AZ-104_178Q_July_2020_By_DrunkMonk

Passing Score: 800
Time Limit: 120 min
File Version: 1.0

Exam : AZ-104

Title : Microsoft Azure Administrator

Vendor : Microsoft

Exam Compiled By DrunkMonk July 2020

Sections
1. Multiple Choice
2. Drag & Drop
3. Hotspot
4. Single Select
5. Topic 1 - Litware Inc.
6. Topic 2 - Humongous Insurance
7. Topic 3 - Contoso Ltd

Exam A

QUESTION 1
Topic 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.

All the resources used by Litware are hosted on-premises. 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.

Existing Environment

The network contains an Active Directory forest named Litware.com. All domain controllers are configured as DNS servers and host the Litware.com DNS zone.
Litware has finance, human resources, sales, research, and information technology departments.
Each department has an organizational unit (OU) that contains all the accounts of that respective department.
All the user accounts have the department attribute set to their respective department.
New users are added frequently.
Litware.com contains a user named User1.
All the offices connect by using private links.
Litware has data centers in the Montreal and Seattle offices.
Each data center has a firewall that can be configured as a VPN device.
All infrastructure servers are virtualized.

The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

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
VM4	Virtual machine

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:

HOTSPOT

You need to prepare the environment to implement the planned changes for Server2.
You need to the appropriate sizes for the Azure virtual for Server2.

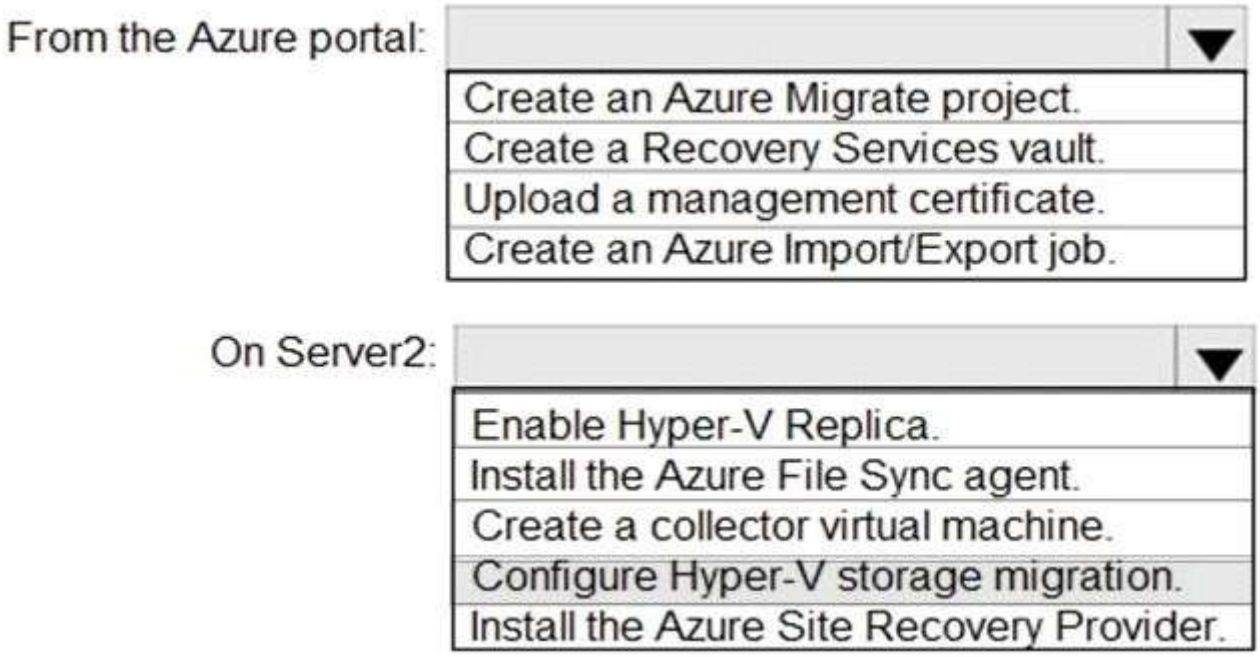
What should you do?

