

# **AWS Architect Associate Course Content**

## ➤ **Introduction to Cloud Computing**

- Introduction to Cloud Computing
- Service Models in Cloud Computing
- Deployment Model in Cloud Computing
- Introduction to AWS
- AWS Account Creation & Free Tier Limitations Overview

## ➤ **Compute**

- EC2 Instance Launch Wizard
- EC2 Instance Type
  - \* Windows EC2
  - \* Linux EC2
- Security Group
- Webservers
  - \* Linux Webserver
- Bootstrap Script
- Elastic load Balancer
- Auto Scaling
- Status Checks
- Protect the Instance From Termination
- Scale Up and Down
- Scale Out and In
- Snapshots
  - \* Moving Snapshot to Another Region
- Creating Customized Amazon Machine Images (AMI)
- Create EC2 Instance Alarm
- Launch an instance from a launch template
- Metadata and Tags
- AWS Command Line Interface (CLI)
- Elastic Beanstalk

## ➤ **Storage**

- Elastic Block Storage (Volume)
  - \* Attach & Detach Volume
- Introduction of Simple Storage Service (S3)

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- Versioning in S3
- Static Webhosting with S3 Bucket
- Amazon S3 Storage Classes
- **Identity & Access Management**
  - Root Account VS IAM User
  - Create IAM User & Attach Policy
  - Create User Groups & Attach Policy
  - Creating Custom IAM Policies
  - IAM Password Policies
- **Amazon Virtual Private Cloud**
  - Introduction about VPC & Create VPC
  - Introduction about Subnet & Create Subnet
    - \* Public Subnet
    - \* Private Subnet
  - Internet Gateways & Route Tables
  - Bastion Hosts
  - NAT Gateways
  - Network Access Control List (NACL)
  - Ephemeral Ports
- **Route 53**
  - DNS Record Overview
  - Routing Policies
    - \* Simple Routing Policy
    - \* Latency Routing Policy
    - \* Failover Routing Policy
    - \* Weighted Routing Policy
    - \* Geolocation Routing Policy
  - Hosting Sample Website and Configuring Policies
- **Database**
  - Introduction of Database
  - Types of AWS Databases
  - Launching a RDS Instances (MySQL)
  - Multi Availability Zone For RDS Instances

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- Read replicas For RDS Instances
- **Security Options**
  - Cloud Trails
  - Cloud Front (S3 Transfer Acceleration)
- **Application Service**
  - Simple Queue Service
  - AWS Calculator
- **Monitoring Tools**
  - Cloud Watch
- **Migration and Transfer**
  - AWS Snow (Theory)