**DAY 1**

**AWS CLOUD COMPUTING CONCEPTS**

The 6 Advantages of Cloud

Cloud Computing Models

Types of Cloud Deployment

Cloud Computing Concepts

DAY 2

**AWS GLOBAL INFRASTRUCTURE**

Regions

Availability Zones

Local Zones

AWS Wavelength

AWS Outposts

Edge Locations and Regional Edge Caches

DAY 3

**AWS IAM**

IAM Users

Groups

Roles

Policies

AWS Security Token Service (AWS STS)

IAM Best Practices

DAY 4

**AWS COMPUTE**

Amazon EC2

Pricing

Instance Types

Amazon Elastic Container Service (ECS

AWS Lambda

Amazon LightSail

Amazon LightSail Databases

AWS Elastic Beanstalk

AWS Batch

DAY 5

**AWS STORAGE**

Amazon Simple Storage Service (S3)

AWS Snowball

Amazon Elastic Block Store (EBS)

Instance Store Volumes

Amazon Elastic File System (EFS)

AWS Storage Gateway

DAY 6

**AWS NETWORKING**

Amazon Virtual Private Cloud (VPC)

Subnets

Firewalls

VPC Wizard

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AWS Direct Connect (DX)

AWS Global Accelerator

AWS Outposts

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**AWS DATABASES**

Use Cases For Different Database Types

Amazon Relational Database Service (RDS)

Amazon DynamoDB

Amazon RedShift

Amazon ElastiCache

Amazon EMR

DAY 8

**AUTO SCALING AND ELASTIC LOAD BALANCING**

Amazon EC2 Auto Scaling

Amazon Elastic Load Balancing (ELB)

DAY 9

**CONTENT DELIVERY AND DNS SERVICES.**

Amazon Route 53

Amazon CloudFront

DAY 10

**MONITORING AND LOGGING SERVICES**

Amazon CloudWatch

AWS CloudTrail

DAY11

**AWS BILLING AND PRICING**

Amazon EC2 pricing

Amazon Simple Storage Service (S3) Pricing

AWS Snowball Pricing

Amazon CloudFront Pricing

AWS Lambda Pricing

Amazon DynamoDB Pricing

AWS Support Plans

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**AWS BILLING AND PRICING CONTINUED**

Resource Groups and Tagging

AWS Organizations and Consolidated Billing

AWS Quick Starts

AWS Cost Explorer

AWS Pricing Calculator

AWS Cost & Usage Report

AWS Price List API

AWS Budgets

DAY 13

**AWS SECURITY SERVICES**

Benefits of AWS Security

Compliance

AWS Artifact

Amazon GuardDuty

AWS WAF & AWS Shield

AWS Key Management Service (AWS KMS

DAY 14

**AWS SECURITY SERVICES CONTINUED**

AWS CloudHSM

AWS Certificate Manager

AWS Inspector and AWS Trusted Advisor

Penetration Testing

AWS Single Sign-On (AWS SSO)

Amazon Cognito

AWS Directory Services

AWS Systems Manager Parameter Store

DAY 15

**AWS SHARED RESPONSIBILITY MODEL**

**DAY 16**

**ARCHITECTING FOR THE CLOUD**

IT assets become programmable resources

Global, available, and unlimited capacity

Higher level managed services

Security built-in

Design Principles

Disposable Resources Instead of Fixed Servers

Automation

Loose Coupling

Services, Not Servers

Databases

Removing Single Points of Failure

Caching

DAY 17

**AWS ANALYTICS SERVICES**

Amazon Elastic Map Reduce

Amazon Athena

AWS Glue

Data Analysis and Query Use Cases

Amazon Kinesis

Kinesis Video Streams

Kinesis Data Streams

Kinesis Data Firehose

Kinesis Data Analytics

DAY 18

**APPLICATION INTEGRATION SERVICES**

Amazon Simple Notification Service

Amazon Simple Queue Service (Amazon SQS)

Amazon Simple Workflow Service (Amazon SWF)

Amazon MQ

AWS Step Functions

DAY 19

**AWS CLOUD MANAGEMENT**

AWS Organizations

AWS Control Tower

AWS Service Catalog

AWS Systems Manager

AWS Personal Health Dashboard

Service Health Dashboard

AWS OpsWorks

AWS Trusted Advisor

AWS CloudFormation

DAY 20

**AWS MACHINE LEARNING SERVICES**

AWS Rekognition

Amazon Transcribe

Amazon Translate

Amazon Textract

Amazon SageMaker

Amazon Comprehend

Amazon Lex

Amazon Polly

Amazon Forecast

DAY 21

**ADDITIONAL AWS SERVICES**

Compute

Database

Migration

Networking & Content Delivery

Developer Tools

DAY 22 **ADDITIONAL AWS SERVICES CONTINUED**

AWS Managed Services

Analytics

Media Services

Mobile Services

End User Computing

Internet of Things (IoT)