

Microsoft Azure Administrator

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TESTLET-1.

Litware, inc.

Overview

Litware, Ltd. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

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Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named Litware.onmicrosoft.com. The tenant uses the P1 pricing tier.

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New users are added frequently.

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Litware has data centers in the Montreal and Seattle offices. Each data center has a firewall that can be configured as a VPN device.

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Name	Role	Contains virtual
Server1	VMWare vCenter server	VM1
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Litware uses two web applications named App1 and App2. Each instance on each web application requires 1GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
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The network security team implements several network security groups (NSGs).

Planned Changes

Litware plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office.
- Migrate the virtual machines hosted on Server1 and Server2 to Azure.
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).
- Migrate App1 and App2 to two Azure web apps named webApp1 and WebApp2.

Technical requirements

Litware must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instance*.
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.
- Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.Litware.com.
- Connect the New Your office to VNet1 over the Internet by using an encrypted connection.
- Create a workflow to send an email message when the settings of VM4 are modified.
- Create a custom Azure role named Role1 that is based on the Reader role.
- Minimize costs whenever possible.

Question 1

You discover that VM3 does NOT meet the technical requirements.

You need to verify whether the issue relates to the NSGs.

What should you use?

Options:

- Diagram in VNet1
- the security recommendations in Azure Advisor

- C. Diagnostic settings in Azure Monitor
- D. Diagnose and solve problems in Traffic Manager Profiles
- E. IP flow verify in Azure Network Watcher

Explanation:

Answer: E

Explanation:

Litware must meet technical requirements including:

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

Reference:

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview>

Explanation:

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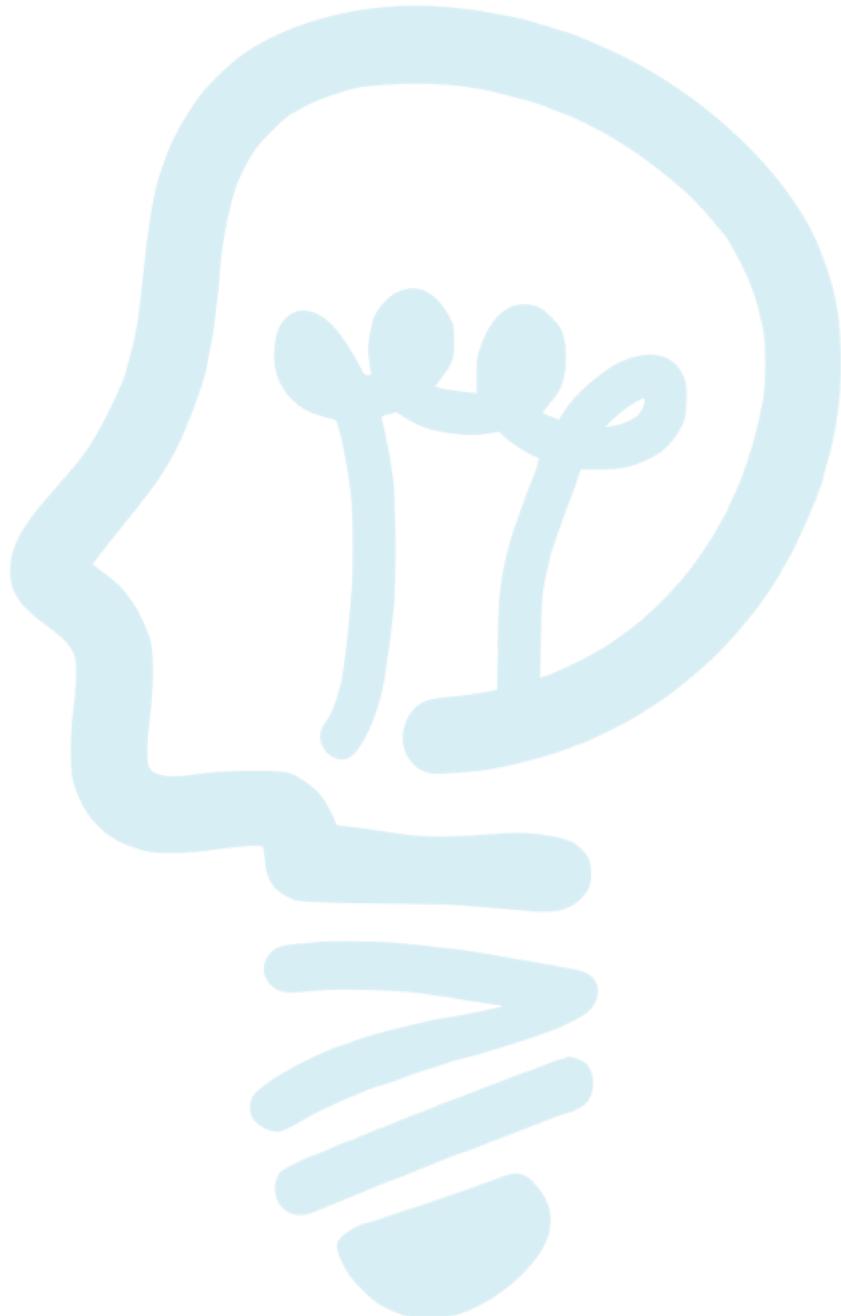
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Question 2

