



AWS COURSE SYLLABUS 2022

Linux + AWS + Devops

Syllabus I : AWS Solution Architect-Associate Training

(including Exam Preparation and Lab)

BASICS OF NETWORKING

- ☐ IP and Its types
- ☐ OSI Model
- ☐ TCP/IP model
- ☐ Internet, Intranet, Ethernet
- ☐ HTTP Error
- ☐ IPV4 and IPV6
- ☐ Router
- ☐ Firewalls
- ☐ Multitasking and multilogin



BASICS OF LINUX

- ☐ Basics command
- ☐ Operating system
- ☐ What is kernel
- ☐ Different types of shell
- ☐ Types of users
- ☐ How we can access in Linux
- ☐ Packet forwarding
- ☐ Cronjob
- ☐ Giving Root level permission to Normal user
- ☐ How to change default Port of SSh-22
- ☐ Enabling root login in Linux
- ☐ Changing shell from one to another

FUNDAMENTALS OF CLOUD COMPUTING

- ☐ Introduction to Cloud Computing
- ☐ What Is Cloud Computing?
- ☐ Types of cloud model
 1. IAAS- infrastructure-as-a-service
 2. PAAS- platform-as-a-service
 3. SAAS- software-as-a-service



INFRASTRUCTURE

CHAPTER 1- INTRODUCTION TO AWS

- ☐ **Introduction to Amazon Web Services**
- ☐ **AWS Global Infrastructure**
- ☐ **How to create AWS account**
- ☐ **How to set AWS billing budget**
- ☐ **What is Support system**
- ☐ **What is Region and Availability zone**
- ☐ **AWS services.**

CHAPTER 2- AWS IDENTITY AND ACCESS MANAGEMENT (IAM)

- ☐ **Introduction**
- ☐ **Types of users in IAM**
- ☐ **Authentication**
- ☐ **Authorization**
- ☐ **Key method**
- ☐ **Role method**
- ☐ **How to access CLI and GUI**



CHAPTER 3- AMAZON SIMPLE STORAGE SERVICE (AMAZON S3)

- ☐ **Introduction**
- ☐ **Amazon S3 service basics**
- ☐ **Buckets**
- ☐ **Data Consistency Model**
- ☐ **Versioning**
- ☐ **Amazon S3 Advanced features**
- ☐ **Amazon S3 Storage Tiers/Classes**
- ☐ **Life cycle policy**
- ☐ **Cross region replication**
- ☐ **Security**

CHAPTER 4- AMAZON ELASTIC COMPUTE CLOUD (AMAZON EC2)

- ☐ **Introduction**
- ☐ **Ec2- elastic compute cloud**
- ☐ **Elastic IP**
- ☐ **Public IP**
- ☐ **Private IP**
- ☐ **Different different Operation System**
- ☐ **EBS- Elastic block storage**
- ☐ **EFS- Elastic file system**
- ☐ **Bootstrapping**



CHAPTER 5- AMAZON VIRTUAL PRIVATE CLOUD (AMAZON VPC)

- ☐ Introduction
- ☐ Subnets
- ☐ Route table
- ☐ Internet Gateway
- ☐ Nat Gateway
- ☐ Dynamic host configuration protocol (DHCP)
- ☐ Elastic IP addresses (EIPs)
- ☐ Elastic Network interfaces (ENIs)
- ☐ VPC Peering
- ☐ Security group
- ☐ Network access control list (NACL)

CHAPTER 6- ELASTIC LOAD BALANCING

- ☐ Introduction
- ☐ Application load Balancer
- ☐ Network Load Balancer
- ☐ Gateway Load Balancer
- ☐ Classic Load Balancer
- ☐ Understanding High Availability



CHAPTER 7- AUTOSCALING GROUP

- ☐ Introduction
- ☐ Features
- ☐ Advantage
- ☐ Manual Scaling
- ☐ Dynamic Scaling

CHAPTER 8- DOMAIN NAME SYSTEM (DNS) AND ROUTE 53

- ☐ Introduction
- ☐ DNS Resolution
- ☐ Route 53
- ☐ Root level domain
- ☐ Basic networking command

