TECH DECODER

AWS CLOUD COMPUTING

(45 Days)

Syllabus of AWS Cloud Computing (45 Days)

1. Introduction

- AWS Overview
- Introduction tcloud Computing
- AWS Architecture
  - Region
  - Availability Zone
  - Edge Locations
  - Scope of Services
- AWS Account Creation Free-Tier

2. LINUX Basics

- Linux Introduction for AWS
- SSH Configuration and SSH Access
- Web Server installation and Configuration on Linux

3. Networking In AWS

- Introduction Amazon Virtual Private Cloud (VPC)
- Subnet
- Routing
- Internet Gateway
- Public, Private and Hybrid Subnet
- Network Access Control List (NACL)
- Security Groups
- VPC Peering

4. AWS Computing

- Introduction Amazon Elastic Compute Cloud
- Amazon Machine Image (AMI)
- Keys Pairs
- Instance Metadata Service
- AWS Lamda
- AWS Elastic Container Services (ECS)

5. Storage

- AWS Storage Options
- Object vs Block Storage
- Amazon Simple Storage Services (S3)
  - Buckets & Objects
  - Buckets Security, Resource Policies
- Amazon Glacier
- Storage Volumes
- Elastic Block Store (EBS)
  - Types of EBS Volumes
  - Mounting EBS Volumes on Linux
  - EBS Snapshots

6. Database

- Amazon Database Options
- Introduction tRelational Data Services (RDS)
- DynamoDB
- Redshift
- Elastic Cache

7. High Availability AWS

- Introduction tElastic Load Balancing
- Application Load Balancer
- Network Load Balancer
- AutScaling Group

8. Identity and Access Management (LAM)

- Introduction tIdentity and Access
- Create User and Group
- Policies
- Managing Access Keys]
- Understanding Roles
- Managing and MFA Device

9. Developer Tools

- AWS Code Commit
- AWS Code Pipeline
- AWS Code Build
- AWS Code Deploy

10. Services

- Amazon Simple Queue Service (SQS)
- Amazon Simple Notification Services (SNS)
- Amazon Simple Email Service

11. Management Tools

- Monitoring With Amazone CloudWatch
- Activity Tracking with AWS CloudTrails
- AWS Trusted Advisor
- AWS Key Management Services (KMS)