

## AWS(Amazon Web Services) - Course Contents

### Introduction to Cloud Computing

- History of cloud
- Different vendors of Cloud computing
- Importance of cloud computing
- Advantages and disadvantages of cloud computing

### Various types of Cloud Computing

- Public Cloud
- Private Cloud
- Hybrid Cloud
- Community Cloud

### Cloud Service / Delivery models

- Infrastructure as a Service(IAAS)
- Platform as a Service(PAAS)
- Software as a service(SAAS)

### Introduction to AWS

- Elastic Computing
- Introduction to AWS services
- Regions and Availability Zones
- AWS Management Console

### Amazon Elastic Compute Cloud (EC2)

- Different types of instance
- Pricing model in EC2 instances
- Regions and Availability Zones
- Amazon Machine Images (AMI)
- EC2 Windows instance & Linux Instance
- Security Groups
- Key Pairs
- Volumes
- Elastic IPs

- Launching an instance
- Logging into the instance
- Deployment
- Load balancing
- Auto scaling

### Virtual Private Cloud (VPC)

- Different types of networks that can be setup in AWS
- Public subnets & private subnets
- Route tables
- CIDR
- Creating a new VPC
- ACL & Security Groups
- Creation of Internet Gateway
- Connecting to instances in the gateway

### Identity and Access management (IAM):

- Creation of user accounts in AWS
- Setting up multi-factor Authentication (MFA)
- Roles in IAM
- Groups in IAM
- AWS key & Secret Key
- Permissions for user
- Creation of custom policies
- Account settings
- Credential Report

### Elastic Load Balancer(ELB)

- Introduction to ELB
- Basic ELB concepts
- Internet facing ELB
- VPC facing ELB

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- Creating ELB
- Adding and Removing instances from ELB

### Elastic Block Storage (EBS)

- Create and Delete EBS volumes
- Attach and Detach EBS volumes
- Mount and Unmount EBS volumes
- Create and Delete Snapshots
- Create volumes from snapshots

### Relational Database Service (RDS)

- Selecting the Engine
- Configuring the Database Engine
- Creating your Database
- Setting up automatic backups
- Authorizing access to the DB via DB Security Groups

### Route 53

- Domain registration
- Domain Name System (DNS) serviceA Format
  - AAAA Format
  - CNAME Format
  - MXFormatand more

### Simple Notification Services (SNS)

- Creation of a topic
- Subscribing to topic via Email
- Setting notification for EC2 instance changes

### Simple Queue Service (SQS)

- Creation of a queue
- Sending messages to the queue
- Setting SNS to SQS
- Retrieving messages from SQS

### Simple Email Services (SES)

- Setting up email domain
- Limits of SES
- Test Email setup

### Cloud Watch

- Monitoring with Cloud watch
- Getting statistics for a specific EC2 instance
- Getting aggregated statistics
- Metrics for other AWS Services and related namespaces
- Setting up notifications

### Identity and Access Management (IAM)

- Create users and groups
- Applying policies
- Password Policy
- Roles
- Multi Factor Authentication
- Secret and Access keys
- Create custom policy

### Elastic Beanstalk

Creating environment

Application versioning

Deploying a sample app

### Simple Storage Service (S3)

- Creating and deleting buckets
- Adding objects to buckets
- Accessing objects
- Deleting objects
- Uses of S3 storage
- Permissions of S3
- Discussing lifecycles in s3
- Glacier

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