To answer, select the appropriate options in the answer area.

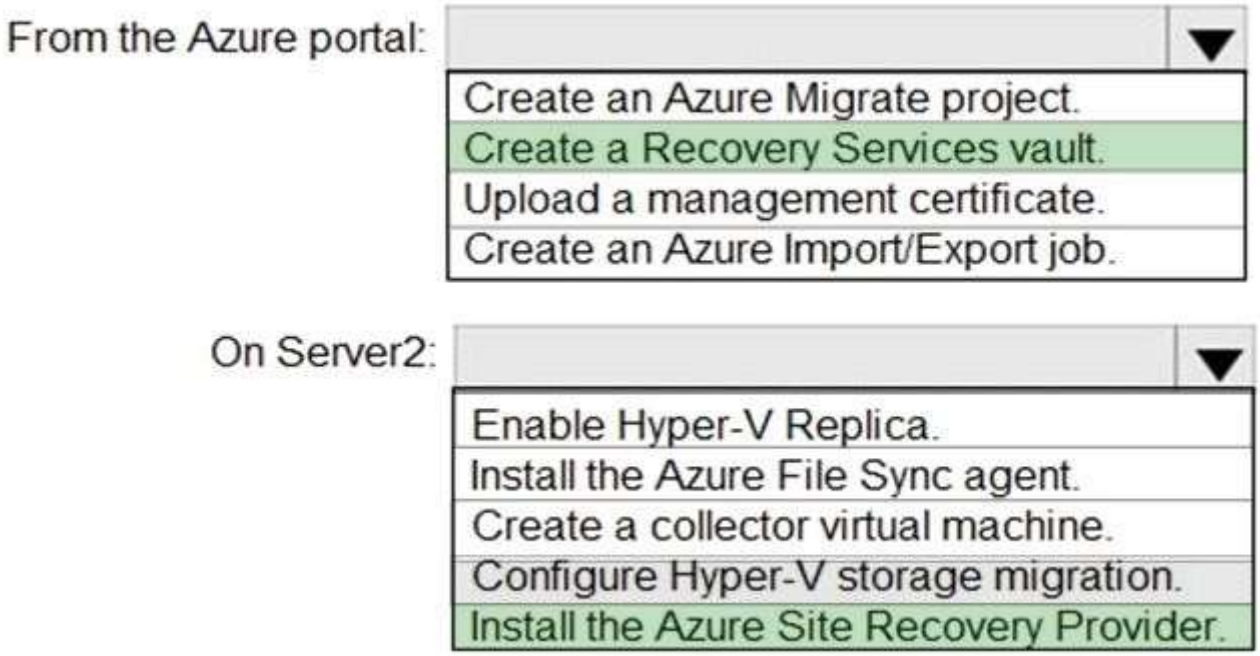
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Topic 1 - Litware Inc.
Explanation

Explanation/Reference:
Explanation:

Box 1: Create 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

QUESTION 2
DRAG & DROP

You have an Azure subscription that contains two virtual networks named VNet1 and VNet2.
Virtual machines connect to the virtual networks.

The virtual networks have the address spaces and the subnets configured as shown in the following table.