You need to meet the technical requirement for VM4.

What should you create and configure?

Options:

- A. an Azure Notification Hub
- B. an Azure Event Hub
- C. an Azure Logic App

D. an Azure services Bus

Explanation:

Answer: B

Explanation:

ate a workflow to send an email message when the settings of VM4 are modified.

You can start an automated logic app workflow when specific events happen in Azure resources or third-party resources. These resources can publish those events to an Azure event grid. In turn, the event grid pushes those events to subscribers that have queues, webhooks, or event hubs as endpoints. As a subscriber, your logic app can wait for those events from the event grid before running automated workflows to perform tasks - without you writing any code.

Reference:

<https://docs.microsoft.com/en-us/azure/event-grid/monitor-virtual-machine-changes-event-grid-logic-app>

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Question 3

You need to recommend a solution to automate the configuration for the finance department users.

The solution must meet the technical requirements.

What should you include in the recommended?

Options:

- A. Azure AP B2C
- B. Azure AD Identity Protection
- C. an Azure logic app and the Microsoft Identity Management (MIM) client
- D. dynamic groups and conditional access policies

Explanation:

Answer: D

Explanation:

The finance department needs to migrate their users from AD to AAD using AADC based on the finance OU, and need to enforce MFA use. This is conditional access policy. Employees also often get promotions and/or join other departments and when that occurs, the user's OU attribute will change when the admin puts the user in a new OU, and the dynamic group conditional access exception (OU= [Department Name Value]) will move the user to the appropriate dynamic group on next AADC delta sync.

<https://docs.microsoft.com/en-us/azure/active-directory/enterprise-users/groups-dynamic-membership>

