

- Introduction to Cloud Computing
- Introduction to AWS
- Elastic Compute Cloud
- Virtual Private Cloud
- Simple Storage Service
- Elastic Block Store
- Elastic Load Balancer
- Relational Database Service
- Identity and Access Management
- Route53
- Cloud Watch and Simple Notification Service
- AWS Cloud Formation
- Auto Scaling and Launch Configuration
- AWS DynamoDB Overview
- AWS Calculator
- AWS Cloudtrail
- AWS Security Advisor
- Architecting on AWS Demo
- AWS Solution Architect certification walkthrough

Introduction to Cloud Computing

- What is Cloud Computing
- Deployment models of Cloud Computing
- Service Models of Cloud Computing
- Benefits of Cloud Computing

Introduction to AWS

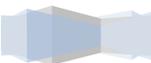
- Short history of AWS
- AWS platform with Core services
- Overview of AWS certifications

Elastic Compute Cloud

- On Demand, Spot and Reserved instances
- Launching Linux and Windows EC2 instance
- Setting up the security groups
- Private IP, Public IP, Elastic IP
- Logging into instances Linux and Windows
- Creating AMI, Copying AMI
- Tagging EC2 instances, Bootstrapping

Virtual Private Cloud

- Using VPC wizard, setup different network types
- Creating new VPC
- Managing NACL and Security groups
- Public and private subnets
- Route tables, IGW



Simple Storage Service

- Managing S3 buckets
- Adding objects to buckets
- Uses of S3 storage
- Permissions of S3
- Versioning and Life cycles in S3
- Data archiving and backups in Glacier

Elastic Block Store

- Creating and Deleting Volumes
- Attaching and detaching volumes
- Creating snapshots
- Increasing volume size
- Mounting and un-mounting volumes

Elastic Load Balancer

- Creating load balancer
- Internal and external load balancer
- Load balancing Protocols
- Configuring health check
- Attaching instances to load balancer
- Troubleshooting “Out of Service”

Relational Database Service

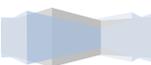
- Creating and managing RDS instances
- Connecting to RDS instances
- Creating and restoring snapshots
- RDS security groups, parameter groups, Subnet groups
- What is Multi-AZ

Identity and Access Management

- Creating users in IAM
- Setting up MFA
- Creating groups, policies and roles
- Access keys and secret keys
- Delegation of permissions to users
- Policy simulator

AWS Route53

- Managing hosted zones
- Creating record sets
- Types of routing policies
- Creating health checks



Cloud Watch and Simple Notification Service

- Monitoring AWS service health dashboard
- Different services under cloud watch and there metrics
- Setting up notifications
- Creation of topics
- Subscribing to topics
- Setting notification for EC2

AWS auto scaling

- Configuring Launch configuration
- Configuring auto scaling policies
- Using auto scaling with Load balancer
- Knowing elasticity, scalability, HA, DR concepts

Demo – Architecting on AWS

- Short live demo of how to architect on AWS using its different services

AWS CloudFormation

- Creating template, knowing its basic building blocks
- Executing stack

AWS CloudTrail

- Understanding API call logs and monitoring

AWS Calculator

- Estimating the monthly cost using calculator

