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AWS Certified Cloud Practitioner

Module 1: Introduction to Cloud Computing

- Welcome
- Why Cloud Computing
- What is Cloud Computing
- Cloud Computing Deployment Models
- Cloud Computing Types
- AWS Cloud Overview
- AWS Management Console Walk-Through
- AWS Shared Responsibility
- Summary

Module 2: Identity and Access Management IAM

- IAM Overview
- IAM Users & Groups Hands-On
- IAM Policies Hands-On
- MFA Overview
- MFA Hands-On
- AWS CLI
- AWS CLI Installation Hands-On
- AWS CLI Hands-On
- IAM Roles
- IAM Roles Hands-On
- IAM Security Tools
- IAM Security Tools Hands-On
- IAM Best Practices
- Shared Responsibility Model for IAM
- IAM Summary

Module 3: Elastic Cloud Computing EC2

- Budget Setup
- EC2 Overview
- EC2 Instance Hands-On
- Security Groups
- Security Groups Hands-On
- SSH Overview
- SSH Using Putty-Windows
- SSH Using CMD-Windows
- EC2 Instance Connect
- EC2 Instance Roles

EC2 Launch Types
Shared Responsibility Model for EC2
EC2 Summary

Module 4: EC2 Storage

Intro to EC2 Instance Storage
EBS Volume Overview
EBS Volume Hands-On
EBS Snapshots
EBS Snapshots Hands-On
AMI Overview
AMI Hands-On
EC2 Instance Store
EC2 Instance Store Hands-On
Elastic File System - EFS
Shared responsibility Model for EC2 Storage
Section Cleanup
EC2 Instance Storage Summary

Module 5: Elastic Load Balancer and Auto Scaling Group ELB and ESG

Introduction to Scalability & High-Availability
High Availability, Scalability and Elasticity
ELB Overview
ELB Hands-On
ASG Overview
ASG Hands-On
Section Cleanup
Summary

Module 6: Amazon S3

S3 Introduction
S3 Overview
S3 Hands-On
S3 Security
S3 Bucket Policies Hands-On
S3 Websites
S3 Website Hands-On
S3 Versioning
S3 Versioning Hands-On
S3 Access Logs
S3 Access Logs Hands-On
S3 Replication
S3 Replication Hands-On
S3 Storage Classes
Snowball, Snowball Edge and SnowMobile
S3 Summary

Module 7: Database and Analytics

- Database Introduction
- RDS & Aurora Overview
- RDS Database Hands-On
- ElastiCache Overview
- DynamoDB Overview
- DynamoDB Hands-On
- RedShift Overview
- Amazon EMR Overview
- Athena Overview
- AWS Glue
- DMS Overview
- Database & Analytics Summary

Module 8: Other Services

- Other Compute Introduction
- ECS-Fargate-ECR Overview
- What is Serverless
- AWS Lambda
- AWS Lambda Hands-On
- AWS Batch
- AWS LightSail
- AWS LightSail Hands-On
- Other Compute Summary

Module 9: Scaling Your Infrastructure

- CloudFormation Overview
- Cloud Formation Hands-On
- Elastic Beanstalk Overview
- Elastic Beanstalk Hands-On
- AWS CodeDeploy
- AWS SSM
- AWS OpsWorks
- Infrastructure at Scale Summary

Module 10: Global Applications

- Why Global Application
- Route 53
- Route 53 Hands-On
- CloudFront
- CloudFront Hands-On
- S3 Transfer Acceleration
- AWS Global Accelerator
- Global Application Summary

Module 11: Cloud Integration

- Cloud Integration Introduction
- SQS Service

- SQS Service Hands-On
- SNS Service
- SNS Service Hands-On
- Cloud Integration Summary

Module 12: Cloud Monitoring

- CloudWatch Metrics and Alarms
- CloudWatch Metrics and Alarms Hands-On
- CloudWatch Logs
- CloudWatch Events and EventBridge
- CloudWatch Events and EventBridge Hands-On
- CloudTrail
- X-Ray
- Service Health Dashboard
- Personal Health Dashboard
- Monitoring Summary

Module 13: Virtual Private Network

- Settings the Expectations
- VPC and subnets, Internet Gateway and NAT Gateways
- VPC and subnets, Internet Gateway and NAT Gateways-Hands-On
- NACL and Security Groups
- NACL and Security Groups Hands-On
- VPC Flow Logs
- VPC Peering
- VPC Flow Logs and VPC Peering Hands-On
- VPC Endpoints
- VPC Endpoints Hands-On
- Site-to-Site VPNs and Direct Connect
- Transit Gateway
- VPC Summary

Module 14: Security and Compliance

- Introduction to Security and Compliance
- DDoS Mitigation
- Penetration Testing
- KMS and CloudHSM
- Secrets Manager
- AWS Artifact
- GuardDuty
- Inspector
- AWS Config
- AWS Macie
- Security and Compliance Summary

Module 15: Machine Learning

- Amazon Rekognition

- Amazon Transcribe
- Amazon Polly
- Amazon Translate
- Amazon Lex and Connect
- Amazon Comprehend
- Amazon SageMaker
- Machine Learning Summary

Module 16: Advanced Identity

- Amazon Cognito
- Directory Services
- Single Sign-On (SSO)
- Advanced Identity Summary

Module 17: Are You Well Architected?

- Are You Well Architected
- Operational Excellence
- Security
- Reliability
- Performance Efficiency
- Cost Optimization
- Trusted Advisor

Module 18: Congratulations & Exam Preparation

- Exam Tips & Congratulations