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview>

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

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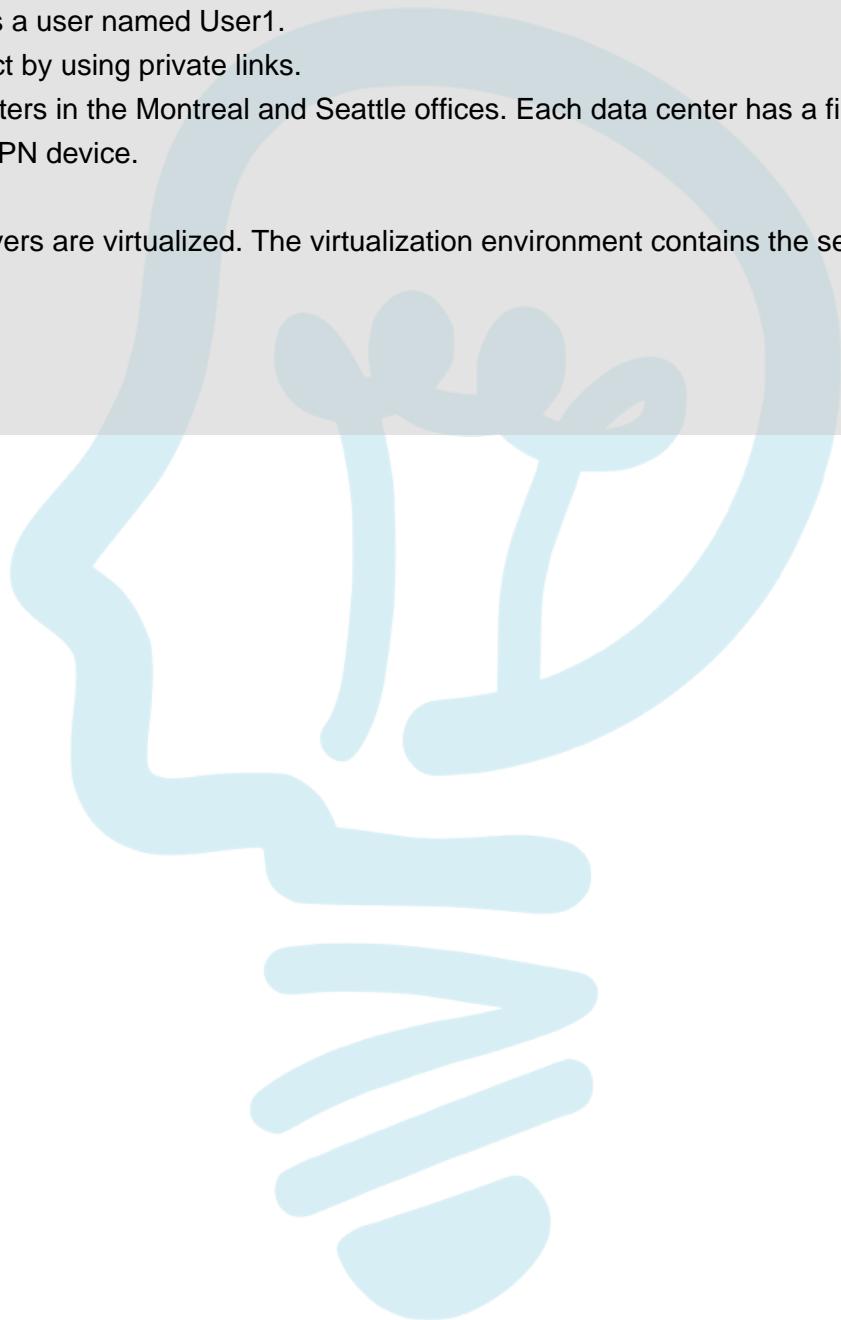
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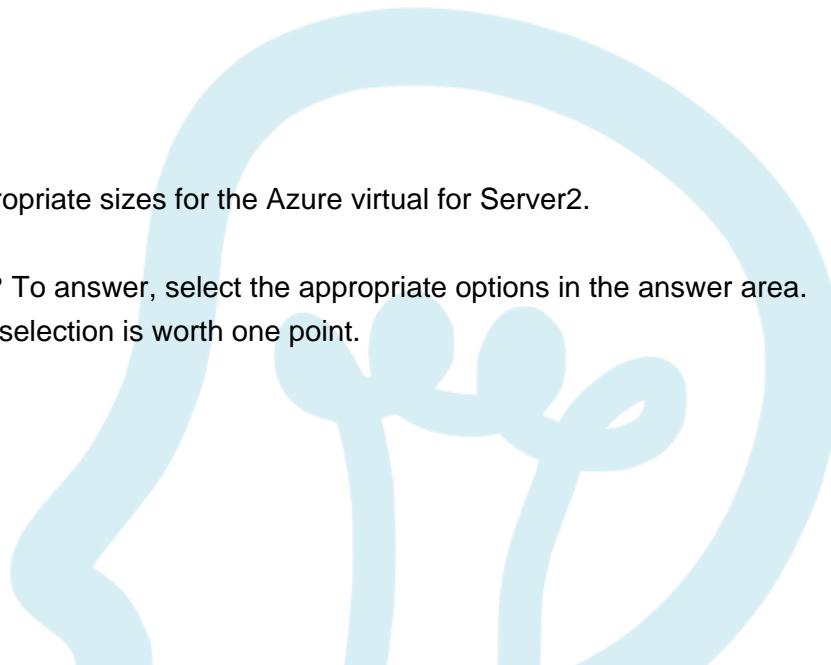
Question 4

HOTSPOT

You need to determine the appropriate sizes for the Azure virtual for Server2.

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

NOTE: Each correct selection is worth one point.



From the Azure portal:

Create an Azure Migrate project.
Create a Recovery Services vault.
Upload a management certificate.
Create an Azure Import/Export job.

On Server2:

Enable Hyper-V Replica.
Install the Azure File Sync agent.
Create a collector virtual machine.
Configure Hyper-V storage migration.
Install the Azure Site Recovery Provider.

