
Course Content for AWS Training

Introduction

- Introduction to cloud computing
- Essential Characteristics of Cloud Computing
- Service Models in Cloud computing
- SaaS, PaaS, IaS
- Introduction to AWS
- AWS Architecture and Terminology, AWS Regions and Availability Zones

AWS Elastic Compute Cloud- (EC2)

- EC2 Instance Types
- Generating custom Public Key and Private keys for EC2 instances
- Security groups
- Volumes and Snapshots
- Creating customized Amazon Machine Images (AMIs)
- User Data and Metadata
- EC2 Instance Pricing
- Amazon Elastic Block Store (EBS)
- Placement Groups
- ElasticLoad Balancers & Health Checks
- Auto Scaling Groups
- EBS Snapshots
- EC2 Spot Pricing
- Elastic Load Balancing

Storage (S3)

- What is Simple Storage Service (S3)
- Storage Classes
- Versioning
- Cross-region replication
- Life Cycle Management

aws Syllabus

- Security & Encryption
- Static Webhosting with S3 bucket
- Events configuration on S3 buckets
- Enabling cross-account access for S3
- Storage Gateway

Amazon Virtual Private Cloud (VPC)

- Amazon VPC Overview
- Amazon VPC
- IP Addresses
- Subnets
- Route Tables & IGW
- VPC Peering
- Flow log creation
- NAT Devices
- Security Groups
- Network ACL's
- VPC Best Practices
- Practice Assignment: Designing a Custom VPC

Identity and Access Management (IAM)

- IAM Overview
- IAM Policies
- IAM Users
- IAM Groups
- IAM Roles
- Multi-FactorAuthentication for Users
- IAM Password Policies
- Creating Customer Managed Policies.

Route53

- DNS Records overview
- Routing Policies

- Hosting sample Website and configuring Policies
- Simple Routing Policy
- Latency Routing Policy
- Failover Routing Policy
- Weighted Routing Policy
- Geolocation Routing Policy.

Databases

- What is RDS Instance (MySQL, MSSQL & Aurora)
- Multi-AZ & Read Replicas for RDS instances
- DynamoDB
- Redshift

CloudWatch (Monitoring Service)

- Default Metrics
- Custom Metrics in CloudWatch
- Push logs to CW
- Creating Dashboards
- CW Alarms to Monitor Amazon EC2 Instances & EBS.
- CW Alarms to Monitor the Elastic Load Balancer.
- CW Alarms to Monitor the RDS.

Application Services

- Simple Email Service
- Simple Queue Service
- Simple Workflow Service
- Simple Notification Service
- SMS – Server Migration Service
- Migrating server from on-premises to cloud
- AWS TCO Calculator and Simple Monthly calculator
- Trusted Advisor

DevOps Tools Overview

- What is DevOps in Cloud
- Code Pipeline
- Code Commit, Code Build
- Code Deploy

Cloud Formation

- What is IaaS
- writing CloudFormation template
- AWS CloudFormation stack
- CloudFormation access control.

Security Services

- CloudTrail
- AWS Config
- Key Management Services
- AWS Certificate Manager
- AWS Inspector
- AWS Trusted Advisor
- Content Delivery Networks/CloudFront

Troubleshooting

- EC2 Troubleshooting Scenarios
- VPC Troubleshooting Scenarios
- ELB Troubleshooting Scenarios
- Auto Scaling Troubleshooting Scenarios
- LAB- Troubleshooting Connectivity Issues

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