



COURSE SYLLABUS

DEVOPS-205

AWS Cloud Practitioner Preparation

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OVERVIEW

Skill Level	:	Intermediate
Suitable for	:	Developers who want to learn how to use configure common AWS services, and/or prepare for AWS Cloud Practitioner certification.
Duration	:	3 Days

This course serves as a foundational overview of Amazon Web Services (AWS). At the end of the course, trainees will be able to build solutions using the different AWS services discussed.

COURSE OUTLINE

Introduction to Amazon Web Services (AWS)

- Landscape of Cloud Service Providers
- AWS Regions and Availability Zones

Amazon Elastic Compute Cloud (EC2)

- Amazon Machine Image (AMI)
- Instance Types
- Connecting to Instances
- Security Groups
- Vertical vs Horizontal Scalability
- Auto-scaling Groups
- Launch Configurations
- Launch Templates

Amazon Elastic Load Balancer

- Microservices Load Balancer Concepts
- Listener and Target Groups
- Health Checks
- Types of ELB

Amazon Simple Storage Service (S3)

- Images Buckets
- Objects
- Versioning

Amazon Relational Database Service (RDS)

- Introduction
- Creating RDS Instances
- Replication

Amazon API Gateway

- Problems solved by API Gateway pattern
- Hands-on exercise

Amazon Cognito

- OAuth 2
- JWT
- Amazon Cognito
- User Pools

Amazon Virtual Private Cloud (VPC)

- CIDR Blocks
- Subnets
- Gateways
- Route Tables

AWS Identity and Access Management (IAM)

- Authentication
- Authorization
- Principals
- Root Users
- Users
- Roles
- Policies

Amazon Cloudwatch

- Metrics
- Logs
- Events
- Alarms

Amazon DynamoDB

- SQL vs NoSQL
- Tables
- Items
- Attributes
- Partitions and Primary Key
- Operations
- Scan
- Query
- Streams

AWS Lambda

- Serverless Computing
- Common Runtimes
- Execution Lifecycle

- Logging
- Roles

Software and Hardware Requirements

- AWS account
- AWS CLI



Engineering for the Real World

Enquiries



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