Explanation:

Options:

A.

From the Azure portal:

- Create an Azure Migrate project.
- Create a Recovery Services vault.**
- Upload a management certificate.
- Create an Azure Import/Export job.

On Server2:

- Enable Hyper-V Replica.
- Install the Azure File Sync agent.
- Create a collector virtual machine.
- Configure Hyper-V storage migration.
- Install the Azure Site Recovery Provider.**

Answer: A

Explanation:

a Recovery Services vault

Create a Recovery Services vault on the Azure Portal.

Box 2: Install the Azure Site Recovery Provider

Azure Site Recovery can be used to manage migration of on-premises machines to Azure.

Scenario: Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Server2 has the Hyper-V host role.

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/migrate-tutorial-on-premises-azure>

Explanation:

<https://www.certification-questions.com>

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Question 5

HOTSPOT

You need to meet the connection requirements for the New York office.

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

NOTE: Each correct selection is worth one point.

Answer Area

From the Azure portal:

- Create an ExpressRoute circuit only.
- Create a virtual network gateway only.
- Create a virtual network gateway and a local network gateway.
- Create an ExpressRoute circuit and an on-premises data gateway.
- Create a virtual network gateway and an on-premises data gateway.

In the New York office:

- Deploy ExpressRoute.
- Deploy a DirectAccess server.
- Implement a Web Application Proxy.
- Configure a site-to-site VPN connection.

Explanation:

Options:

A.

From the Azure portal:

- Create an ExpressRoute circuit only.
- Create a virtual network gateway only.
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- Create an ExpressRoute circuit and an on-premises data gateway.
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In the New York office:

- Deploy ExpressRoute.
- Deploy a DirectAccess server.
- Implement a Web Application Proxy.
- Configure a site-to-site VPN connection.**

Answer: A

Explanation:

a virtual network gateway and a local network gateway.

Azure VPN gateway. The VPN gateway service enables you to connect the VNet to the on-premises network through a VPN appliance. For more information, see Connect an on-premises network to a Microsoft Azure virtual network. The VPN gateway includes the following elements:

Virtual network gateway. A resource that provides a virtual VPN appliance for the VNet. It is responsible for routing traffic from the on-premises network to the VNet.

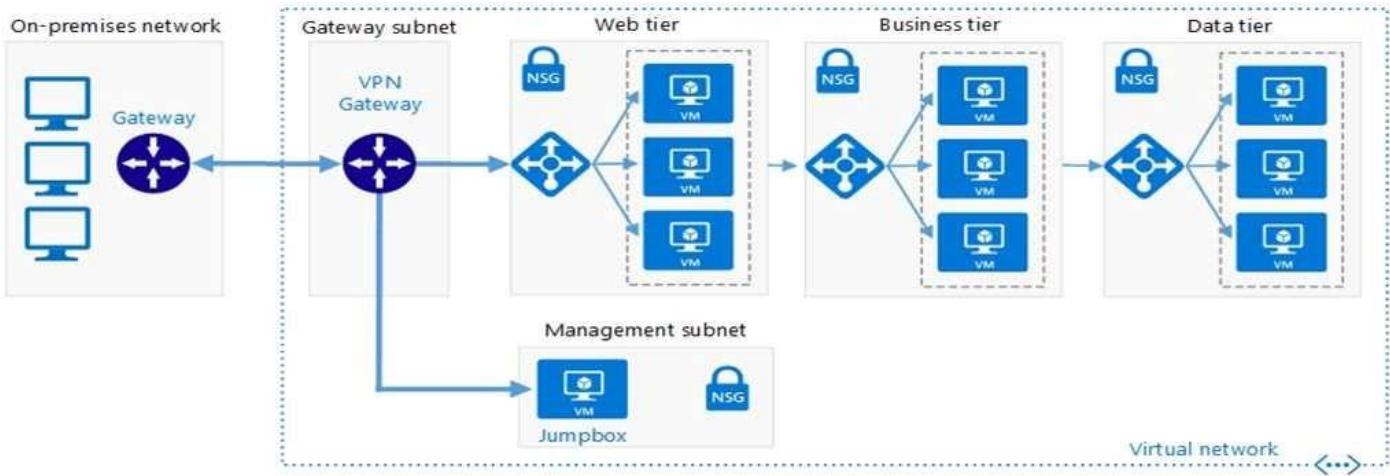
Local network gateway. An abstraction of the on-premises VPN appliance. Network traffic from the cloud application to the on-premises network is routed through this gateway.

