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By achieving the DP-300 certification, IT professionals can show that they have the skills and knowledge needed to manage databases on Azure effectively. Administering Relational Databases on Microsoft Azure certification can help to open up new career opportunities and increase earning potential, as companies are always looking for skilled professionals who can manage their data efficiently and securely in the cloud. If you are looking to advance your career in database administration on Azure, the DP-300 Certification Exam is an excellent place to start.

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Microsoft DP-300 Pdf Questions - Exceptional Practice To Administering Relational Databases on Microsoft Azure

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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q116-Q121):

NEW QUESTION # 116
You have a Microsoft SQL Server 2019 database named DB1 that uses the following database- level and instance-level features.
- Clustered columnstore indexes
- Automatic tuning
- Change tracking
- PolyBase
You plan to migrate DB1 to an Azure SQL database.

What feature should be removed or replaced before DB1 can be migrated?

- A. PolyBase
- B. Change tracking
- C. Automatic tuning
- D. Clustered columnstore indexes

Answer: A

Explanation:
This table lists the key features for PolyBase and the products in which they're available.

Feature	SQL Server (Beginning with 2016)	Azure SQL Database	Azure Synapse Analytics	Parallel Data Warehouse
Query Hadoop data with Transact-SQL	Yes	No	No	Yes
Import data from Hadoop	Yes	No	No	Yes
Export data to Hadoop	Yes	No	No	Yes
Query, import from, export to Azure HDInsight	No	No	No	No
Push down query computations to Hadoop	Yes	No	No	Yes
Import data from Azure Blob storage	Yes	Yes*	Yes	Yes
Export data to Azure Blob storage	Yes	No	Yes	Yes
Import data from Azure Data Lake Store	No	No	Yes	No
Export data to Azure Data Lake Store	No	No	Yes	No
Run PolyBase queries from Microsoft BI tools	Yes	No	Yes	Yes

Incorrect Answers:
C: Change tracking is a lightweight solution that provides an efficient change tracking mechanism for applications. It applies to both Azure SQL Database and SQL Server.
D: Azure SQL Database and Azure SQL Managed Instance automatic tuning provides peak performance and stable workloads through continuous performance tuning based on AI and machine learning.
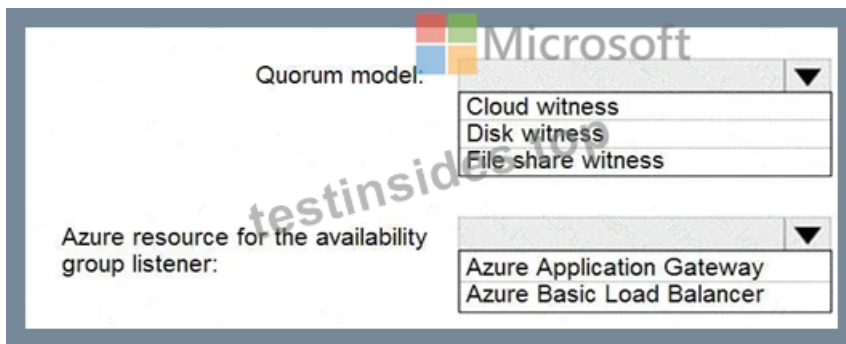Reference:
https://docs.microsoft.com/en-us/sql/relational-databases/polybase/polybase-versioned-feature-summary

NEW QUESTION # 117
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:

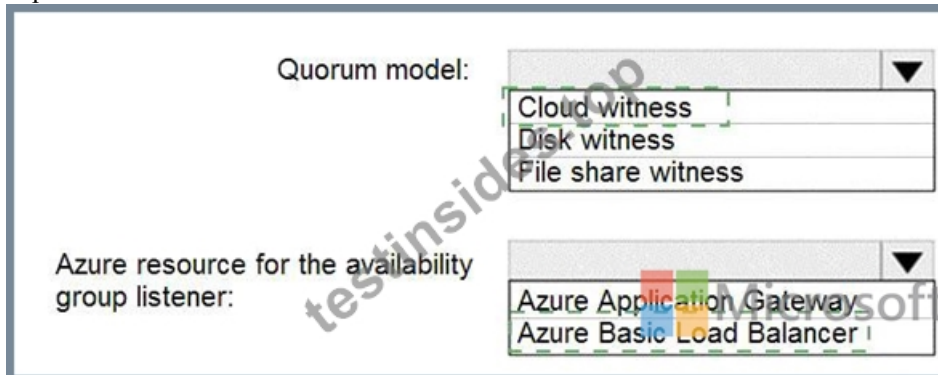Explanation:

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/

Topic 1, Litware

Existing Environment

Network Environment

The manufacturing and research datacenters connect to the primary datacenter by using a VPN.

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.