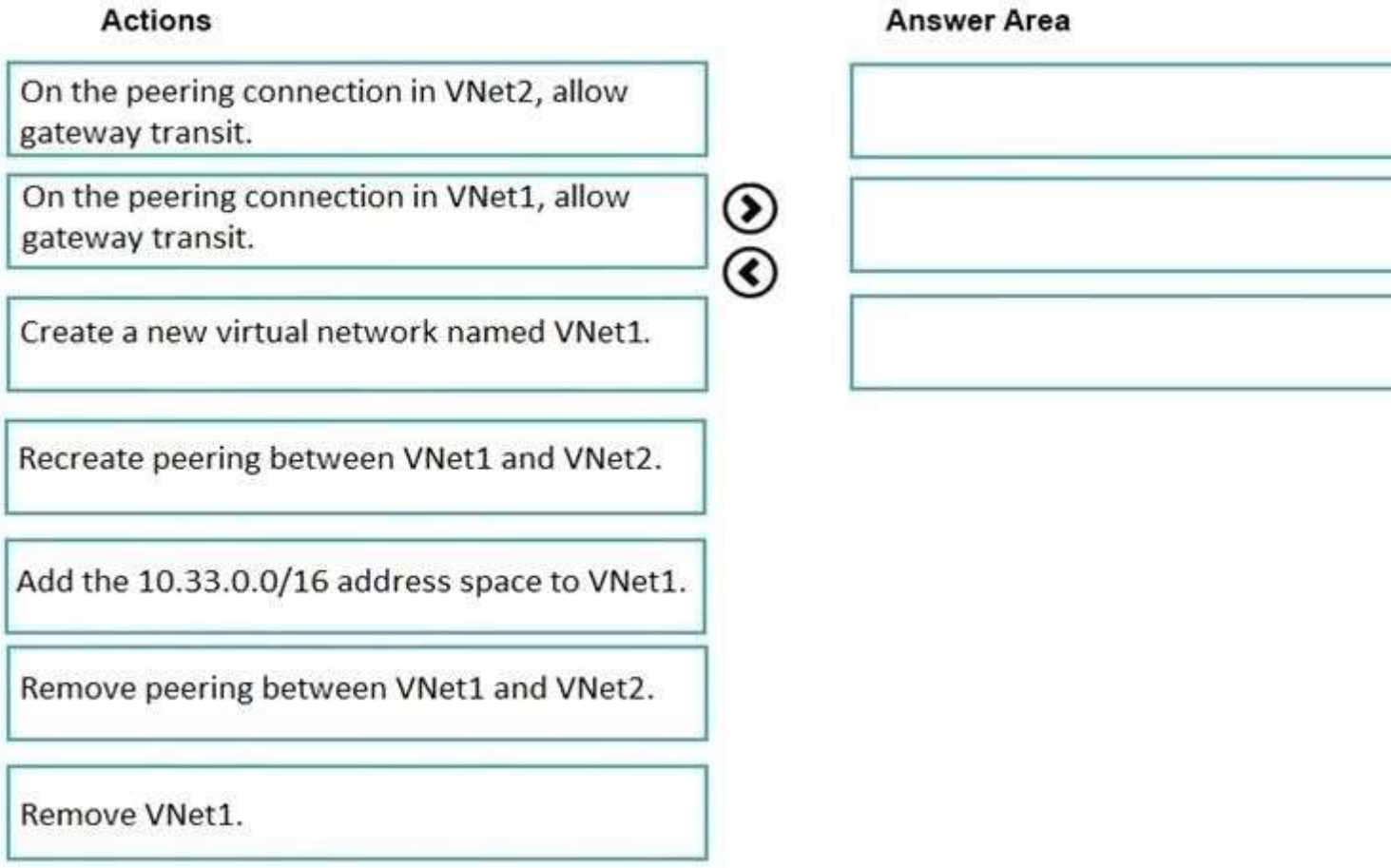
Virtual network	Address space	Subnet	Peering
VNet1	10.1.0.0/16	10.1.0.0/24 10.1.1.0/26	VNet2
VNet2	10.2.0.0/16	10.2.0.0/24	VNet1

You need to add the address space of 10.33.0.0/16 to VNet1.
The solution must ensure that the hosts on VNet1 and VNet2 can communicate.

