

AWS TRAINING COURSE CONTENT

1. GETTING STARTED WITH AMAZON CLOUD

- Introduction to cloud computing
- Models of cloud computing
- Setting up AWS accounts
- Evaluating Service Level Agreements (SLA)
- Various AWS Services
- AWS Management Console
- The AWS CLI - using credentials
- The AWS CLI- using roles
- AWS Global Infrastructure

2. IDENTITY ACCESS MANAGEMENT (IAM)

- Introduction to IAM
- IAM users and their access
- IAM roles and their permission
- Active Directory Federation
- Web Identity Federation
- IAM Best Practices

3. AMAZON EC2

- EC2 Overview
- Amazon Machine Images(AMI)
- AMI creation
- Security groups
- Key pairs
- Assigning elastic IP address
- Elastic IP v/s Public IP

- Bootstrap Scripts
- Overview of Amazon EBS
- EBS Volume intro
- EEBS vs Instance Store
- Upgrading EBS volume
- **Management Tools**
- CloudTrail
- CloudWatch
- CloudFormation
- Trusted Advisor

4. AMAZON SIMPLE STORAGE SERVICE(S3)

- Introduction to S3
- Creating an S3 bucket
- S3 Version Control
- S3 Lifecycle Management & Glacier
- S3 Uploading & Downloading
- S3 durability & redundancy
- Cloud front overview
- Create a CDN
- Security & Encryption
- Storage Gateway
- Import & Export using Snowball
- Cross region replication
- Static website using S3

5. ELASTIC BEANSTALK & LAMBDA

- Managing applications using Beanstalk
- Copy S3 object through Lambda

6. ELASTIC LOAD BALANCING & AUTO SCALING

- Components and types of load balancing

- Auto scaling and its benefits
- Life cycle of auto scaling
- Components and policies of auto scaling

7. DATABASE SERVICES

- Database overview
- Amazon Relational Database Service (RDS)
- AMI databases
- Amazon Redshift
- DynamoDB
- Amazon ElastiCache
- AWS Database Migration Service(DMS)
- Amazon Aurora

8. ROUTE53

- Route53 Overview
- Creating Zones
- **Understanding Routing Policies**
- Simple routing policy
- Failover routing policy
- Geolocation routing policy
- Latency routing policy
- Multivalue answer routing policy
- Weighted routing policy

9. AMAZON APPLICATION SERVICES OVERVIEW

- Simple Email Service
- Simple Queue Service
- Simple Notification Service
- Amazon SWF

10. VIRTUAL PRIVATE CLOUD (VPC) & DIRECT CONNECT

- VPC Overview

- VPC & its benefits
- VPC Security
- Default & non default VPC
- VPC NAT
- VPC ACL
- NAT vs Bastion host
- Creating Bastion Host
- Direct Connect Overview
- Building your custom VPC