

AWS COURSE CONTENT

Module-1: Linux Basics

- ❖ Linux File System Structure
- ❖ Basic Linux/Unix commands
- ❖ Editors like nano, vi, vim
- ❖ Start and Stop services
- ❖ Packages installation
- ❖ User Management
- ❖ UMASK
- ❖ Shell scripting

Module-2: Introduction To Cloud Computing

- ❖ Cloud Computing Introduction
- ❖ Cloud Service And Deployment Models
- ❖ What is AWS?
- ❖ Virtualization in AWS
- ❖ AWS Account Creation
- ❖ Understanding AWS Regions and Availability Zones

Module-3: Elastic Compute Cloud

- ❖ Introduction to EC2
- ❖ Pre-EC2
- ❖ Instance Tenancy, Reserved and Spot Instances



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- ❖ EC2 Instance Types
- ❖ Launching An Instance
- ❖ What is an AMI?
- ❖ Instance Backup & Copy the Images into required regions
- ❖ Instance Termination

Module-4: Elastic Block Storage

- ❖ Introduction to EBS
- ❖ EBS Concepts
- ❖ EBS Snapshots
- ❖ Creating and Mounting an EBS Volume
- ❖ AWS EBS Multi-Attach

Module-5: Elastic File Storage

- ❖ Introduction to EFS
- ❖ Creating and Mounting an EFS
- ❖ Pricing and Design Patterns

Module-6: Elastic Load Balancer

- ❖ Introduction to ELB
- ❖ Load Balancer Architecture
- ❖ Importance of Load Balancer
- ❖ Creating Classic, Application and network Load balancers
- ❖ Cross-zone Load balancing



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Module-7: Auto Scaling Group

- ❖ Introduction to Auto Scaling Group
- ❖ Auto scaling group architecture
- ❖ Lifecycle of Auto Scaling
- ❖ Components of Auto Scaling
- ❖ Scaling Policy
- ❖ Scaleup and scale down
- ❖ Horizontal And Vertical Scalling
- ❖ Creating Auto Scaling Groups
- ❖ Integrating Auto Scaling Group to the ELB

Module-8: Route 53

- ❖ Pre-Route 53
- ❖ Hosting our website and DNS Literature
- ❖ Routing Policy
- ❖ Free nom: Getting Free Domain Name
- ❖ Name servers
- ❖ Use Route 53 to Route Traffic to ELB
- ❖ AWS ELB Weighted Routing

Module-9: Virtual Private Cloud

- ❖ Amazon VPC Overview
- ❖ Creating IP Address and CIDR Notations
- ❖ Creating of VPC
- ❖ Components of VPC
- ❖ Internet Gateways and NAT Gateways



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- ❖ Types of VPC and subnet Overview
- ❖ Security in VPC
- ❖ Creation of NAT Gateway
- ❖ VPC Architecture
- ❖ VPC Peering and VPC Endpoints

Module-10: Simple Storage Service (S3)

- ❖ Pre-S3: Online Cloud Storage
- ❖ Introduction
- ❖ Understanding Examples and Creating S3 Bucket
- ❖ Storage Hierarchy
- ❖ Objects
- ❖ Lifecycle Management and Storage Classes
- ❖ Storage Class Analysis
- ❖ Cross-Region Replication
- ❖ Data Encryption and Server Access Logging
- ❖ Website Hosting
- ❖ S3 Access Point and Connecting Using VPC End Point

Module-11: Relational Data Service

- ❖ Introduction to RDS
- ❖ Features of Amazon RDS
- ❖ Read Replica



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- ❖ Reserved DB Instances, Pricing and Designs
- ❖ Introduction to DynamoDB
- ❖ Core Components of DynamoDB
- ❖ Primary Key
- ❖ Secondary Indexes
- ❖ DynamoDB Streams
- ❖ DynamoDB Pricing and Designs
- ❖ DynamoDB Table and Operations

Module-12: Identity Access Management

- ❖ Introduction to IAM
- ❖ Amazon Resources Names
- ❖ IAM Features
- ❖ Multi-Factor Authentication
- ❖ IAM Users and Groups
- ❖ IAM Policies
- ❖ IAM Permissions
- ❖ IAM Roles

Module-13: CloudWatch

- ❖ Introduction to CloudWatch
- ❖ CloudWatch Metrics and Namespaces
- ❖ CloudWatch Architecture
- ❖ CloudWatch Alarms
- ❖ CloudWatch Logs
- ❖ CloudWatch Pricing and Design Patterns



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Module-14: Simple Notification Service

- ❖ Introduction to SNS
- ❖ Create a SNS

Module-15: Simple Email Service

- ❖ Introduction of SES
- ❖ Create a SES

Module-16: Simple Queue Services

- ❖ Introduction of SQS
- ❖ Create a SES

Module-17: Lamda

- ❖ Serverless Computing
- ❖ Event-Driven Architecture
- ❖ Function Execution
- ❖ Event Sourcing
- ❖ Lambda Functions

Module – 18: CloudTrail

- ❖ Use Case: Compliance and audit logging.
- ❖ Pricing: Free for last 90 days of activity
- ❖ additional charges for long-term storage.
- ❖ Hands-on: Enable CloudTrail logs.

Module – 19: Real-time project

- ❖ Projects with python source code along with database



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