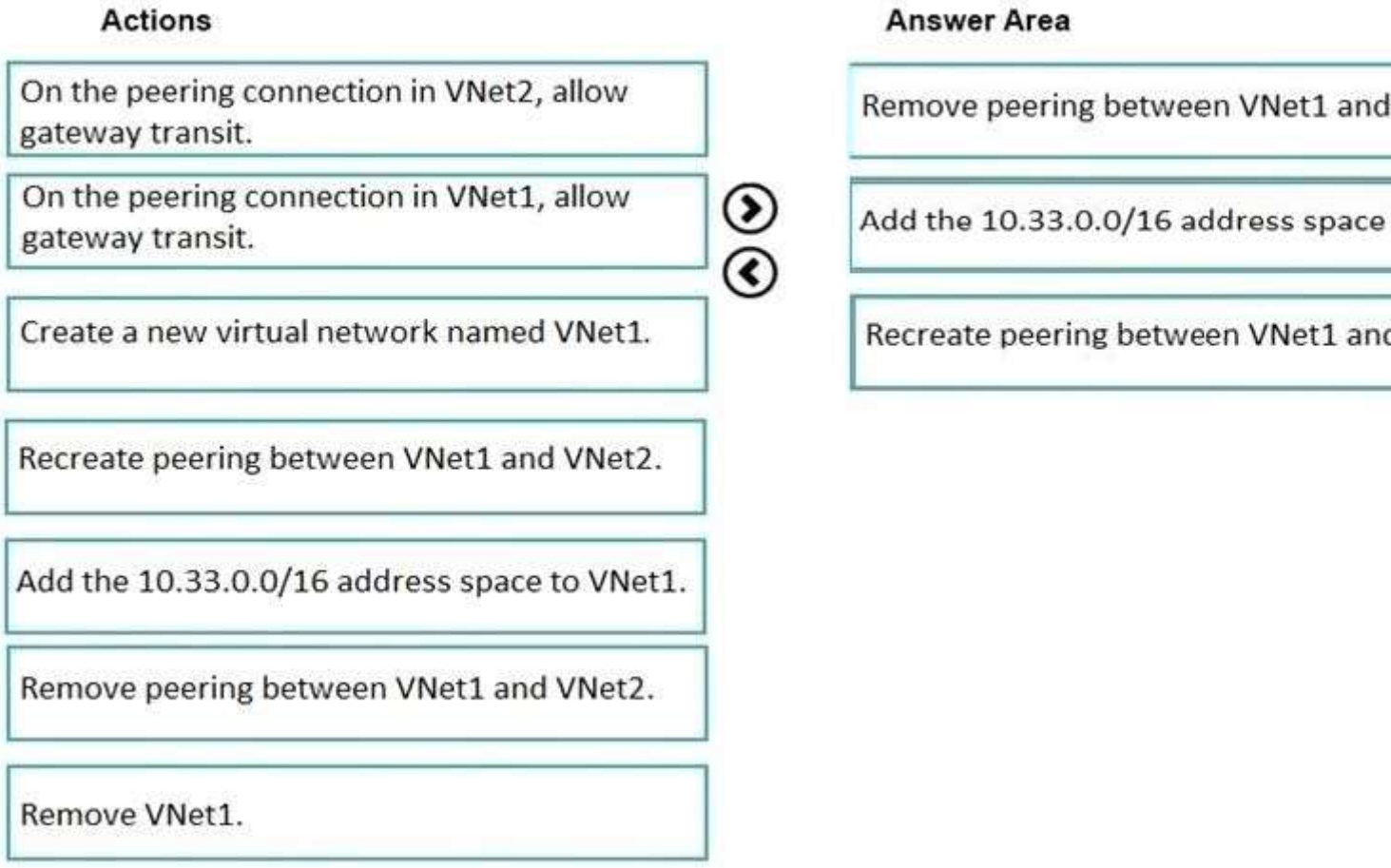
Which three actions should you perform in sequence?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Section: Drag & Drop
Explanation

Explanation/Reference:
Explanation:

You can't add address ranges to, or delete address ranges from a virtual network's address space once a virtual network is peered with another virtual network. To add or remove address ranges, delete the peering, add or remove the address ranges, then re-create the peering.

Step 1: Remove peering between Vnet1 and VNet2.

