permissions
- Groups based
- AWS key & Secret Key

## **Dynamo DB**

- What is no sql technologies
- Dynamo DB capacity
- Create tables & do a sample projects.

## **Route 53**

- Hosted zone
- Types(Cname, Ip address, MX )
- Change references to meet CName

## **SES**

- Email services
- SMTP Servers

## **SQS**

- Queue creations
- Retention periods
- Dead letters

## **SNS**

- Topic
- Subscriptions
- Notification & Applications

## **Cloud Watch**

- Different Metrics
- Monitoring
- Custom metrics

## **Cloud Formation**

- Cloud formation templates
- Complete resources & explanation with sample templates

## **Cloud Front**

### **Code deploy**

- Why Code deploy
- How to apply patch with Code Deploy

## **Workspaces Glacier**

### **Automation of Jobs:**

- Jenkins

### **Provisioning tools**

- Chef basics
- Salt stack

### **Monitoring tools:**

- Check\_mk (Nagios)

### **Network Concepts:**

- Active directory
- Computer name
- Network commands

### **Languages:**

- Python
- PowerShell
- Jinja
- Java
- C#.net
- AwsCli Commands