

DRAG DROP

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You have an on-premises datacenter named Site1. Site1 contains a VMware vSphere cluster named Cluster1 that hosts 100 virtual machines. Cluster1 is managed by using VMware vCenter.

You have an Azure subscription named Sub1.

You plan to migrate the virtual machines from Cluster1 to Sub1.

You need to identify which resources are required to run the virtual machines in Azure. The solution must minimize administrative effort.

What should you configure? To answer, drag the appropriate resources to the correct targets. Each resource may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Resources

An Azure Migrate appliance

An Azure Migrate project

An Azure VMware Solution private cloud

An Azure VMware Solution host

Answer Area

Sub1:

Cluster1:

Correct Answer:

Sub1:

An Azure VMware Solution private cloud

Cluster1:

An Azure Migrate project

HOTSPOT

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Your on-premises datacenter contains a server named Server1 that runs Microsoft SQL Server 2022. Server1 contains a 30-TB database named DB1 that stores customer data. Server1 runs a custom application named App1 that verifies the compliance of records in DB1. App1 must run on the same server as DB1.

You have an Azure subscription.

You need to migrate DB1 to Azure. The solution must minimize administrative effort.

To which service should you migrate DB1, and what should you use to perform the migration? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Migrate to:

- Azure SQL Database
- Azure SQL Managed Instance
- SQL Server on Azure Virtual Machines

By using:

- Azure Database Migration Service
- Azure Migrate
- The Azure SQL Migration extension for Azure Data Studio

Correct Answer: Migrate to:

- Azure SQL Database
- Azure SQL Managed Instance
- SQL Server on Azure Virtual Machines

By using:

- Azure Database Migration Service
- Azure Migrate
- The Azure SQL Migration extension for Azure Data Studio

You need to design a highly available Azure SQL database that meets the following requirements:

- Failover between replicas of the database must occur without any data loss.
- The database must remain available in the event of a zone outage.
- Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Managed Instance Business Critical
- B. Azure SQL Database Business Critical
- C. Azure SQL Database Basic
- D. Azure SQL Database Standard

Correct Answer: B

Community vote distribution

B (100%)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- A. Azure Log Analytics
- B. Azure Arc
- C. Azure Monitor metrics
- D. Azure Monitor action groups

Correct Answer: A

Community vote distribution

A (100%)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- A. Azure Log Analytics
- B. Azure Arc
- C. Azure Analysis Services
- D. Azure Monitor action groups

Correct Answer: A

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- A. Azure Log Analytics
- B. Azure Analysis Services
- C. Azure Monitor metrics
- D. Azure Monitor action groups

Correct Answer: A

You need to design a highly available Azure SQL database that meets the following requirements:

- Failover between replicas of the database must occur without any data loss.
- The database must remain available in the event of a zone outage.
- Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Database Business Critical
- B. Azure SQL Database Premium
- C. Azure SQL Database Basic
- D. Azure SQL Database Hyperscale

Correct Answer: A

Community vote distribution

B (100%)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- A. Application Insights
- B. Azure Analysis Services
- C. Azure Advisor
- D. Azure Log Analytics

Correct Answer: D

HOTSPOT

-

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
contoso.com	Azure Private DNS zone	None
VNet1	Virtual network	Linked to contoso.com Peered with VNet2
VNet2	Virtual network	Linked to contoso.com Peered with VNet1
VNet3	Virtual network	Linked to contoso.com Isolated from VNet1 and VNet2
Workspace1	Log Analytics workspace	Stores logs collected from the virtual machines on all the virtual networks

VNet1, VNet2, and VNet3 each has multiple virtual machines connected. The virtual machines use the Azure DNS service for name resolution.

You need to recommend an Azure Monitor log routing solution that meets the following requirements:

- Ensures that the logs collected from the virtual machines and sent to Workspace1 are routed over the Microsoft backbone network
- Minimizes administrative effort

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

Answer Area

Minimum number of Azure Monitor Private Link Scope (AMPLS) objects:

1

2

3

Minimum number of private endpoints:

1

2

3

Answer Area

Minimum number of Azure Monitor Private Link Scope (AMPLS) objects:

1
2
3

Correct Answer:

Minimum number of private endpoints:

1
2
3

Question #125

Topic 4

You need to design a highly available Azure SQL database that meets the following requirements:

- Failover between replicas of the database must occur without any data loss.
- The database must remain available in the event of a zone outage.
- Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Database Standard
- B. Azure SQL Managed Instance Business Critical
- C. Azure SQL Database Serverless
- D. Azure SQL Database Premium

Correct Answer: B

Community vote distribution

D (100%)

HOTSPOT

-

You have 100 Azure Storage accounts.

Access to the accounts is restricted by using Azure role-based access control (Azure RBAC) assignments.

You need to recommend a solution that uses role assignment conditions based on the tags assigned to individual resources within the storage accounts.

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

Answer Area

Implement role assignment conditions by using:

Access control lists (ACLs)
Attribute-based access control (ABAC)
Shared access signatures (SAS)

Assign permissions to:

Blobs
Files
Tables

Correct Answer:

Implement role assignment conditions by using:

Access control lists (ACLs)
Attribute-based access control (ABAC)
Shared access signatures (SAS)

Assign permissions to:

Blobs
Files
Tables

You are developing a sales application that will contain several Azure cloud services and handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using XML messages.

What should you include in the recommendation?

