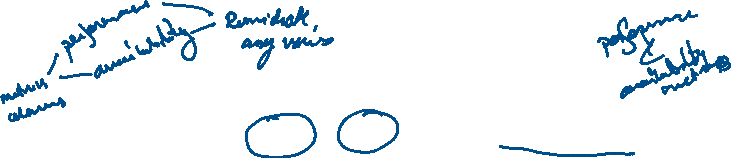
**Domain 1: Monitoring and Reporting** (1)



1.1 Create and maintain metrics and alarms utilizing AWS monitoring services

1.2 Recognize and differentiate performance and availability metrics



1.3 Perform the steps necessary to remediate based on performance and availability metrics

**Domain 2: High Availability** (7)



2.1 Implement scalability and elasticity based on use case



2.2 Recognize and differentiate highly available and resilient environments on AWS



**Domain 3: Deployment and Provisioning** (3)

3.1 Identify and execute steps required to provision cloud resources



3.2 Identify and remediate deployment issues



**Domain 4: Storage and Data Management** (5)

4.1 Create and manage data retention



4.2 Identify and implement data protection, encryption, and capacity planning needs



**Domain 5: Security and Compliance (2)**



5.1 Implement and manage security policies on AWS



5.2 Implement access controls when using AWS

5.3 Differentiate between the roles and responsibility within the shared responsibility model



**Domain 6: Networking (3)**



6.1 Apply AWS networking features



6.2 Implement connectivity services of AWS



6.3 Gather and interpret relevant information for network troubleshooting



**Domain 7: Automation and Optimization (5)**

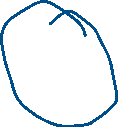
7.1 Use AWS services and features to manage and assess resource utilization



7.2 Employ cost-optimization strategies for efficient resource utilization



7.3 Automate manual or repeatable process to minimize management overhead



1. Define metrics and alarms => Identify performance and availability metrics => use availability and performance metrics to remediate issues (if any)
2. Implement scalable and elastic solutions and recognize highly available and resilient environments
3. Deploy cloud resources and remediate any deployment issues
4. Manage data retention and implement data protection, data encryption and capacity planning needs
5. Manage security policies and access controls and differentiate roles and responsibilities within the shared responsibility model
6. Apply networking features, implement connectivity features and network troubleshooting
7. Automate manual process, implement cost optimization strategies and manage resource utilization

Define metrics and alarms of an existing application. Configure for scalability and elasticity. Manage data retention and implement data protection, data encryption and manage capacity planning needs. Create policies and implement access controls within shared responsibility model. Implement networking and connectivity features and network troubleshooting. Automate any manual process, implement cost optimization strategies and manage resource utilization.

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