

AWS Certification



AWS Certified SysOps Administrator Associate

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COURSE MODULES

Monitoring, Logging, and Remediation



1. Implement metrics, alarms, and filters

- Identify, collect, analyze, and export logs (via CloudTrail logs).
- Collect metrics and logs by using the CloudWatch agent.
- Create CloudWatch alarms.
- Create metric filters.
- Create CloudWatch dashboards.
- Configure notifications

2. Remediate issues based on monitor & availability metrics

- Tshoot or take corrective actions based on notifications & alarms.
- Configure Amazon Event Bridge rules to invoke actions.
- Use AWS Systems Manager Automation runbooks

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Reliability and Business Continuity

3. Implement scalability and elasticity.

- Create and maintain AWS Auto Scaling plans.
- Implement caching.
- Implement Amazon RDS replicas and Amazon Aurora Replicas.
- Implement loosely coupled architectures.
- Differentiate between horizontal scaling and vertical scaling



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4. Implement high availability and resilient environments

- Elastic Load Balancing (ELB) & Amazon Route 53 health checks.
- Diff bet the use of a snlgl Availability Zone & Multi-AZ deployments
- Implement fault-tolerant workloads
- Implement Route 53 routing policies



5. Implement backup and restore strategies

- Automate snapshots and backups based on use cases
- Restore databases (for example, point-in-time restore, etc.,)
- Implement versioning and lifecycle rules.
- Configure Amazon S3 Cross-Region Replication (CRR).
- Perform disaster recovery procedures.

Deployment, Provisioning, and Automation

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6. Provision and maintain cloud resources

- Create and manage AMIs (for example, EC2 Image Builder).
- Create, manage, and troubleshoot AWS CloudFormation.
- Provision resources across multiple AWS Regions and accounts
- Select deployment scenarios and services
- Identify and remediate deployment issues



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7. Automate manual or repeatable processes

- Use AWS services (for example, Systems Manager, etc.,)
- Implement automated patch management.
- Schedule automated tasks by using AWS services

8. Implement & manage security and compliance policies

- Implement IAM features (for example, password policies, etc.,)
- Troubleshoot and audit access issues by using AWS services
- Validate service control policies (SCPs) & permissions boundaries.
- Review AWS Trusted Advisor security checks.
- Validate AWS Region & svc selections based on compliance req
- Implement secure multi-account strategies

9. Implement data & infrastructure protection strategies

- Enforce a data classification scheme.
- Create, manage, and protect encryption keys.
- Implement encryption at rest
- Implement encryption in transit
- Securely store secrets by using AWS services



Networking and Content Delivery

10. Implement networking features and connectivity

- Configure a VPC (for example, subnets, route tables, etc.,)
- Config private connectivity (for example, Systems Manager etc.,)
- Configure AWS network protection services (for example, etc.,)



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11. Configure domains, DNS services, & content delivery.

- Configure Route 53 hosted zones and records.
- Implement Route 53 routing policies (Geolocation, geoproximity).
- Configure DNS (for example, Route 53 Resolver).
- Configure Amazon CloudFront and S3 origin access control (OAC).
- Configure S3 static website hosting.

12. Troubleshoot network connectivity issues

- Interpret VPC configurations (for example, subnets, etc.,)
- Collect and interpret logs (for example, VPC Flow Logs, etc.,).
- Identify and remediate CloudFront caching issues.
- Troubleshoot hybrid and private connectivity issues.

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Cost and Performance Optimization

13. Implement cost optimization strategies

- Implement cost allocation tags.
- Identify and remediate underutilized or unused resources
- Configure AWS Budgets and billing alarms.
- Assess resource usage patterns to qualify workloads
- Identify opportunities to use managed services

14. Implement performance optimization strategies

- Recommend compute resources based on performance metrics.
- Monitor Amazon EBS metrics & modify config
- Implement S3 performance features
- Monitor RDS metrics and modify the configuration
- Enable enhanced EC2 capabilities



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