Connection. The connection has properties that specify the connection type (IPSec) and the key shared with the on-premises VPN appliance to encrypt traffic.

Gateway subnet. The virtual network gateway is held in its own subnet, which is subject to various requirements, described in the Recommendations section below.

Box 2: Configure a site-to-site VPN connection

On premises create a site-to-site connection for the virtual network gateway and the local network gateway.



Scenario: Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Incorrect Answers:

Azure ExpressRoute: Established between your network and Azure, through an ExpressRoute partner. This connection is private. Traffic does not go over the internet.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/vpn>

Explanation:

DRAG DROP

You need to prepare the environment to ensure that the web administrators can deploy the web apps as quickly as possible.

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.

[PIC-14-1038023236]

Explanation:

Question 6

DRAG DROP

You need to prepare the environment to ensure that the web administrators can deploy the web apps as quickly as possible.

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

From the Templates service, select the template, and then share the template to the web administrators.

Create a resource group, and then deploy a web app to the resource group.

From the Automation script blade of the resource group, click the **Parameters** tab.

From the Automation script blade of the resource group, click **Deploy**.

From the Automation Accounts service, add an automation account.

From the Automation script blade of the resource group, click **Add to library**.

Answer Area



Explanation:

Options:

A.

Actions

From the Automation script blade of the resource group, click **Deploy**.

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From the Automation script blade of the resource group, click **Add to library**.

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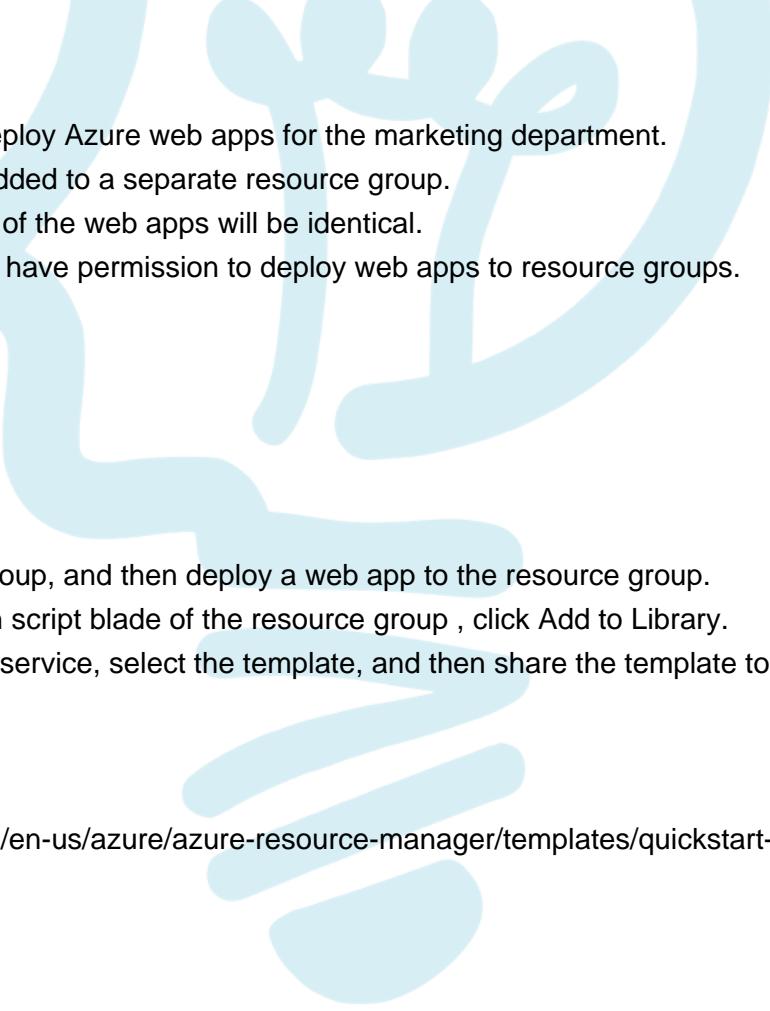
From the Automation script blade of the resource group, click **Add to library**.

From the Templates service, select the template, and then share the template to the web administrators.

Answer: A**Explanation:**

Web administrators will deploy Azure web apps for the marketing department.

