

Amazon Web Services Course

- I. Introduction to Cloud Computing:
 - ✓ Datacenter Overview
 - ✓ Virtualization
 - ✓ Cloud Computing
 - Public Cloud
 - Private Cloud
 - Hybrid Cloud
 - ✓ Cloud Deployment Models
 - IaaS
 - PaaS
 - SaaS

- II. Introduction to Amazon Web Services:
 - ✓ History
 - ✓ AWS Global Presence (Regions & Availability Zones)
 - ✓ Gartner Analysis and Market Leaders
 - ✓ Management Console & Subscription
 - ✓ Service Catalog and Market Place
 - ✓ Free Tier Limitations
 - ✓ AWS Security & Compliance
 - ✓ AWS Certifications Overview

- III. Elastic Compute Cloud (EC2)
 - ✓ EC2 Overview
 - ✓ Different Instance Types and Different Models
 - ✓ Amazon Machine Image (AMI)
 - ✓ Elastic Block Storage (EBS) and Ephemeral Storage
 - ✓ Placement Groups
 - ✓ Elastic Load Balancer (ELB)
 - ✓ Auto Scaling
 - ✓ Elastic IPs
 - ✓ Tags

Amazon Web Services Course

IV. Virtual Private Cloud (VPC)

- ✓ Overview
- ✓ Subnets
- ✓ Network ACLs
- ✓ Security Groups
- ✓ Route Tables
- ✓ Internet Gateways
- ✓ DHCP Option Set
- ✓ VPC Peering

V. Storage Services

- ✓ Simple Storage Service (S3)
 - Buckets and Objects
 - Version Control
 - Lifecycle Management
- ✓ Glacier
- ✓ Storage Gateway
- ✓ Snowball
- ✓ Snow Mobile

VI. Database Services

- ✓ Relational Database Service (RDS)
 - SQL vs NoSQL
 - Multi-AZ RDS
 - Backup RDS
- ✓ DynamoDB
- ✓ RedShift
- ✓ ElastiCache

VII. Other Network Services

- ✓ Route53
 - Overview
 - Hosted Zones
 - DNS Management

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- Traffic Flow Management
- Availability monitoring
- Domain Registration
- ✓ Direct Connect
- ✓ CloudFront
 - Content Delivery Network
 - Static Vs Dynamic Content
 - Edge Locations

VIII. Security Services

- ✓ Identity and Access Management
 - User Permissions
 - Groups
 - Roles
 - Policies
 - Multi Factor Authentication (MFA)
- ✓ Web Authentication Firewall (WAF)
- ✓ Inspector
- ✓ Certification Manager

IX. Messaging Services

- ✓ Simple Queue Service (SQS)
- ✓ Simple Messaging Service(SMS)
- ✓ Simple Email Service(SES)
- ✓ Simple Work Flow (SWF)

X. Management and Reporting Tools

- ✓ Cloud Watch
- ✓ Cloud Trail
- ✓ Config
- ✓ Opswork
- ✓ Trusted Advisor
- ✓ WorkMail
- ✓ WorkDocs