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AWS Architect

Understanding Fundamental Cloud Concepts

Learning Objectives:

- Understand cloud computing fundamentals and benefits
- Gain knowledge of key cloud terminology and concepts
- Explore public, private, and hybrid cloud models
- Learn about IaaS and its applications
- Familiarize yourself with PaaS and SaaS use cases
- Review real-world use cases and applications

Topics:

- What is Cloud Computing - I
- What is Cloud Computing - II
- Benefits of Cloud Computing
- Key Concepts and Terminology
- Cloud Models: What is Public Cloud
- Cloud Models: Characteristics of Public Cloud
- Cloud Models: What is Private Cloud
- Cloud Models: Characteristics of Private Cloud
- Cloud Models: Hybrid Cloud
- Cloud Models: Characteristics of Hybrid Cloud
- Review and What Next!!
- What is IaaS?
- Use Cases of IaaS
- What is PaaS?
- Use Cases of PaaS
- What is SaaS?

AWS Certified Cloud Practitioner

Learning Objectives:

- Intro to AWS Practitioner Certification.
- Grasp foundational cloud concepts in AWS:
 - benefits, design principles, migration, and economics.
- Explore security and compliance in AWS for robust cloud governance.
- Navigate cloud technology and services in AWS with essential skills.
- Master AWS billing, pricing, and support for effective cost management.





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Topics

- Course Overview
- Introduction to Cloud Concepts
- Cloud Security and Compliance
- Cloud Technology and Services
- Billing, Pricing, and Support

AWS Certified Solutions Architect - Associate

Learning Objectives:

- Design and deploy scalable, fault-tolerant systems on AWS
- Select suitable AWS services for specific use cases
- Implement AWS networking and storage solutions
- Manage AWS applications, computing, databases, and serverless architectures
- Prepare for the AWS Certified Solutions Architect exam

Topics

- Introduction to Cloud Labs
- The Basics of Cloud with AWS
- Resilient Architectures
- High-Performance Architectures
- Secure Architectures
- Cost-Optimized Architectures
- Mock Test Papers

Cloud Migration and Cloud Security

Learning Objectives:

- Understand AWS Shared Responsibility Model and security implications
- Master AWS IAM for secure access control and user management
- Explore AWS security services (WAF, Shield, Secrets Manager) for enhanced security
- Utilize Trusted Advisor for security checks and implement recommendations
- Implement IAM best practices for secure access control
- Enhance AWS security using WAF, Shield, Secrets Manager





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Topics:

- Introduction to Migration
- Cloud Migration Strategies
- Assessment: Quiz
- AWS Migration Services
- Virtual Machine Migration
- Homogeneous and Heterogeneous Concepts explained
- Database Migration
- AWS Cloud Adoption Framework
- AWS Shared Responsibility Model
- Identity Access Management
- AWS WAF, AWS Shield, AWS Secrets Manager
- Trusted Advisor Security Checks

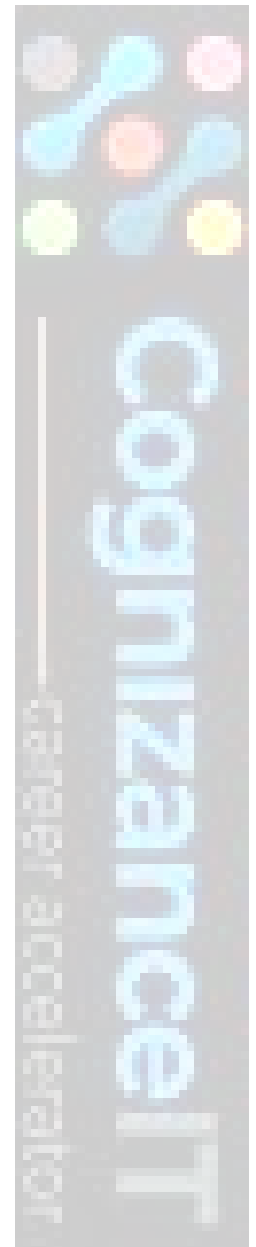
Elective 1: AWS Certified SysOps Administrator - Associate

Learning Objectives:

- Deploy, manage, and operate scalable systems on AWS
- Monitor and troubleshoot AWS applications for optimal performance
- Utilize AWS management tools (CloudFormation, Systems Manager, Config)
- Gain expertise in deploying and managing AWS applications and services
- Prepare for the AWS Certified SysOps Administrator Associate exam

Topics:

- Overview of AWS
- Monitoring, Metrics and Logging
- Networking
- Cost Optimization in AWS
- Security and Compliance
- Data Management for SysOps
- Scalability and Availability
- Deployment and Provisioning
- Preparing for Exam





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Elective 2: AWS Certified Developer Associate

Learning Objectives:

- Develop and deploy applications on AWS using services and APIs
- Utilize AWS developer tools (CodeDeploy, CodeCommit, CodePipeline)
- Build serverless applications with AWS Lambda
- Master AWS application development, deployment, and management
- Prepare for the AWS Certified Developer Associate exam

Topics:

- Introduction
- Required Tools
- Amazon Web Services (AWS) Basics
- Amazon Elastic Compute Cloud (Amazon EC2)
- Amazon Simple Storage Service (Amazon S3)
- Amazon Web Services (AWS) CloudFormation
- Amazon DynamoDB
- Amazon Virtual Private Cloud (VPC)
- Amazon Web Services (AWS) Identity and Access Management (IAM)
- Amazon Web Services (AWS) Lambda
- Amazon Web Services (AWS) Databases
- Amazon Web Services (AWS) Key Management Service (KMS)
- Amazon Simple Workflow (SWF)
- Amazon Simple Queue Service (SQS)
- Amazon Simple Notification Service (SNS)
- API Gateway
- Amazon Web Services (AWS) Deployment Developer Tools
- Amazon Elastic Container Service (Amazon ECS)
- Amazon Web Services (AWS) Elastic Beanstalk
- Amazon Web Services (AWS) Whitepapers
- Amazon Web Services (AWS) Well-Architected Framework
- Advanced Skills Section

