
CTR-701 AWS Practical Introductions

Course Details:

1. AWS Basics

Introduction to Cloud Computing

- What is Cloud Computing?
- Benefits of Cloud Computing
- Types of Cloud Computing: Public, Private, and Hybrid

Introduction to AWS

- Overview of AWS
- AWS Global Infrastructure
- AWS Management Console

AWS Identity and Access Management (IAM)

- Users, Groups, and Roles
- IAM Policies
- Multi-Factor Authentication (MFA)
- Best Practices for IAM

2. AWS Basic Services

Amazon EC2 (Elastic Compute Cloud)

- Overview of EC2
- EC2 Instance Types
- Launching and Managing Instances
- EC2 Pricing and Billing

Amazon S3 (Simple Storage Service)

- Overview of S3
- S3 Buckets and Objects
- S3 Storage Classes
- S3 Security and Access Control

AWS RDS (Relational Database Service)

- Overview of RDS
- Database Engines Supported by RDS
- Creating and Managing RDS Instances
- RDS Backup and Recovery

AWS Lambda

- Overview of AWS Lambda
- Creating and Deploying Lambda Functions
- Lambda Triggers and Event Sources
- Lambda Pricing

3. AWS Networking

VPC (Virtual Private Cloud)

- Overview of VPC
- Subnets, Route Tables, and Gateways
- Security Groups and Network ACLs
- VPC Peering and VPN

Elastic Load Balancing (ELB) and Auto Scaling

- Overview of ELB
- Types of Load Balancers
- Configuring Auto Scaling
- Auto Scaling Policies

AWS Route 53

- Overview of Route 53
- DNS Management
- Domain Registration
- Routing Policies

4. AWS Cost Management

AWS Pricing and Billing

- Understanding AWS Pricing Models
- Cost and Usage Reports
- AWS Free Tier

AWS Cost Management Tools

- AWS Budgets
- AWS Cost Explorer
- AWS Trusted Advisor
- Best Practices for Cost Management

5. AWS AI Services Introduction

Introduction to AWS AI Services

- Overview of AWS AI and Machine Learning Services
- Use Cases of AWS AI Services

Amazon Rekognition

- Overview of Amazon Rekognition
- Image and Video Analysis
- Use Cases and Applications

Amazon Lex

- Overview of Amazon Lex
- Building Chatbots with Amazon Lex
- Integration with Other AWS Services

Amazon Polly

- Overview of Amazon Polly
- Text-to-Speech Conversion
- Customizing Speech Output

Amazon SageMaker

- Overview of Amazon SageMaker
- Building, Training, and Deploying Machine Learning Models
- SageMaker Notebooks and Endpoints
- Integrating SageMaker with Other AWS Services