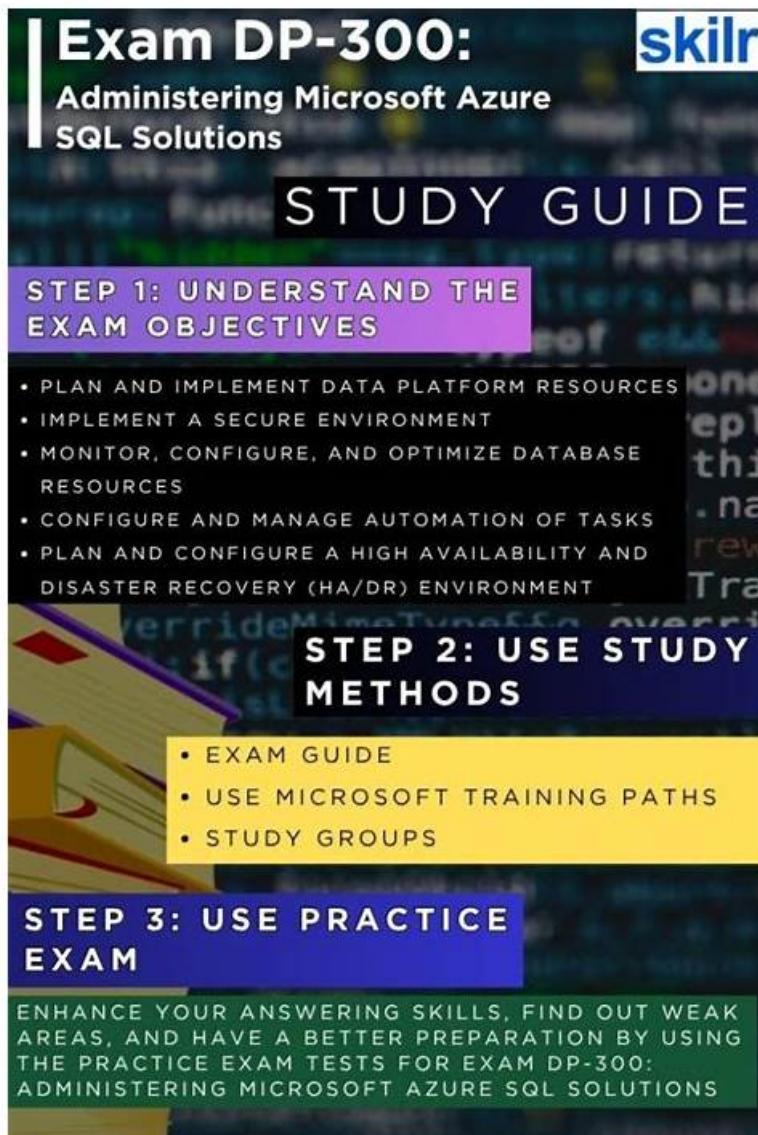


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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q77-Q82):

NEW QUESTION # 77

You have an Azure SQL database that contains a table named Employees. Employees contains a column named Salary. You need to encrypt the Salary column. The solution must prevent database administrators from reading the data in the Salary column and must provide the most secure encryption.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

Explanation:

Explanation:

Step 1: Create a column master key

Create a column master key metadata entry before you create a column encryption key metadata entry in the database and before any column in the database can be encrypted using Always Encrypted.

Step 2: Create a column encryption key.

Step 3: Encrypt the Salary column by using the randomized encryption type.

Randomized encryption uses a method that encrypts data in a less predictable manner. Randomized encryption is more secure, but prevents searching, grouping, indexing, and joining on encrypted columns.

Note: A column encryption key metadata object contains one or two encrypted values of a column encryption key that is used to encrypt data in a column. Each value is encrypted using a column master key.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine>

NEW QUESTION # 78

You have an Azure Data Factory instance named ADF1 and two Azure Synapse Analytics workspaces named WS1 and WS2. ADF1 contains the following pipelines:

P1:Uses a copy activity to copy data from a nonpartitioned table in a dedicated SQL pool of WS1 to an Azure Data Lake Storage Gen2 account P2:Uses a copy activity to copy data from text-delimited files in an Azure Data Lake Storage Gen2 account to a nonpartitioned table in a dedicated SQL pool of WS2 You need to configure P1 and P2 to maximize parallelism and performance. Which dataset settings should you configure for the copy activity of each pipeline? To answer, select the appropriate options in the answer area.

Answer:

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-sql-data-warehouse>

<https://docs.microsoft.com/en-us/azure/data-factory/load-azure-sql-data-warehouse>

NEW QUESTION # 79

You have an Azure SQL database that contains a table named Customer. Customer has the columns shown in the following table.

