
AZURE DATABASE ADMINISTRATOR ASSOCIATE

(DP – 300)

1. Plan and Implement Data Platform Resources

- 1.1 Evaluate and recommend Azure data services based on requirements.
- 1.2 Configure firewall rules for Azure SQL resources.
- 1.3 Configure authentication in Azure SQL.
- 1.4 Configure secure endpoints for Azure SQL.
- 1.5 Manage Azure Key Vault.

2. Implement a Secure Environment

- 2.1 Configure database authentication by using platform and database tools.
- 2.2 Configure database authorization by using platform and database tools.
- 2.3 Implement Azure AD-based security.
- 2.4 Configure security for data at rest.
- 2.5 Configure security for data in transit.
- 2.6 Monitor and respond to security incidents in Azure.

3. Monitor and Optimize Operational Resources

- 3.1 Monitor and troubleshoot SQL Server performance.
- 3.2 Monitor and troubleshoot Azure SQL Database performance.
- 3.3 Monitor and troubleshoot Managed Instance performance.
- 3.4 Optimize query performance.
- 3.5 Automate tasks with PowerShell for Azure SQL.

3.6 Configure automatic tuning.

4. Optimize Query Performance

- 4.1 Review query plans.
- 4.2 Evaluate indexes.
- 4.3 Evaluate and implement locking and blocking.
- 4.4 Monitor and trace queries.
- 4.5 Collect performance data.

5. Plan and Implement High Availability and Disaster Recovery

- 5.1 Implement high availability solutions.
- 5.2 Implement Azure SQL Database automated backups.
- 5.3 Implement database replication.
- 5.4 Implement Always On availability groups.
- 5.5 Implement Auto-failover groups.
- 5.6 Implement Azure Site Recovery.

6. Plan and Implement a Backup and Restore Strategy

- 6.1 Perform backup and restore operations.
- 6.2 Perform online and offline database restores.
- 6.3 Create a long-term backup retention policy.
- 6.4 Configure Azure Backup.

7. Manage and Monitor Databases

- 7.1 Manage database statistics.
- 7.2 Monitor the performance of queries.
- 7.3 Monitor and troubleshoot SQL Server.
- 7.4 Monitor and troubleshoot Azure SQL Database.
- 7.5 Monitor and troubleshoot Managed Instance.





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