

AWS Certified Cloud Practitioner

Course Outline:

Module 1: Introduction to Cloud Computing

1. Welcome
2. Why Cloud Computing
3. What is Cloud Computing
4. Cloud Computing Deployment Models
5. Cloud Computing Types
6. AWS Cloud Overview
7. AWS Management Console Walk-Through
8. AWS Shared Responsibility
9. Summary

Module 2: Identity and Access Management - IAM

1. IAM Overview
2. IAM Users & Groups Hands-On
3. IAM Policies Hands-On
4. MFA Overview
5. MFA Hands-On
6. AWS CLI
7. AWS CLI Installation Hands-On
8. AWS CLI Hands-On
9. IAM Roles
10. IAM Roles Hands-On
11. IAM Security Tools
12. IAM Security Tools Hands-On
13. IAM Best Practices
14. Shared responsibility model for IAM
15. IAM Summary

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Module 3: EC2 Storage

1. Budget Setup
2. EC2 Overview
3. EC2 Instance Hands-On
4. Security Groups
5. Security Group Hands-On
6. SSH Overview
7. SSH Using Putty-Windows
8. SSH Using CMD-Windows
9. EC2 Instance Connect
10. EC2 Instance Roles
11. EC2 Launch Types
12. Shared Responsibility Model for EC2
13. EC2 Summary

Module 4: EC2 Storage

1. Intro to EC2 Instance Storage
2. EBS Volume Overview
3. EBS Volume Hands-On
4. EBS Snapshots
5. EBS Snapshots Hands-On
6. AMI Overview
7. AMI Hands-On
8. EC2 Instance Store
9. EC2 Instance Store Hands-On
10. Elastic File System - EFS
11. Shared Responsibility Model for EC2 Storage
12. Section Cleanup
13. EC2 Instance Storage-Summary

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Module 5: Elastic Load Balancer and Auto Scaling Group - ELB & ASG

1. Introduction to Scalability & High-availability
2. High availability, Scalability and Elasticity
3. ELB Overview
4. ELB Hands-On
5. ASG Overview
6. ASG Hands-On
7. Section Cleanup
8. Summary

Module 6: Amazon S3

1. S3 Introduction
2. S3 Overview
3. S3 Hands-On
4. S3 Security
5. S3 Bucket Policies Hands-On
6. S3 Websites
7. S3 Websites Hands-On
8. S3 Versioning
9. S3 Versioning Hands-On
10. S3 Access Logs
11. S3 Access Logs Hands-On
12. S3 Replication
13. S3 Replication Hands-On
14. S3 Storage Classes
15. Snowball, Snowball Edge and SnowMobile
16. S3 Summary

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Module 7: Database and Analytics

1. Database Introduction
2. RDS & Aurora Overview
3. RDS Database Hands-On
4. ElastiCache Overview
5. DynamoDB Overview
6. DynamoDB Hands-On
7. RedShift Overview
8. Amazon EMR Overview
9. Athena Overview
10. AWS Glue
11. DMS Overview
12. Database & Analytics Summary

Module 8: Other Services

1. Other Compute Introduction
2. ECS-Fargate-ECR- Overview
3. What is Serverless
4. AWS Lambda
5. AWS Lambda Hands-On
6. AWS Batch
7. AWS LightSail
8. AWS LightSail Hands-On
9. Other Compute Summary

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Module 9: Scaling your Infrastructure

1. Cloud Formation Overview
2. Cloud Formation Hands-On
3. Elastic Beanstalk Overview
4. Elastic Beanstalk Hands-On
5. AWS CodeDeploy
6. AWS SSM
7. AWS OpsWorks
8. Infrastructure at scale Summary

Module 10: Global Applications

1. Why Global Application
2. Route 53
3. Route 53 Hands-On
4. CloudFront
5. CloudFront Hands-On
6. S3 Transfer Acceleration
7. AWS Global Accelerator
8. Global Application Summary

Module 11: Cloud Integration

1. Cloud Integration
2. SQS Service
3. SQS Service hands-on
4. SNS Service
5. SNS Service hands-on
6. Cloud Integration Summary

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Module 12: Monitoring on AWS

1. CloudWatch Metrics and Alarms
2. CloudWatch Metrics and Alarms Hands-on
3. CloudWatch Logs
4. CloudWatch Events and EventBridge
5. CloudWatch Events and EventBridge Hands-On
6. CloudTrail
7. X-Ray
8. Service Health Dashboard
9. Personal Health Dashboard
10. Monitoring Summary

Module 13: VPC and Networking

1. Setting the Expectations
2. VPC and subnets, Internet Gateway and NAT Gateways
3. VPC and subnets, Internet Gateway and NAT Gateways-Hands-On
4. NACL and Security Groups
5. NACL and Security Groups Hands-on
6. VPC Flow Logs
7. VPC Peering
8. VPC Flow Logs and VPC Peering Hands-on
9. VPC Endpoints
10. VPC Endpoints Hands-on
11. Site-to-site VPNs and Direct Connect
12. Transit Gateway
13. VPC Summary

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Module 14: Security and Compliance

1. Introduction to Security and Compliance
2. DDoS Mitigation
3. Penetration Testing
4. KMS and CloudHSM
5. Secrets Manager
6. AWS Artifact
7. GuardDuty
8. Inspector
9. AWS Config
10. AWS Macie
11. Security and Compliance Summary

Module 15: Machine Learning on AWS

1. Amazon Rekognition
2. Amazon Transcribe
3. Amazon Polly
4. Amazon Translate
5. Amazon Lex and Connect
6. Amazon Comprehend
7. Amazon SageMaker
8. Machine Learning Summary

Module 16: Advanced Identity

1. Amazon Cognito
2. Directory Services
3. Single Sign-On (SSO)
4. Advanced Identity Summary

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Module 17: Are you well-Architected?

1. Are you well-Architected
2. Operational Excellence
3. Security
4. Reliability
5. Performance Efficiency
6. Cost Optimization
7. Trusted Advisor

Module 18: Congratulations & Exam Preparation

1. Exam Tips & Congratulations