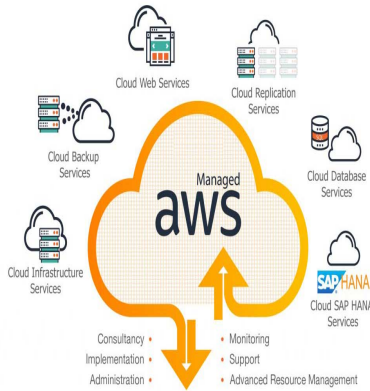




AWS Cloud Computing

Description

About Course

- If You Want To Take This Course **Online** , The Course fees Will be **25000 rupee**.
- Course Duration **8 months**.
- (Strictly in MONTHLY system) and ONE-month advance, which will be, adjust in the last month of the course.
- Small group of Study (At-Least **10 students** & At-most **15 students** in ONE group).
- The Course Will be taken **2 Days/Week and 2 Hours /Day**.

AWS Overview

- o Overview of Cloud Computing
- o Identify the Main Events in the History of AWS
- o Various AWS Platforms
- o Understand AWS Global Infrastructure and Security
- o Different AWS Services

Identity Access Management- IAM

- o Overview of Identity and Access Management (IAM)
- o IAM Features
- o Elements of IAM: Identities, Policies, and Resources
- o Identify Key IAM Terms and Policy Document
- o IAM as Single Sign On (SSO)
- o IAM Key Takeaways

Elastic Cloud Compute- EC2

- o Overview of Elastic Cloud Computing

- o Identify EC2 Benefits and Related Terminology
- o EC2 Instance Types and Resource Usage
- o EC3 Instance Types, Families, and Purchasing Options
- o Difference Between Root Volume in Instance Store and EBS
- o Overview of Amazon Machine Images
- o Create IAM Roles with ECS
- o Various Security Groups
- o Elastic Load Balancer and Auto Scaling in EC2

Amazon Simple Storage Service (S3)

- o Basic Concept and Overview of Simple Storage Service (S3)
- o S3 Buckets and Identify Different Storage Classes in S3
- o S3 Data Consistency Model
- o Overview of Version Control and Lifecycle Management
- o Definition and Creating Buckets, ACLs, and User Policies
- o Host a Static Website on S3
- o Work with Cross Origin Resource Sharing

DB Services

- o Basic Concept of Relational Database Service
- o Overview and Characteristics of RDS
- o Online Transaction Processing
- o Features and Availability of DB Instance
- o RDS Database Failover Process
- o Overview of ReadReplicas and DB Instance Backups
- o Security Groups and Working with DB
- o Difference Between Aurora and Other DB Engines
- o Overview of Amazon ElastiCache and Redshift

Dynamo DB

- o Basic Concepts and Overview of DynamoDB
- o Core components of DynamoDB
- o DynamoDB Primary and Secondary Indexes
- o Purpose of Query and Scan Operations
- o Management of Capacity and Throughput in DynamoDB
- o Overview of Read/Write Operations
- o DynamoDB Access Control and Data Migration
- o Web Identity Federation Using Third Party Identity Providers

Application Services

- o Basic Concepts and Overview of SQS
- o SQS Architecture and Features
- o Queue and Messages Services for SQS
- o Management of SQS Visibility Timeout
- o SQS Message Lifecycle, Dead Letter with Delay Queues
- o SQS Long Polling and Important Facts

- o SNS Services and its Core Components
- o Compare SNS and SQS
- o SWF Services and its Core Components
- o Compare SWF with SQS

Management Tools, Lambda and Kinesis

- o AWS CloudFormation Features and Template
- o AWS Cloud Formation Stacks and How to Work With Them
- o Elastic Beanstalk Overview and its Core Components
- o Elastic Beanstalk Architecture and supporting Platforms
- o Manage Beanstalk Environments
- o Manage Lambda Environments and its Features
- o Overview of Kinesis and Kinesis Client Library
- o Cloud Formation, Lambda, and Kinesis Key Takeaways

AWS Software Development Kit and Command Line Interface

- o Overview of AWS SDK (Software Development Kit)
- o Different Programming Languages SDK Supports
- o Command Line Interface Installation and Setup
- o Command Line Interface Service Operations

Amazon DNS Service Route 53

- o Basic Concepts of Route 53 and its Overview
- o Compare Public and Private Hosted Zones
- o DNS Resource Record Sets
- o Various DNS Routing Policies

Virtual Private Cloud- VPC

- o Overview of VPC
- o Types of Subnets and Security Groups
- o Creating and Usage of VPC Wizard
- o Manually Configuring a VPC
- o Elastic IP for an Instance While Creating a VPC
- o Routing Table and Route Priority for VPC
- o Compare NACL with Security Groups

AWS Security Features

- o AWS Security Features and its Overview
- o Various Shared Responsibility Models
- o AWS Compliance Program Difference Between Physical and Environmental Security
- o Business Continuity Management
- o Network Security and AWS Access Management
- o AWS Trusted Advisor Security Service Checks

CloudFront and CloudWatch

- o Introduction to CloudFront
- o Introduction to CloudWatch

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