

# Cloud Training Outline

## Introduction to Cloud

- A. What is cloud Computing
- B. What is virtualization
- C. Players involved in cloud industry
- D. How IT industry is adopting cloud
- E. Why DevOps required in automating cloud migration and deployments
- F. All the tools supporting cloud
- G. Cloud future
- H. Cloud Deploying Models
- I. Cloud Segments: Iaas, Paas, Saas
- J. Cloud Security
- K. Why AWS?

## AWS Introductions

- A. Global Infrastructure
- B. AWS services introduction
- C. Similar services from other vendors and their comparison.
- D. Enterprise security
- E. Shared responsibility model

## Identity and Access management

- A. Configuring IAM users

- B. Configuring IAM groups
- C. Creating IAM roles
- D. Configuring IAM policies
- E. Temporary Access
- F. Federated Access
- G. FAQ discussions

## **Networking**

- A. Virtual Private Cloud(VPC)
  - a. Understanding VPC
  - b. VPC subnets
  - c. Route tables
  - d. Internet Gateway
  - e. NAT gateway
  - f. VPC security
  - g. VPC Peering
- B. Route53
  - a. DNS introduction
  - b. Understanding routing algorithms
  - c. Hosted zones
- C. FAQ discussion

## **Simple Storage Service**

- A. Understanding object storage
- B. Creating S3 buckets

- C. Version control
- D. Static website hosting
- E. S3 security
- F. S3 transfer acceleration
- G. Glacier
- H. Lifecycle management
- I. FAQ discussion

## **Elastic Cloud Compute**

- A. Ec2 Introduction
- B. Elastic load balancer
- C. EBS Volumes
- D. Snapshots
- E. Key pairs
- F. Security groups
- G. AMI
- H. EFS
- I. Auto scaling
- J. FAQ discussion

## **Databases**

- A. Relational database services(RDS)
- B. DynamoDB
- C. Elastic cache

- D. Redshift
- E. FAQ discussion

## **Monitoring and audit**

- A. Cloud watch
- B. Cloud trail
- C. FAQ discussion

## **Application services**

- A. SQS
- B. SWF
- C. SNS
- D. API Gateway
- E. FAQ discussion

## **Other Services**

- A. CloudFront
- B. Storage gateways
- C. Snowball
- D. Elastic Beanstalk
- E. Opsworks
- F. CodeDeploy
- G. Elastic Transcoder
- H. Direct connect
- I. Certificate manager

## **Certification Track**

- A. Topics to focus
- B. Whitepapers discussion
- C. Links

### **NOTE:**

1. I will show how I created my website from scratch using all the above services which is fault tolerant and scalable.
2. During each session I will give At least 3 real life examples and relate them to the AWS keywords to remember the session.
3. Pay as you go model.
4. People who are very interested about AWS IOT and serverless application architecture using AWS Lambda will get extra sessions.