2. Each web app will be added to a separate resource group.
3. The initial configuration of the web apps will be identical.
4. The web administrators have permission to deploy web apps to resource groups.



Steps:

- 1 --> Create a resource group, and then deploy a web app to the resource group.
- 2 --> From the Automation script blade of the resource group , click Add to Library.
- 3 --> From the Templates service, select the template, and then share the template to the web administrators .

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/quickstart-create-templates-use-the-portal>

Explanation:

Which blade should you instruct the finance department auditors to use?

Question 7

Which blade should you instruct the finance department auditors to use?

Options:

- A. Partner information
- B. Overview
- C. Payment methods
- D. Invoices

Explanation:

Answer: D

Explanation:

In and configure additional recipients to receive your Azure invoice in an email. This feature may not be available for certain subscriptions such as support offers, Enterprise Agreements, or Azure in Open.

Select your subscription from the Subscriptions page. Opt-in for each subscription you own. Click Invoices then Email my invoice.

The screenshot shows the Microsoft Azure portal's 'Invoices' blade. At the top, there are two buttons: 'Older invoices' and 'Send my invoice'. The 'Send my invoice' button has a cursor pointing at it. A blue banner at the top right contains the text 'Amount excludes non-Microsoft services.' Below the banner is a table with the following data:

BILLING PERIOD	CHARGE DATE	AMOUNT (USD)	IN
12/12/2016-1/11/2017	1/18/2017	0.00	N
11/12/2016-12/11/2016	12/18/2016	0.00	N
10/12/2016-11/11/2016	11/18/2016	0.00	N
9/12/2016-10/11/2016	10/18/2016	0.00	N
8/12/2016-9/11/2016	9/18/2016	0.00	N

Click Opt in and accept the terms.

Scenario: During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Reference: <https://docs.microsoft.com/en-us/azure/billing/billing-download-azure-invoice-daily-usage-date>

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Question 8

You need to ensure that VM1 can communicate with VM4. The solution must minimize administrative effort.

What should you do?

Options:

- Create 2 user-defined route from VNET1 to VNET3.
- Assign VM4 an IP address of 10.0.1.5/24.

- C. Establish peering between VNET1 and VNET3.
- D. Create an NSG and associate the NSG to VMI and VM4.

Explanation:

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/tutorial-site-to-site-portal>

Explanation:

HOTSPOT

You implement the planned changes for NSG1 and NSG2.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

[PIC-12-3364349434]

Explanation:

Question 9

HOTSPOT

You implement the planned changes for NSG1 and NSG2.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
From VM1, you can establish a Remote Desktop session to VM2.	<input type="radio"/>	<input type="radio"/>
From VM2, you can ping VM3.	<input type="radio"/>	<input type="radio"/>
From VM2, you can establish a Remote Desktop session to VM3.	<input type="radio"/>	<input type="radio"/>

Explanation:

Options:

A.

Answer Area

Statements	Yes	No
From VM1, you can establish a Remote Desktop session to VM2.	<input checked="" type="radio"/>	<input type="radio"/>
From VM2, you can ping VM3.	<input type="radio"/>	<input checked="" type="radio"/>
From VM2, you can establish a Remote Desktop session to VM3.	<input type="radio"/>	<input checked="" type="radio"/>

Answer: A

TESTLET-4.

Contoso Ltd (Consulting Company)

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

General Overview

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment

Existing Environment

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	None
User2	Guest	None
User3	Member	None
User4	Member	None

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	None

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file shares
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	Not applicable	Not applicable
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements

Planned Changes

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	All

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.

Question 10

HOTSPOT

You need to create storage5. The solution must support the planned changes.

Which type of storage account should you use, and which account should you configure as the destination storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Account kind:

BlobStorage
BlockBlobStorage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Destination:

Storage1
Storage2
Storage3
Storage4

Explanation:

Options:

A.



Account kind:

- BlobStorage
- BlockBlobStorage
- Storage (general purpose v1)
- StorageV2 (general purpose v2)

Destination:

- Storage1
- Storage2
- Storage3
- Storage4

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/storage/blobs/object-replication-configure?tabs=portal>

Explanation:

Would you like to see more? Don't miss our AZ-104 PDF file at:

<https://www.certification-questions.com/microsoft-pdf/az-104-pdf.html>