Step 2: Add the 10.44.0.0/16 address space to VNet1.

Step 3: Recreate peering between VNet1 and VNet2

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering

QUESTION 3
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	East US	*Not applicable*
RG2	Resource group	West Europe	*Not applicable*
RG3	Resource group	North Europe	*Not applicable*
VNET1	Virtual network	Central US	RG1
VM1	Virtual machine	West US	RG2

VM1 connects to a virtual network named VNET2 by using a network interface named NIC1.

You need to create a new network interface named NIC2 for VM1.

Solution:
You create NIC2 in RG1 and West US.

Does this meet the goal?

A. Yes
B. NO

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The virtual machine you attach a network interface to and the virtual network you connect it to must exist in the same location, here West US, also referred to as a region.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

QUESTION 4
You create an App Service plan named App1 and an Azure web app named webapp1.
You discover that the option to create a staging slot is unavailable.
You need to create a staging slot for App1.

What should you do first?

A. From webapp1, modify the Application settings.
B. From webapp1, add a custom domain.
C. From App1, scale up the App Service plan.
D. From App1, scale out the App Service plan.

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Scale up: Get more CPU, memory, disk space, and extra features like dedicated virtual machines (VMs), custom domains and certificates, **staging slots**, autoscaling, and more.

You scale up by changing the pricing tier of the App Service plan that your app belongs to.

Reference:
https://docs.microsoft.com/en-us/azure/app-service/manage-scale-up

QUESTION 5
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure virtual machine named VM1 that runs Windows Server 2016.
You need to create an alert in Azure when more than two error events are logged to the System log on VM1 within an hour.

Solution:
You create an event subscription on VM1.
You create an alert in Azure Monitor and specify VM1 as the source.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Instead: You create an Azure Log Analytics workspace and configure the data settings. You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 6
HOTSPOT

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

Name	Type	Resource group	Tag
RG6	Resource group	*Not applicable*	*None*
VNET1	Virtual network	RG6	Department: D1

You assign a policy to RG6 as shown in the following table:

Section	Setting	Value
Scope	Scope	Subscription1/RG6
	Exclusions	*None*
Basics	Policy definition	Apply tag and its default value
	Assignment name	Apply tag and its default value
Parameters	Tag name	Label
	Tag value	Value1

To RG6, you apply the tag: RGroup: RG6.
You deploy a virtual network named VNET2 to RG6.

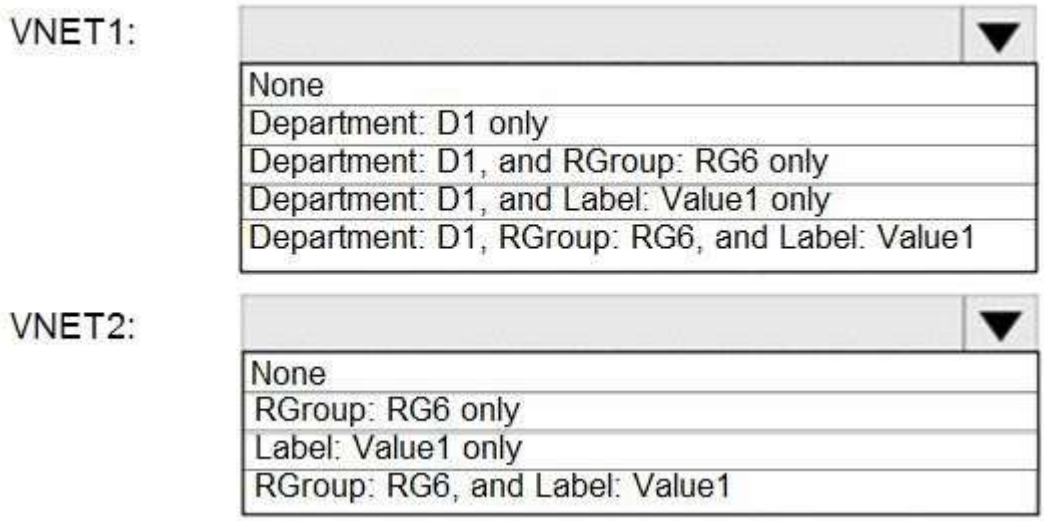
Which tags apply to VNET1 and VNET2?

