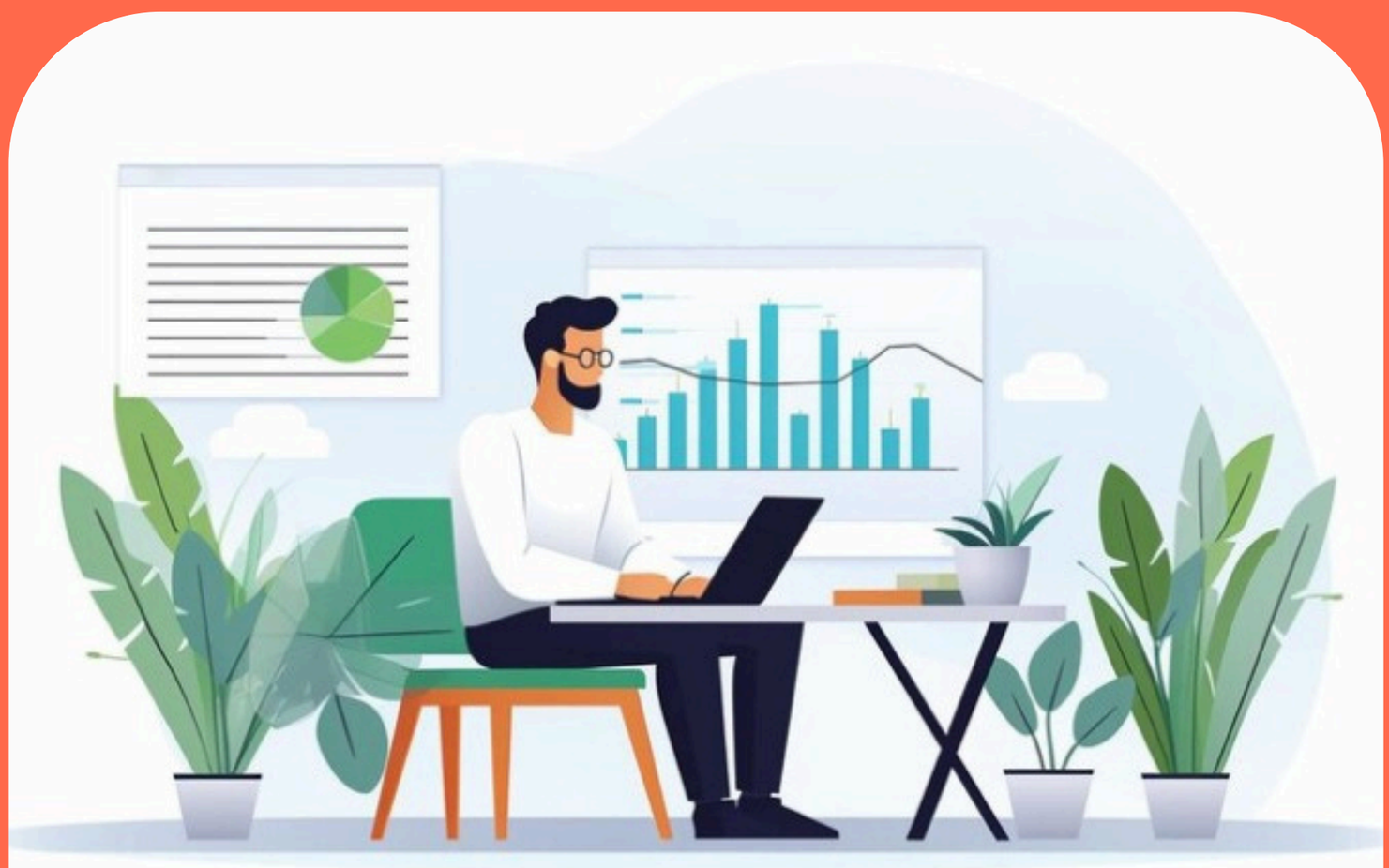
AGILE IT TECH

AWS



CURRICULUM

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ONLINE COURSE

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COURSE FEATURES :

1. **Course Duration:** 30-32 Hours (approx.)
2. **Category:** AWS, Programing
3. **Available Modes:** Online (Batch or One on One)
4. **Certificate:** Yes
5. **Location:** Online – Live Sessions
6. **Language:** English
7. **Sessions:** Weekday and Weekend
8. **Prerequisites:** No
9. **Skill Level:** Beginner
10. **Course Capacity:** 20
11. **Start Course:** **To be announced**

Description :

Unlock the power of cloud computing with our comprehensive course, “Mastering AWS Cloud Computing.” In this 30-hour intensive program, you will delve into the core concepts, technologies, and best practices of Amazon Web Services (AWS), the global leader in cloud services. Designed for beginners and IT professionals alike, this course provides a detailed exploration of cloud computing, AWS services, and practical hands-on experience.

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Course Content:

1. Introduction to Cloud computing & AWS

- What is Cloud Computing
- Cloud Service & Deployment Models
- How AWS is the leader in the cloud domain
- Various cloud computing products offered by AWS
- Introduction to AWS S3, EC2, VPC, EBS
- AWS architecture and the AWS Management Console, virtualization in AWS What is auto-scaling

2. Elastic Compute and Storage Volumes

- Introduction to EC2
- Regions & Availability Zones(AZs)
- Pre-EC2, EC2 instance types
- Comparing Public IP and Elastic IP
- Demonstrating how to launch an AWS EC2 instance Introduction to AMIs, Creating and Copying an AMI Introduction to EBS
- EBS volume types

3. Load Balancing, Autoscaling and DNS

- Introduction to Elastic Load Balancer
- Types of ELB – Classic, Network and Application
- Load balancer architecture o Cross-zone load balancing
- Introduction to Auto Scaling, vertical and horizontal scaling, the lifecycle of Auto Scaling
- Using load balancer with Auto Scaling
- Pre-Route 53 – how DNS works

4.Virtual Private Cloud

- What is Amazon VPC,
- VPC as a networking layer for EC2,
- IP address and CIDR notations,
- Components of VPC – network interfaces, route tables, internet gateway, NAT,
- Security in VPC

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5.Storage – Simple Storage Service

- Introduction to AWS storage
- Pre-S3 – online cloud storage
- API, S3 consistency models
- Storage hierarchy, buckets in S3
- Objects in S3, metadata and storage classes

6.Databases and In-Memory Datastores

- What is a database, types of databases, databases on AWS
- Introduction to Amazon RDS
- Multi-AZ deployments, features of RDS
- Read replicas in RDS, reserved DB instances
- RDS pricing and design patterns
- What is Amazon Redshift, advantages of Redshift

7.Management and Application Services

- Introduction to CloudFormation
- CloudFormation components
- CloudFormation templates
- The concept of Infrastructure-as-a-code
- Functions and pseudo parameters

8.Automation and Configuration

- What is AWS Lambda
- Creating a Lambda function
- How Lambda is different from EC2
- Benefits and limitations of Lambda
- How does Lambda work
- Use cases of Lambda, Lambda concepts
- Integration S3 with Lambda
- What is configuration management
- What is AWS OpsWorks, AWS OpsWorks benefits

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9.AWS Migration

- What is Cloud migration
- Why migration is important
- Migration process in AWS, the 6 R's migration strategy
- Virtual machine migration, migrating a local vm onto the AWS cloud
- Migrating databases using Database Migration Service (DMS)
- Migrating a local database to RDS

Thank You

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