NEW QUESTION # 118
You have 20 Azure SQL databases provisioned by using the vCore purchasing model.
You plan to create an Azure SQL Database elastic pool and add the 20 databases.
Which three metrics should you use to size the elastic pool to meet the demands of your workload? Each correct answer presents
part of the solution.
NOTE: Each correct selection is worth one point.

- A. total size of all the databases
- B. geo-replication support
- C. number of concurrently peaking databases * peak CPU utilization per database
- D. maximum number of concurrent sessions for all the databases
- E. total number of databases * average CPU utilization per database

Answer: A,C,E

Explanation:
CE: Estimate the vCores needed for the pool as follows:
For vCore-based purchasing model: MAX(<Total number of DBs X average vCore utilization per DB>, <Number of concurrently peaking DBs X Peak vCore utilization per DB) A: Estimate the storage space needed for the pool by adding the number of bytes needed for all the databases in the pool.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview

NEW QUESTION # 119
You have a resource group named App1Dev that contains an Azure SQL Database server named DevServer1.
DevServer1 contains an Azure SQL database named DB1. The schema and permissions for DB1 are saved in a Microsoft SQL Server Data Tools (SSDT) database project.
You need to populate a new resource group named App1Test with the DB1 database and an Azure SQL Server named TestServer1. The resources in App1Test must have the same configurations as the resources in App1Dev.
Which four 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:

Actions	Answer Area
Change the Active Directory Admin on TestServer1	From the Azure portal, export the Azure Resource Manager templates
Change the server name and related variables in the templates	Change the server name and related variables in the templates
From the database project, deploy the database schema and permissions	From the Azure portal, deploy the templates.
Add IP addresses to the firewall	From the database project, deploy the database schema and permissions
From the Azure portal, export the Azure Resource Manager templates	
From the Azure portal, deploy the templates.	
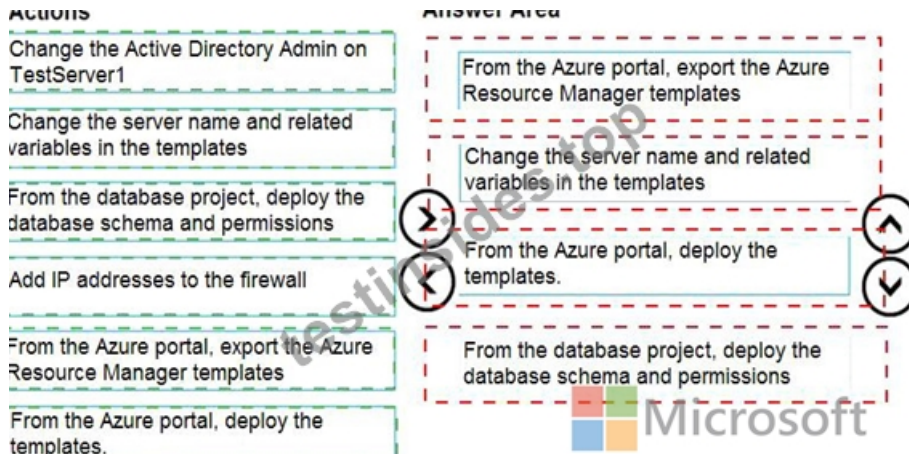
Explanation:

From the Azure portal, export the Azure Resource Manager templates

Change the server name and related variables in the templates

From the Azure portal, deploy the templates.

From the database project, deploy the database schema and permissions

NEW QUESTION # 120

You are performing exploratory analysis of bus fare data in an Azure Data Lake Storage Gen2 account by using an Azure Synapse Analytics serverless SQL pool.

You execute the Transact-SQL query shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

The query results include only **[answer choice]** n the csv/busfare folder.

CSV files in the tripdata_2020 subfolder
files that have files names beginning with "tripdata_2020"
CSV files that have file names containing "tripdata_202"
CSV files that have file named beginning with "tripdata_2020"

The query assumes that the first row in a CSV file is **[answer choice]** row.

a header
a data
an empty

Answer:

Explanation:

The query results include only **[answer choice]** in the csv/busfare folder.
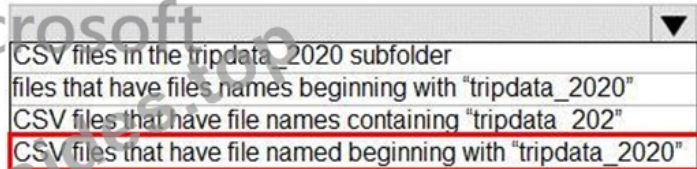
CSV files in the tripdata_2020 subfolder
files that have files names beginning with "tripdata_2020"
CSV files that have file names containing "tripdata_202"
CSV files that have file named beginning with "tripdata_2020"

The query assumes that the first row in a CSV file is **[answer choice]** row.

a header
a data
an empty

Reference:
https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-openrowset
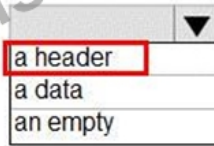
NEW QUESTION # 121
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