You plan to implement a dynamic data mask for the Customer_Phone column. The mask must meet the following requirements:

* The first six numerals of each customer's phone number must be masked.

* The last four digits of each customer's phone number must be visible.

* Hyphens must be preserved and displayed.

How should you configure the dynamic data mask? To answer, select the appropriate options in the answer area.

Answer:

Explanation:

Explanation

Box 1: 0

Custom String : Masking method that exposes the first and last letters and adds a custom padding string in the middle, prefix, [padding],suffix Box 2: xxx-xxx Box 3: 5 Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/dynamic-data-masking>

NEW QUESTION # 80

Case Study 2 - Contoso, Ltd

Overview

General Overview

Contoso, Ltd. is a financial data company that has 100 employees. The company delivers financial data to customers.

Physical Locations

Contoso has a datacenter in Los Angeles and an Azure subscription. All Azure resources are in the US West 2 Azure region.

Contoso has a 10-Gb ExpressRoute connection to Azure.

The company has customers worldwide.

Existing Environment

Active Directory

Contoso has a hybrid Azure Active Directory (Azure AD) deployment that syncs to on-premises Active Directory.

Database Environment

Contoso has SQL Server 2017 on Azure virtual machines shown in the following table.

SQL1 and SQL2 are in an Always On availability group and are actively queried. SQL3 runs jobs, provides historical data, and handles the delivery of data to customers.

The on-premises datacenter contains a PostgreSQL server that has a 50-TB database.

Current Business Model

Contoso uses Microsoft SQL Server Integration Services (SSIS) to create flat files for customers.

The customers receive the files by using FTP.

Requirements

Planned Changes

Contoso plans to move to a model in which they deliver data to customer databases that run as platform as a service (PaaS) offerings. When a customer establishes a service agreement with Contoso, a separate resource group that contains an Azure SQL database will be provisioned for the customer. The database will have a complete copy of the financial data. The data to which each customer will have access will depend on the service agreement tier. The customers can change tiers by changing their service agreement.

The estimated size of each PaaS database is 1 TB.

Contoso plans to implement the following changes:

Move the PostgreSQL database to Azure Database for PostgreSQL during the next six months.

Upgrade SQL1, SQL2, and SQL3 to SQL Server 2019 during the next few months.

Start onboarding customers to the new PaaS solution within six months.

Business Goals

Contoso identifies the following business requirements:

Use built-in Azure features whenever possible.

Minimize development effort whenever possible.

Minimize the compute costs of the PaaS solutions.

Provide all the customers with their own copy of the database by using the PaaS solution.

Provide the customers with different table and row access based on the customer's service agreement.

In the event of an Azure regional outage, ensure that the customers can access the PaaS solution with minimal downtime. The solution must provide automatic failover.

Ensure that users of the PaaS solution can create their own database objects but be prevented from modifying any of the existing database objects supplied by Contoso.

Technical Requirements

Contoso identifies the following technical requirements:

Users of the PaaS solution must be able to sign in by using their own corporate Azure AD credentials or have Azure AD credentials supplied to them by Contoso. The solution must avoid using the internal Azure AD of Contoso to minimize guest users.

All customers must have their own resource group, Azure SQL server, and Azure SQL database. The deployment of resources for each customer must be done in a consistent fashion.

Users must be able to review the queries issued against the PaaS databases and identify any new objects created.

Downtime during the PostgreSQL database migration must be minimized.

Monitoring Requirements

Contoso identifies the following monitoring requirements:

Notify administrators when a PaaS database has a higher than average CPU usage.

Use a single dashboard to review security and audit data for all the PaaS databases.

Use a single dashboard to monitor query performance and bottlenecks across all the PaaS databases.

Monitor the PaaS databases to identify poorly performing queries and resolve query performance issues automatically whenever possible.

PaaS Prototype

During prototyping of the PaaS solution in Azure, you record the compute utilization of a customer's Azure SQL database as shown in the following exhibit.

Role Assignments

For each customer's Azure SQL Database server, you plan to assign the roles shown in the following exhibit.

Which audit log destination should you use to meet the monitoring requirements?

- A. Azure Event Hubs
- B. Azure Storage
- C. **Azure Log Analytics**

Answer: C

Explanation:

Scenario: Use a single dashboard to review security and audit data for all the PaaS databases.

With dashboards can bring together operational data that is most important to IT across all your Azure resources, including telemetry from Azure Log Analytics.

Note: Auditing for Azure SQL Database and Azure Synapse Analytics tracks database events and writes them to an audit log in your Azure storage account, Log Analytics workspace, or Event Hubs.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/visualize/tutorial-logs-dashboards>

NEW QUESTION # 81

You have an Azure SQL database named D61.

You need to identify how much unused space in megabytes was allocated to DB1.

How should you complete the Transact-SQL query? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 82

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