

# AWS Certified Solution Architect Professional



# Online Course

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## Course Modules



### Design Solutions for Organizational Complexity

#### 1. Architect network connectivity strategies

- AWS Global Infrastructure
- AWS networking concepts (Amazon VPC, AWS Direct Connect)
- Hybrid DNS concepts (Amazon Route 53 Resolver)
- Network segmentation (subnetting, IP addressing, etc)
- Network traffic monitoring

#### 2. Prescribe security controls

- AWS Identity & Access Management (IAM) & AWS IAM
- Route tables, security groups, and network ACLs
- Encryption keys and certificate management
- AWS security, identity, and compliance tools

#### 3. Design reliable and resilient architectures

- Rcvry time objectives (RTOs) & rcvr point objectives (RPOs)
- Disaster recovery strategies (AWS Elastic Disaster Recovery, etc)
- Data backup and restoration

#### 4. Design a multi-account AWS environment

- AWS Organizations and AWS Control Tower
- Multi-account event notifications
- AWS resource sharing across environments





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## 5. Determine cost optimization and visibility strategies

- AWS cost and usage monitoring tools
- AWS purchasing options (Reserved Instances, Savings Plans, etc)
- AWS rightsizing tools (AWS Compute Optimizer, S3 Storage Lens)

## Design for New Solutions

## 6. Design a deployment strategy to meet business requirements

- Infrastructure as code (IaC) (for example, AWS CloudFormation)
- Continuous integration and continuous delivery (CI/CD)
- Change management processes
- Configuration management tools (AWS Systems Manager)

## 7. Design a solution to ensure business continuity

- AWS Global Infrastructure
- AWS networking concepts (routing methods) RTOs and RPOs
- Disaster recovery scenarios (backup and restore, pilot light, etc)
- Disaster recovery solutions on AWS

## 8. Determine security controls based on requirements

- IAM
- Route tables, security groups, and network ACLs
- Encryption options for data at rest and data in transit
- AWS service endpoints
- Credential management services



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## 9. Design a strategy to meet reliability requirements

- AWS Global Infrastructure
- AWS storage services and replication strategies
- Multi-AZ and multi-Region architectures
- Auto scaling policies and events
- Application integration ( [Amazon SNS], [Amazon SQS], etc)
- Service quotas and limits

## 10. Design a solution to meet performance objectives

- Performance monitoring technologies
- Storage options on AWS
- Instance families and use cases
- Purpose-built databases

## 11. Cost Optimization strategy to meet soln goals & objectives

- AWS cost and usage monitoring tools
- Pricing models (Reserved Instances, Savings Plans)
- Storage tiering
- Data transfer costs
- AWS managed service offerings





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## Continuous Improvement for Existing Solutions

### 12. Strategy to improve overall operational excellence

- Alerting and automatic remediation strategies
- Disaster recovery planning
- Monitoring and logging solutions (Amazon CloudWatch)
- CI/CD pipelines and deployment strategies (blue/green)
- Config management tools (for example, Systems Manager)

### 13. Determine a strategy to improve security

- Data retention, data sensitivity, and data regulatory requirements
- Automated monitoring and remediation strategies
- Secrets management (Systems Manager, AWS Secrets Manager)
- Principle of least privilege access
- Security-specific AWS solutions
- Patching practices
- Backup practices and methods



### 14. Determine a strategy to improve performance

- High-performing systems architectures
- Global service offerings (AWS Global Accelerator, etc)
- Monitoring tool sets and services (for example, CloudWatch)
- Service level agreements (SLAs) & key performance indicators (KPIs)



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## 15. Determine a strategy to improve reliability

- AWS Global Infrastructure
- Data replication methods
- Scaling methodologies (load balancing, auto scaling)
- High availability and resiliency
- Disaster recovery methods and tools
- Service quotas and limits



## 16. Identify opportunities for cost optimizations

- Cost-conscious architecture choices
- Price model adoptions (Reserved Instances, Savings Plans)
- Networking & data transfer Cost mngmt, alerting, & reporting
- Accelerate Workload Migration and Modernization

## 17. Select existing workloads & processes for potential migratn

- Migration assessment and tracking tools (AWS Migration Hub)
- Portfolio assessment
- Asset planning
- Prioritization and migration of workloads (wave planning)





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## 18. Optimal migration approach for existing workloads

- Data migration options & tools (AWS DataSync, Transfer Family)
- Application migration tools
- AWS networking services and DNS
- Identity services (IAM Identity Centre, AWS Directory Service)
- Database migration tools ([AWS DMS], [AWS SCT])
- Governance tools (AWS Control Tower, Organizations)

## 19. Determine a new architecture for existing workloads

- Compute services (Amazon EC2, AWS Elastic Beanstalk)
- Containers ([Amazon ECS],[Amazon EKS], [Amazon ECR])
- AWS storage services ([Amazon EBS], [Amazon EFS], etc)
- Databases (Amazon DynamoDB, OpenSearch Service, etc)

## 20. Opportunities for modernization and enhancements

- Serverless compute offerings (for example, AWS Lambda)
- Containers (for example, Amazon ECS, Amazon EKS, Fargate)
- AWS storage services (for example, Amazon S3, Amazon EFS)
- Purpose-built databases (DynamoDB, Aurora Serverless, etc)
- Integration services (Amazon SQS, SNS, EventBridge, etc)



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