

Amazon Web Services Training -55 hours

Lesson 1: Overview on Operating System

Topics:

- Linux, Windows and other operating Systems

Lesson 2: Overview on Virtualization

Topics:

- What is Virtualization?
- Hypervisors and Types
- Different Virtualization Products

Lesson 3: Overview on Networking

Topics:

- What is networking?
- What is IP Address?
- What is private and public IP Address?
- Domain Name Service(DNS)

Lesson 4: Overview on Cloud Computing

Topics:

- Evaluation of Cloud Computing
- Private Clouds
- Public Clouds
- Domain Name Service(DNS)

Lesson 5: AWS Overview

Topics:

- Description of AWS
- History and Evaluation of AWS
- Overview of AWS Products & Services

Lesson 6: Identity & Access Management

Topics:

- IAM Overview
- IAM Policies
- IAM Users
- IAM Groups
- IAM Roles





- Practical
 - Creating an IAM Policy
 - Creating an IAM User
 - Creating an IAM Group
 - Creating an IAM Role

Lesson 7: Amazon Virtual Private Cloud (VPC)

Topics:

- Amazon VPC Overview
- Amazon VPC
- IP Addresses
- Subnets
- Internet Gateway
- Route Tables
- NAT Devices
- Security Groups
- Network ACL's
- Internet Gateway
- Route Tables
- Practical
 - ✓ Creating a custom VPC
 - ✓ Creating an Elastic IP Address
 - ✓ Creating Subnets

Lesson 8: Elastic Cloud Compute - EC2

Topics:

- Amazon EC2 Overview
- Amazon Machine Images(AMI)
- EC2 Instance Types
- Amazon Elastic Block Store(EBS)
- EBS Snapshots
- EC2 Instance Pricing
- Elastic Load Balancing(ELB)



- Auto Scaling
- AWS Lambda
- AWS Elastic Beanstalk
- AWS Command Line Interface
- Practice Assignment: Configure ELB not started
- Practical
 - ✓ Launch and connect to an EC2 Linux instance
 - ✓ Launch and connect to an EC2 Windows instance
 - ✓ Create an AMI
 - ✓ EC2 Instance Types

Lesson 9: Amazon Simple Storage Service (S3)

Topics:

- Amazon S3 Overview
- S3 Buckets
- Version Control
- S3 Lifecycle Management
- Cloud Front & CDNs
- Security & Encryption
- Import/Export & Snowball
- Practical
 - ✓ Create and access an Amazon S3 Bucket
 - ✓ Amazon S3 Version Control
 - ✓ Amazon S3 Lifecycle Management

Lesson 10: Routes 53

Topics:

- Amazon Route 53 Overview
- Amazon Route53 & DNS
- Route53 Routing Policies
- Practical
 - ✓ Route 53 Hosted Zones Demo

Lesson 11: Databases

Topics:

- Databases Overview
- Amazon Relational Database Service(RDS)
- AMI Databases



- Amazon DynamoDB
- Amazon RedShift
- Amazon Elastic Cache
- Amazon Aurora
- AWS Database Migration Service
- Practical
 - ✓ Amazon RDS
 - ✓ Launching databases from an AMI
 - ✓ Amazon DynamoDB

Lesson 12: Application Services

Topics:

- Simple Queue Service(SQS)
- Simple Workflow Service(SWF)
- Simple Notification Service(SNS)
- Elastic Transcoder
- Practical
 - ✓ Amazon SNS

Lesson 13: Security Practices for Optimum Cloud Deployment

Topics:

- AWS Shared Responsibility Model
- AWS Platform Compliance
- AWS Security Attribute
- AWS CloudWatch
- Practical
 - ✓ Amazon CloudWatch

Lesson 14: Disaster Recovery

Topics:

- Overview of Disaster Recovery
- Using AWS products for Disaster Recovery

Lesson 15: Private Cloud

Topics:

- Private Cloud with OpenStack or CloudStack

