

# AWS

## 1.Introduction To Course

- History Of AWS
- Identity Access Management
- S3, Glacier, and Cloudfront
- Elastic Cloud Computing ( EC2 )
- Route53
- Database on AWS
- VPC
- Application Services
- Kinesis

## 2.AWS Overview

- Creating AWS Free-tier Account
- Navigating AWS Management Console
- AWS Global Infrastructure
- Security features of AWS
- Advantages & Disadvantages of AWS
- Cloud Service Model
- Cloud Deployment Model

## 3.Compute on Cloud (EC2)

- Managing the EC2 Infrastructure
- Browsing Amazon Machine Images (AMI)
- Specifying security groups and key pairs

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- Languages Customizing VM's
- Creating your own AMI
- Creating new images of running instances

#### 4.Security on Cloud (IAM)

- Controlling account security
- Managing User with Identity & Access Management (IAM)
- IAM User, group, Roles & Policies

#### 5.Provisioning Resources

- Evaluating Elastic Block Store (EBS) and instance-store root devices
- Assigning elastic IP Address
- Mapping instance types to computing needs

#### 6.Storage in Cloud

- Storing Data in the cloud (S3 & Glacier)
- Lab: Create an S3 Bucket
- Lab: S3 Version Control
- Lab: S3 Lifecycle Management & Glacier
- CloudFront CDN
- S3 Security & Encryption
- Storage Gateway
- Import Export
- S3 Transfer Acceleration

#### 7.Transparently scaling to meet load variation

- Elastic load balancer (ELB) and health check

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- Auto-scaling and Auto-scaling Group
- AWS CloudWatch
- Placement Group
- Lab

## 8. Relational Databases service (RDS)

- Creating Database Instances and scheduling for Backup
- Taking the snapshot of Database
- Create read replica RDS
- DynamoDB lab

## 9. Networking on the cloud (VPC)

- Virtual Private Cloud(VPC)
- Public and Private Subnet
- NAT Gateway
- LAB

## 10. Route 53

- Route53
- DNS Concept
- Lab

## 11. Cloud Formation

- Scripting Infrastructure
- Sample CF Demo
- Index

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