- A. Azure Service Fabric
- B. Azure Notification Hubs
- C. Azure Service Bus
- D. Azure Traffic Manager

Correct Answer: C

Introductory Info

Case Study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs When you are ready to answer a question, click the Question button to return to the question.

Overview -

Litware, Inc. is a medium-sized finance company that has a main office in Boston.

Existing Environment -

Identity Environment -

The network contains an Active Directory forest named litware.com that is linked to an Azure Active Directory (Azure AD) tenant named litware.com. All users have Azure Active Directory Premium P2 licenses.

Litware has a second Azure AD tenant named dev.litware.com that is used as a development environment.

The litware.com tenant has a Conditional Access policy named Capolicy1. Capolicy1 requires that when users manage the Azure subscription for a production environment by using the Azure portal, they must connect from a hybrid Azure AD-joined device.

Azure Environment -

Litware has 10 Azure subscriptions that are linked to the Litware.com tenant and five Azure subscriptions that are linked to the dev.litware.com tenant. All the subscriptions are in an Enterprise Agreement (EA).

The litware.com tenant contains a custom Azure role-based access control (Azure RBAC) role named Role1 that grants the DataActions read permission to the blobs and files in Azure Storage.

On-Premises Environment -

The on-premises network of Litware contains the resources shown in the following table.

Name	Type	Configuration
SERVER1 SERVER2 SERVER3	Ubuntu 18.04 virtual machines hosted on Hyper-V	The virtual machines host a third-party app named App1. App1 uses an external storage solution that provides Apache Hadoop-compatible data storage. The data storage supports POSIX access control list (ACL) file-level permissions.
SERVER10	Server that runs Windows Server 2016	The server contains a Microsoft SQL Server instance that hosts two databases named DB1 and DB2.

Network Environment -

Litware has ExpressRoute connectivity to Azure.

Planned Changes and Requirements

Planned Changes -

Litware plans to implement the following changes:

Migrate DB1 and DB2 to Azure.

Migrate App1 to Azure virtual machines.

Migrate the external storage used by App1 to Azure Storage.

Deploy the Azure virtual machines that will host App1 to Azure dedicated hosts.

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Authentication and Authorization Requirements

Litware identifies the following authentication and authorization requirements:

Only users that manage the production environment by using the Azure portal must connect from a hybrid Azure AD-joined device and authenticate by using

Azure Multi-Factor Authentication (MFA).

The Network Contributor built-in RBAC role must be used to grant permissions to the network administrators for all the virtual networks in all the Azure subscriptions.

To access the resources in Azure, App1 must use the managed identity of the virtual machines that will host the app.

RBAC roles must be applied to management groups.

Resiliency Requirements -

Litware identifies the following resiliency requirements:

Once migrated to Azure, DB1 and DB2 must meet the following requirements:

- Maintain availability if two availability zones in the local Azure region fail.

- Fail over automatically.

- Minimize I/O latency.

App1 must meet the following requirements:

- Be hosted in an Azure region that supports availability zones.

- Be hosted on Azure virtual machines that support automatic scaling.

- Maintain availability if two availability zones in the local Azure region fail.

Security and Compliance Requirements

Litware identifies the following security and compliance requirements:

Once App1 is migrated to Azure, you must ensure that new data can be written to the app, and the modification of new and existing data is prevented for a period of three years.

On-premises users and services must be able to access the Azure Storage account that will host the data in App1.

Access to the public endpoint of the Azure Storage account that will host the App1 data must be prevented.

All Azure SQL databases in the production environment must have Transparent Data Encryption (TDE) enabled.

App1 must NOT share physical hardware with other workloads.

Business Requirements -

Litware identifies the following business requirements:

Minimize administrative effort.

Minimize costs.

-

Question

HOTSPOT -

You need to ensure that users managing the production environment are registered for Azure MFA and must authenticate by using Azure MFA when they sign in to the Azure portal. The solution must meet the authentication and authorization requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To register the users for Azure MFA, use:

Azure AD Identity Protection

Security defaults in Azure AD

Azure AD authentication methods policy

To enforce Azure MFA authentication, configure:

Grant control in capolicy1

Session control in capolicy1

Sign-in risk policy in Azure AD Identity Protection for the Litware.com.tenant

Correct Answer:

Answer Area

To register the users for Azure MFA, use:

Azure AD Identity Protection

Security defaults in Azure AD

Azure AD authentication methods policy

To enforce Azure MFA authentication, configure:

Grant control in capolicy1

Session control in capolicy1

Sign-in risk policy in Azure AD Identity Protection for the Litware.com.tenant

Box 1: Azure AD Identity Protection

Only users that manage the production environment by using the Azure portal must connect from a hybrid Azure AD-joined device and authenticate by using Azure Multi-Factor Authentication (MFA).

Note: Policy configuration -

- 1. Navigate to the Azure portal.
- 2. Browse to Azure Active Directory > Security > Identity Protection > MFA registration policy.
- 3. Under Assignments
- 4. Users - Choose All users or Select individuals and groups if limiting your rollout.
- 5. Optionally you can choose to exclude users from the policy.
- 6. Enforce Policy - On
- 7. Save

Box 2: Grant control in capolicy1

The litware.com tenant has a Conditional Access policy named Capolicy1. Capolicy1 requires that when users manage the Azure subscription for a production environment by using the Azure portal, they must connect from a hybrid Azure AD-joined device.

Note: We need to configure the policy conditions for capolicy1 that prompt for MFA.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-identity-protection-configure-mfa-policy>

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-enable-azure-mfa>