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The DP-300 Certification Exam is ideal for IT professionals who are looking to advance their careers in cloud computing and database administration. Administering Relational Databases on Microsoft Azure certification validates your skills and knowledge in administering and maintaining relational databases on Microsoft Azure, which is a highly sought-after skill in the IT industry.

The DP-300 exam covers a wide range of topics related to managing and maintaining databases on Microsoft Azure. These topics include designing and implementing Azure SQL database, managing and monitoring Azure SQL database resources, configuring security for Azure SQL database, and performing disaster recovery for Azure SQL database. To pass the exam, candidates must demonstrate their proficiency in these areas and their ability to use Azure tools and services to administer relational databases.

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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q223-Q228):

NEW QUESTION # 223
You have a new Azure SQL managed instance.
You plan to create a SQL Server Agent job named SalesTotal.
You need to ensure that SalesTotal can send out notifications.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation:

NEW QUESTION # 224
Case Study 1 - Litware, Inc
Overview
Litware, Inc. is a renewable energy company that has a main office in Boston. The main office hosts a sales department and the primary datacenter for the company.
Physical Locations
Existing Environment
Litware has a manufacturing office and a research office is separate locations near Boston. Each office has its own datacenter and internet connection.
The manufacturing and research datacenters connect to the primary datacenter by using a VPN.
Network Environment
The primary datacenter has an ExpressRoute connection that uses both Microsoft peering and private peering. The private peering connects to an Azure virtual network named HubVNet.
Identity Environment
Litware has a hybrid Azure Active Directory (Azure AD) deployment that uses a domain named litwareinc.com. All Azure subscriptions are associated to the litwareinc.com Azure AD tenant.
Database Environment
The sales department has the following database workload:
An on-premises named SERVER1 hosts an instance of Microsoft SQL Server 2012 and two 1- TB databases.
A logical server named SalesSrv01A contains a geo-replicated Azure SQL database named SalesSQLDb1. SalesSQLDb1 is in an elastic pool named SalesSQLDb1Pool. SalesSQLDb1 uses database firewall rules and contained database users.
An application named SalesSQLDb1App1 uses SalesSQLDb1.
The manufacturing office contains two on-premises SQL Server 2016 servers named SERVER2 and SERVER3. The servers are nodes in the same Always On availability group. The availability group contains a database named ManufacturingSQLDb1 Database administrators have two Azure virtual machines in HubVnet named VM1 and VM2 that run Windows Server 2019 and are used to manage all the Azure databases.
Licensing Agreement
Litware is a Microsoft Volume Licensing customer that has License Mobility through Software Assurance.
Current Problems
SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.
Requirements
Planned Changes
Litware plans to implement the following changes:
Implement 30 new databases in Azure, which will be used by time-sensitive manufacturing apps that have varying usage patterns. Each database will be approximately 20 GB.
Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01. ResearchDB1 will contain Personally Identifiable Information (PII) data.
Develop an app named ResearchApp1 that will be used by the research department to populate and access ResearchDB1.
Migrate ManufacturingSQLDb1 to the Azure virtual machine platform.
Migrate the SERVER1 databases to the Azure SQL Database platform.
Technical Requirements
Litware identifies the following technical requirements:
Maintenance tasks must be automated.
The 30 new databases must scale automatically.
The use of an on-premises infrastructure must be minimized.
Azure Hybrid Use Benefits must be leveraged for Azure SQL Database deployments.
All SQL Server and Azure SQL Database metrics related to CPU and storage usage and limits must be analyzed by using Azure built-in functionality.
Security and Compliance Requirements
Litware identifies the following security and compliance requirements:
Store encryption keys in Azure Key Vault.
Retain backups of the PII data for two months.
Encrypt the PII data at rest, in transit, and in use.
Use the principle of least privilege whenever possible.
Authenticate database users by using Active Directory credentials.
Protect Azure SQL Database instances by using database-level firewall rules.
Ensure that all databases hosted in Azure are accessible from VM1 and VM2 without relying on public endpoints.
Business Requirements

