

AZ-301T02-A : Designing a Data Platform Solution

Learn to Compare and contrast various database options on Azure, identify data streaming options for large-scale data ingest, and identify longer-term data storage options.

Détails

- Code : AZ-301T02
- Durée : 1 jour (7 heures)

Public

- Administrateurs
- Administrateurs de bases de données
- Administrateurs de Cloud
- Administrateurs de data warehouse
- Administrateurs Linux
- Administrateurs systèmes
- Administrateurs systèmes et réseaux
- Administrators

Pré-requis

Objectifs

- Determine the ideal pricing option for Azure Storage based on a solution's requirements
- Identify performance thresholds for the Azure Storage service
- Determine the type of Storage blobs to use for specific solution components
- Use the Azure Files service for SMB operations
- Identify solutions that could benefit from the use of StorSimple physical or virtual devices

Programme

Module 1: Backing Azure Solutions with Azure Storage

- Description
 - This module describes how many Azure services use the Azure Storage service as a backing store for other application solution in Azure
 - The module dives into critical considerations when using Azure Storage as a supplemental service for an all-up Azure solution
- After completing this module, students will be able to:
 - Determine the ideal pricing option for Azure Storage based on a solution's requirements
 - Identify performance thresholds for the Azure Storage service
 - Determine the type of Storage blobs to use for specific solution components
 - Use the Azure Files service for SMB operations
 - Identify solutions that could benefit from the use of StorSimple physical or virtual devices

Module 2: Comparing Database Options in Azure

- Description
 - This module compares the various relational and non-relational data storage options available in Azure
- Options are explored as groups such as relational databases (Azure SQL Database, MySQL, and PostgreSQL on Azure), non-relational (Azure Cosmos DB, Storage Tables), streaming (Stream

Analytics) and storage (Data Factory, Data Warehouse, Data Lake)

- Lab
 - Deploying Database Instances in Azure
- After completing this module, students will be able to:
 - Compare and contrast monitoring services for applications, the Azure platform, and networking
 - Identify data streaming options for large-scale data ingest
 - Identify longer-term data storage options

Module 3: Monitoring & Automating Azure Solutions

- Description
 - This module covers the monitoring and automation solutions available after an Azure solution has been architected, designed and possibly deployed
 - The module reviews services that are used to monitor individual applications, the Azure platform, and networked components
 - This module also covers automation and backup options to enable business-continuity scenarios for solutions hosted in Azure
- Lab
 - Deploying Configuration Management Solutions to Azure
- After completing this module, students will be able to:
 - Compare and contrast monitoring services for applications, the Azure platform, and networking

- Design an alert scheme for a solution hosted in Azure
- Select the appropriate backup option for infrastructure and data hosted in Azure
- Automate the deployment of future resources for backup recovery or scaling purposes

Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages