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**Vendor: Microsoft**

**Exam Code: DP-300**

**Exam Name: Administering Relational Databases on Microsoft Azure**

**Version: 13.01**

**Q & As: 230**

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### **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SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.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:

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- 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.

### **QUESTION 1**

#### **HOTSPOT**

You need to recommend the appropriate purchasing model and deployment option for the 30 new databases. The solution must meet the technical requirements and the business requirements.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Purchasing model: 

	▼
Azure virtual machine reserved instances	
DTU	
vCore	

Deployment option: 

	▼
An Azure SQL Database elastic pool	
An Azure SQL Database managed instance	
A SQL Server Always On availability group	

**Correct Answer:**

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Purchasing model: 

Azure virtual machine reserved instances
DTU
vCore

Deployment option: 

An Azure SQL Database elastic pool
An Azure SQL Database managed instance
A SQL Server Always On availability group

### QUESTION 2

#### HOTSPOT

You are planning the migration of the SERVER1 databases. The solution must meet the business requirements.

What should you include in the migration plan? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Azure Database Migration Service pricing tier: 

Standard 2-vCore
Standard 4-vCore
Premium 4-vCore

Required Azure resource: 

A virtual network that has service endpoints
A VPN gateway
An Azure Logic app

#### Correct Answer:

Azure Database Migration Service pricing tier: 

Standard 2-vCore
Standard 4-vCore
Premium 4-vCore

Required Azure resource: 

A virtual network that has service endpoints
A VPN gateway
An Azure Logic app

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### QUESTION 3

#### DRAG DROP

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.

Actions	Answer Area
Run the Always Encrypted wizard.	
Create an Azure Key Vault instance and generate a secret.	
Create an Azure Key Vault instance and configure an access policy.	
Create an Azure AD managed identity.	
Register ResearchApp1 to Azure AD.	

#### Correct Answer:

Actions	Answer Area
Run the Always Encrypted wizard.	Register ResearchApp1 to Azure AD.
Create an Azure Key Vault instance and generate a secret.	Create an Azure Key Vault instance and configure an access policy.
Create an Azure Key Vault instance and configure an access policy.	Run the Always Encrypted wizard.
Create an Azure AD managed identity.	
Register ResearchApp1 to Azure AD.	

### QUESTION 4

#### HOTSPOT

You need to implement the monitoring of SalesSQLDb1. The solution must meet the technical requirements.

How should you collect and stream metrics? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

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