Litware identifies the following business requirements:
Meet an SLA of 99.99% availability for all Azure deployments.
Minimize downtime during the migration of the SERVER1 databases.
Use the Azure Hybrid Use Benefits when migrating workloads to Azure.
Once all requirements are met, minimize costs whenever possible.
Hotspot Question
You need to recommend a configuration for ManufacturingSQLDb1 after the migration to Azure.
The solution must meet the business requirements.
What should you include in the recommendation? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation:
Scenario: Business Requirements
Litware identifies business requirements include: meet an SLA of 99.99% availability for all Azure deployments.
Box 1: Cloud witness
If you have a Failover Cluster deployment, where all nodes can reach the internet (by extension of Azure), it is recommended that you configure a Cloud Witness as your quorum witness resource.
Box 2: Azure Basic Load Balancer
Microsoft guarantees that a Load Balanced Endpoint using Azure Standard Load Balancer, serving two or more Healthy Virtual Machine Instances, will be available 99.99% of the time.
Note: There are two main options for setting up your listener: external (public) or internal. The external (public) listener uses an internet facing load balancer and is associated with a public Virtual IP (VIP) that is accessible over the internet. An internal listener uses an internal load balancer and only supports clients within the same Virtual Network.
Reference:
https://technet.microsoft.com/windows-server-docs/failover-clustering/deploy-cloud-witness
https://azure.microsoft.com/en-us/support/legal/sla/load-balancer/v1_0/

NEW QUESTION # 225
You have an Azure SQL database.
Users report that the executions of a stored procedure are slower than usual. You suspect that a regressed query is causing the performance issue.
You need to view the query execution plan to verify whether a regressed query is causing the issue. The solution must minimize effort.
What should you use?

- A. Query Store in Microsoft SQL Server Management Studio (SSMS)
- B. Query Performance Insight in the Azure portal
- C. Performance Recommendations in the Azure portal
- D. Extended Events in Microsoft SQL Server Management Studio (SSMS)

Answer: A

Explanation:
Section: [none]
Explanation:
Use the Query Store Page in SQL Server Management Studio.
Query performance regressions caused by execution plan changes can be non-trivial and time consuming to resolve.
Since the Query Store retains multiple execution plans per query, it can enforce policies to direct the Query Processor to use a specific execution plan for a query. This is referred to as plan forcing. Plan forcing in Query Store is provided by using a mechanism similar to the USE PLAN query hint, but it does not require any change in user applications. Plan forcing can resolve a query performance regression caused by a plan change in a very short period of time.
Reference:
https://docs.microsoft.com/en-us/sql/relational-databases/performance/monitoring-performance-by-using-the-query-store

NEW QUESTION # 226
You create all of the tables and views for ResearchDB1.
You need to implement security for ResearchDB1. The solution must meet the security and compliance requirements.
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:
1 - Register ResearchApp1 to Azure AD.
2 - Create an Azure Key Vault instance and configure an access policy.
3 - Run the Always Encrypted wizard.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/always-encrypted-azure-key-vault-configure?tabs=azure-powershell
Topic 2, Contoso Ltd
Existing Environment
Contoso, Ltd. is a financial data company that has 100 employees. The company delivers financial data to customers.
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:
Business Goals
Contoso identifies the following business requirements:
Technical Requirements
Contoso identifies the following technical requirements:
Monitoring Requirements
Contoso identifies the following monitoring requirements:
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.

NEW QUESTION # 227
You have SQL Server on an Azure virtual machine that contains a database named DB1. DB1 is 30 TB and has a 1-GB daily rate of change.
You back up the database by using a Microsoft SQL Server Agent job that runs Transact-SQL commands.
You perform a weekly full backup on Sunday, daily differential backups at 01:00, and transaction log backups every five minutes.
The database fails on Wednesday at 10:00.
Which three backups should you restore in sequence? To answer, move the appropriate backups from the list of backups to the answer area and arrange them in the correct order.

Answer:

Explanation:
Explanation

NEW QUESTION # 228
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