

Aws certificate solutions architect professional course (SAP-CO2)

1 High Availability and Business Continuity

- 1.1 Multi-region and multi-account architecture
- 1.2 Disaster recovery (DR) and backup strategies
- 1.3 Design for fault tolerance

2 Cost Optimization

- 2.1 Cost-effective resources provisioning
- 2.2 Identifying cost reduction opportunities
- 2.3 Using AWS Cost Management tools

3 Network Design

- 3.1 Advanced VPC (Virtual Private Cloud) configurations
- 3.2 Hybrid architecture (On-premises to AWS)
- 3.3 Network security and compliance

4 Storage Solutions

- 4.1 Data storage and archiving options
- 4.2 Data migration strategies
- 4.3 Designing for data consistency and durability











5 Security and Identity Management

- 5.1 AWS Identity and Access Management (IAM)
- 5.2 Security best practices
- 5.3 Encryption and key management

6 Scalability and Elasticity

- 6.1 Auto Scaling strategies
- 6.2 Load balancing and scaling
- 6.3 Application and infrastructure scalability

7 Deployment Management

- 7.1 AWS Elastic Beanstalk
- 7.2 AWS CloudFormation
- 7.3 Blue/Green and Canary deployments

8 DevOps and Automation

- 8.1 Infrastructure as Code (IaC)
- 8.2 AWS OpsWorks
- 8.3 CI/CD pipelines with AWS

CodePipeline, CodeBuild, and CodeDeploy











9 Monitoring and Troubleshooting

- 9.1 AWS CloudWatch
- 9.2 CloudTrail for auditing
- 9.3 Troubleshooting performance and operational issues

10 Databases

- 10.1 AWS RDS (Relational Database Service)
- 10.2 Amazon DynamoDB
- 10.3 Data warehousing with Amazon Redshift

11Specialty Services

- 11.1AWS Lambda and serverless architecture
- 11.2AWS Elastic Container Service (ECS)
- 11.3 AWS Global Accelerator

12 Case Studies and Best Practices

- 12.1 Real-world architectural scenarios
- 12.2 Best practices for various industries and use cases







