

Cloud Learning - One Platform for Cloud Queries

AWS Solution Architect Associate (Certification Oriented)

Introduction to Cloud Computing

Introduction to Cloud Computing, PPT Shown

Course Content Discussion

Cloud Benefits (Pay per use, No upfront fee, Flexible, Elasticity, Agile, Available on any platform)

Certification Details

How to create a free tier account

AWS Architecture, What is Region, Availability zone (Data Center), Edge locations

Introduction to AWS Console

AMAZON EC2 (Server Management) and EBS (Server Storage)

How to launch a Linux Server, Connect it via Putty and Putty Gen,

Basic linux commands - sudo su, apt-get update, yum update, ls, pwd, clear, cd /, cd., rm, sudo vim etc.

How to host a Sample website on it using Apache Server

How to increase Volume Size, how to create Snapshot or backup

What is AMI (Amazon Machine Image), how to create image of a server

EC2 types, Pricing model (Reserved, On demand, Spot Instance)

What is Security Group, Volumes, Elastic IP address, Public IP address

How to Launch windows server

How to add / remove disk to a server

how to take backup / restore of a server, Life Cycle Manager

Saving Plans, Launch Template

Load Balancer and Auto Scaling (Keep your website / Applications always running)

Milestone - Setup one website with load balancer and autoscaling

How to create a Load Balancer (Application Load Balancer, Network Load Balancer)

Its Load Balancer Detail, monitoring etc.

How to setup Launch Template

How to create a Target group.

How to create an AMI for configuration

How to setup Auto Scaling group

How to setup Auto Scaling policies and attach them with Load balancer
Route53 (DNS Services for Website Hosting)
What is Hosted Zone, Create Hosted Zone (Your customized Domain)
Routing Policies - Simple, Weighted, Failover, Latency, Geolocataion based etc.
Different Records type - A Record, Alias, MX Records etc.
How to create Health Check IP based and URL based
How to purchase Domain
Intro to Traffic Policies, How to attach it with your hosted zone
How to map custom domain with server or load balancer
S3 (Simple Storage Service) - Object based Storage
Storage type - Standard, RRS (Previous Generation), Infrequent Access, Glacier, IA - One Zone
How to create a Bucket its properties
How to upload and delete objects
Bucket properties, Versioning, Log setup, Event Setup
How to make bucket object public
How to host a Static Website in Bucket
Cross Region replication
Bucket Policy
Life Cycle Policy
Query with S3 Select - create a csv file and test
Object Lock
Transfer Acceleration
VPC (Virtual Private Cloud)
Create VPC manually - Public Subnet, Private Subnet
Lanuch couple of instances in VPC, Windows Server Unix
Checked Internet connectivity of Public Subnet
access private subnet from Public subnet server (Bastion Server / Jump server)
Understood VPC, Subnet, Route Table, Internet Gateway functions, Nat Gateway, Egress Internet Gateway
Test Lab
VPC flow Logs

Setup VPC from Wizard panel
checked connectivity between different VPC
Created VPN
Transit Gateway

RDS (Relational Database System) (Database Solutions)

What databases available in RDS
How to create and connect MySql database
How to do backup and restore MySql database
How to do automatic maintenance for minor patch upgrdes
What Dynamo DB or No SQL database
What is Read Replica in RDS and how it useful
What is Elasti Cache Service (Memcached and Redis)
Example with test Redis and MemCache Servers - Elasticache Server

IAM (Identity and Access Management)

How to create User, Group, Roles
AWS Cli Access Programmatic Access, Console Access - aws configure
What is Policies
How to applies policies for Users, Group and Roles
How to enable MFA
How to use IAM Policies, Customized Policies
How to create customized account link
How to setup password polices for your organization
How to fetch reports

Application Services - Overview

Elastic Bean Stalk
Cloud Front - Distribution, Origin Source (Website Related, Reduce Latency through Edge Locations)
Cloud Formation Overview
SNS (Simple Notification Service) - Transactional Message, SMS Notificaiton, To subscription topic is must
SES (Simple Email Service) - Bulk Marketing, Promotioanal Messages, Subscription is not must
Cloud Trail - Log every event in your AWS account

SQS Overview (Simple Queue Service)
SWF (Simple Workflow Service)
Kinesis Overview
Key Management Store
Lambda Overview
Pricing, Calculator
Snowball
Cloud Trail
Storage Gateway
Direct Connect
Best practices for HA, Performance
Mock Test paper

