ExLearn Technologies

We are Certified!

CLOUD TRAINING
+
INTERNSHIP PROGRAM

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EXLEARN
TECHNOLOGIES

FUNDAMENTALS OF COMPUTER NETWORKING

1. **Introduction to Networking**

   Importance of Networking, How Internet works?

2. **Inter-Networking Devices and Network Topologies**

   Working of Hub, Switch, and Router.
   Architecture of Ring, Mesh, Star topologies.

3. **OSI Layer and TCP/IP Model**

   Working of 7 Layers of OSI Model and TCP/IP Model.

4. **Ports and Protocols**

   What are Ports and Protocols with real time examples?

5. **Physical and Logical Addressing**

   Working with IPv4 addressing and MAC Addressing.

6. **Subnetting**

   Division of Logical Addressing and different methods.

EXLEARN TECHNOLOGIES

LINUX OPERATING SYSTEM

1. **Introduction to Linux**

   Introduction to Different OS, Intro to Unix /Linux OS, Architecture of Unix.

2. **Linux OS Installation**

   Virtualization and Linux OS Installation.

3. **Linux File System Structure**

   Overview of Linux File system.

4. **Basic Commands**

   Working with basic commands and filetypes in Linux.

5. **Working with Files And Directories**

   Managing Files and Directories using Commands.

6. **Working with File editors**

   Different types of editors in Linux.(#vi, #vim, #nano).

6. **Managing the File Content and Filter Commands**

   Commands to manage file content. Use of multiple Filter Commands.

6. **Permissions in Linux**

   Managing the File permissions in Linux along with ownership Permissions

7. **User and Group Management**

   Creating Local users and groups,.

8. ## Package Management

   Installing and updating packages, Different package handlers in Linux.

9. ## Process and Service Management

   Managing the multiple Services.

10. ## Linux Networking

    Working with multiple networking commands like ping, traceroute, dig,nslookup etc.

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AMAZON WEB SERVICES

OBJECTIVES

- Compute Service – Elastic Compute Cloud (EC2)
- Storage Service - Simple Storage Service (S3) and Elastic Block Storage (EBS)
- Database Service – Relational Database Service (RDS)
- Network Service – Virtual Private Cloud (VPC)
- Identity Compliance – Identity and Access Management (IAM)
- DNS Service – Route53 (R53)
- Monitoring Service – Cloud Watch (CW)

INTRODUCTION TO CLOUD COMPUTING

DEPLOYMENT MODELS:

- Public Cloud
- Private Cloud
- Hybrid Cloud

SERVICE MODELS :

- SaaS (Software as a Service)
- PaaS (Platform as a Service)
- IaaS (Infrastructure as a Service)

INTRODUCTION TO AWS :

- AWS Global Infrastructure
- AWS Account creation
- AWS Free tier overview

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TECHNOLOGIES

IDENTITY ACCESS MANAGEMENT (IAM)

- Root User
- IAM user
- AWS Managed Policies
- Customer Managed Policies
- IAM Roles

AMAZON ELASTIC COMPUTE CLOUD (AMAZON EC2)

- EC2 Introduction
- EC2 Instance Types
- Amazon Machine Image (AMI)
- Elastic Block Storage (EBS)
- Security Groups and Keys Pairs
- Launching a Windows Instance
- Launching a Linux Instance
- Elastic Load Balancer

AMAZON SIMPLE STORAGE SERVICE (S3)

- S3 Introduction
- Storage Classes
- Glacier
- Versioning

PROJECT - S3 STATIC WEBSITE HOSTING

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AMAZON VIRTUAL PRIVATE CLOD (VPC)

- VPC Basics
- Subnets
- NAT
- Route Table
- Internet gateway
- Configuring NAT gateway
- Creating custom VPC with custom Subnets

AMAZON ROUTE53 AND DOMAIN NAME SYSTEM(DNS)

- What is DNS
- How DNS works
- DNS Record types
- Hosted Zone and NS

DATABASES

- Databases introduction
- Traditional DB Vs EC2 hosted Database Vs RDS
- Launching a MSSQL RDS Instances
- Multi-AZ Use cases and Configuration
- Read Replicas Use cases and Configuration
- Amazon Aurora Infrastructure

AWS PROJECT