CHAPTER 9- CLOUD WATCH

- ☐ Introduction
- ☐ Understanding CloudWatch
- ☐ How to monitoring



CHAPTER 10- AWS LAMBDA

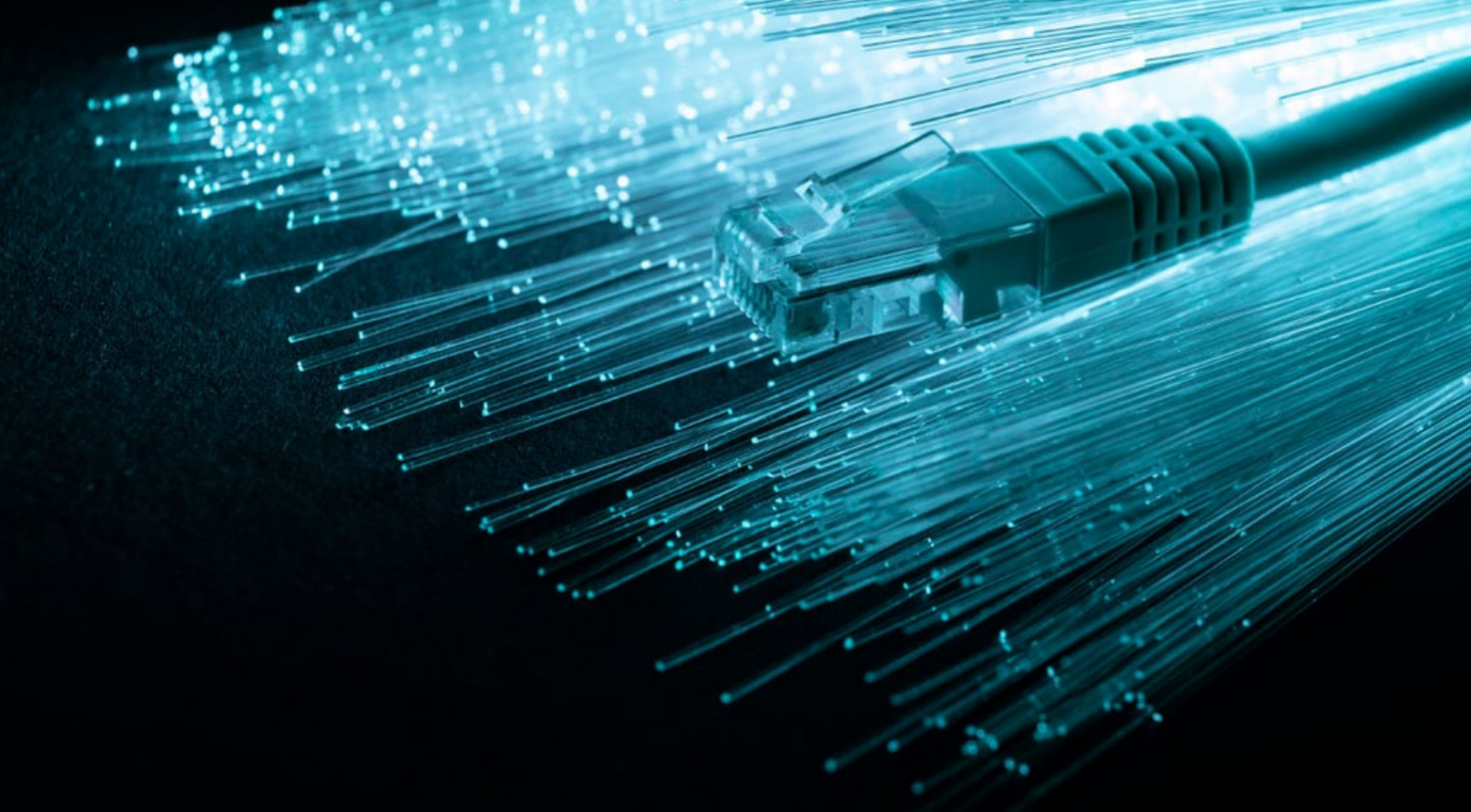
- ☐ Introduction
- ☐ Getting started with AWS Lambda
- ☐ How to create function
- ☐ Triggering

CHAPTER 11- AWS ELASTIC BEANSTALK

- ☐ Introduction
- ☐ Learn about platform
- ☐ Manage application

CHAPTER 12- CLOUD FORMATION

- ☐ Introduction
- ☐ Create Instance
- ☐ VPC Stack formation



CHAPTER 13- RELATIONAL DATA BASE (RDS)

- ☐ **Introduction to Relational Databases**
- ☐ **What is SQL and NOSQL**
- ☐ **Creating our first database structure in MySQL**

CHAPTER 14- CLOUD FRONT

- ☐ **Introduction**
- ☐ **What is content delivery**
- ☐ **With CDN And Without CDN**



DEVOPS

- **Chapter 1 – Git & GitHub**
- **Chapter 2 – CI/CD pipeline**
- **Chapter 3 – Jenkins**
- **Chapter 4 – Maven**
- **Chapter 5 – Ansible**
- **Chapter 6 – Kubernetes**
- **Chapter 7 – Docker**

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