To answer, select the appropriate options in the answer area .

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:

VNET1:

None
Department: D1 only
Department: D1, and RGroup: RG6 only
Department: D1, and Label: Value1 only
Department: D1, RGroup: RG6, and Label: Value1

VNET2:

None
RGroup: RG6 only
Label: Value1 only
RGroup: RG6, and Label: Value1

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

VNET1: Department: D1, and Label:Value1 only.
Tags applied to the resource group or subscription are not inherited by the resources. Note: Azure Policy allows you to use either built-in or custom-defined policy definitions and assign them to either a specific resource group or across a whole Azure subscription.

VNET2: Label:Value1 only.

Incorrect Answers:

RGROUP: RG6
Tags applied to the resource group or subscription are not inherited by the resources.

Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-policies

QUESTION 7
You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Region	Resource group
RG1	Resource group	West Europe	*Not applicable*
RG2	Resource group	North Europe	*Not applicable*
Vault1	Recovery Services vault	West Europe	RG1

You create virtual machines in Subscription1 as shown in the following table.

Name	Resource group	Region	Operating system
VM1	RG1	West Europe	Windows Server 2016
VM2	RG1	North Europe	Windows Server 2016
VM3	RG2	West Europe	Windows Server 2016
VMA	RG1	West Europe	Ubuntu Server 18.04
VMB	RG1	North Europe	Ubuntu Server 18.04
VMC	RG2	West Europe	Ubuntu Server 18.04

You plan to use Vault1 for the backup of as many virtual machines as possible.
Which virtual machines can be backed up to Vault1?

A. VM1, VM3, VMA, and VMC only
B. VM1 and VM3 only
C. VM1, VM2, VM3, VMA, VMB, and VMC
D. VM1 only
E. VM3 and VMC only

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

To create a vault to protect virtual machines, the vault must be in the same region as the virtual machines.
If you have virtual machines in several regions, create a Recovery Services vault in each region.

Reference:
https://docs.microsoft.com/bs-cyrl-ba/azure/backup/backup-create-rs-vault

QUESTION 8
Your company has an Azure subscription named Subscription1.
The company also has two on-premises servers named Server1 and Server2 that run Windows Server 2016.
Server1 is configured as a DNS server that has a primary DNS zone named adatum.com.
Adatum.com contains 1,000 DNS records.

You manage Server1 and Subscription1 from Server2. Server2 has the following tools installed:

* The DNS Manager console
* Azure PowerShell
* Azure CLI 2.0

You need to move the adatum.com zone to Subscription1.
The solution must minimize administrative effort

What should you use?

A. AAD
B. Azure CLI
C. the Azure portal
D. the DNS Manager console

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Azure DNS supports importing and exporting zone files by using the Azure command-line interface (CLI). Zone file import is not currently supported via Azure PowerShell or the Azure portal.

Reference:
https://docs.microsoft.com/en-us/azure/dns/dns-import-export

QUESTION 9
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1.
Subscription1 contains a resource group named RG1.
RG1 contains resources that were deployed by using templates.
You need to view the date and time when the resources were created in RG1.

Solution:
From the RG1 blade, you click Automation script.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

From the RG1 blade, click Deployments. You see a history of deployment for the resource group.

Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-tutorial- create-first-template?tabs=azure-powershell

QUESTION 10
HOTSPOT

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

Name	Lock name	Lock type
RG1	None	None
RG2	Lock	Delete

RG1 contains the resources shown in the following table.

Name	Type	Lock name	Lock type
storage1	Storage account	Lock1	Delete
VNET1	Virtual network	Lock2	Read-only
IP1	Public IP address	None	None

RG2 contains the resources shown in the following table.

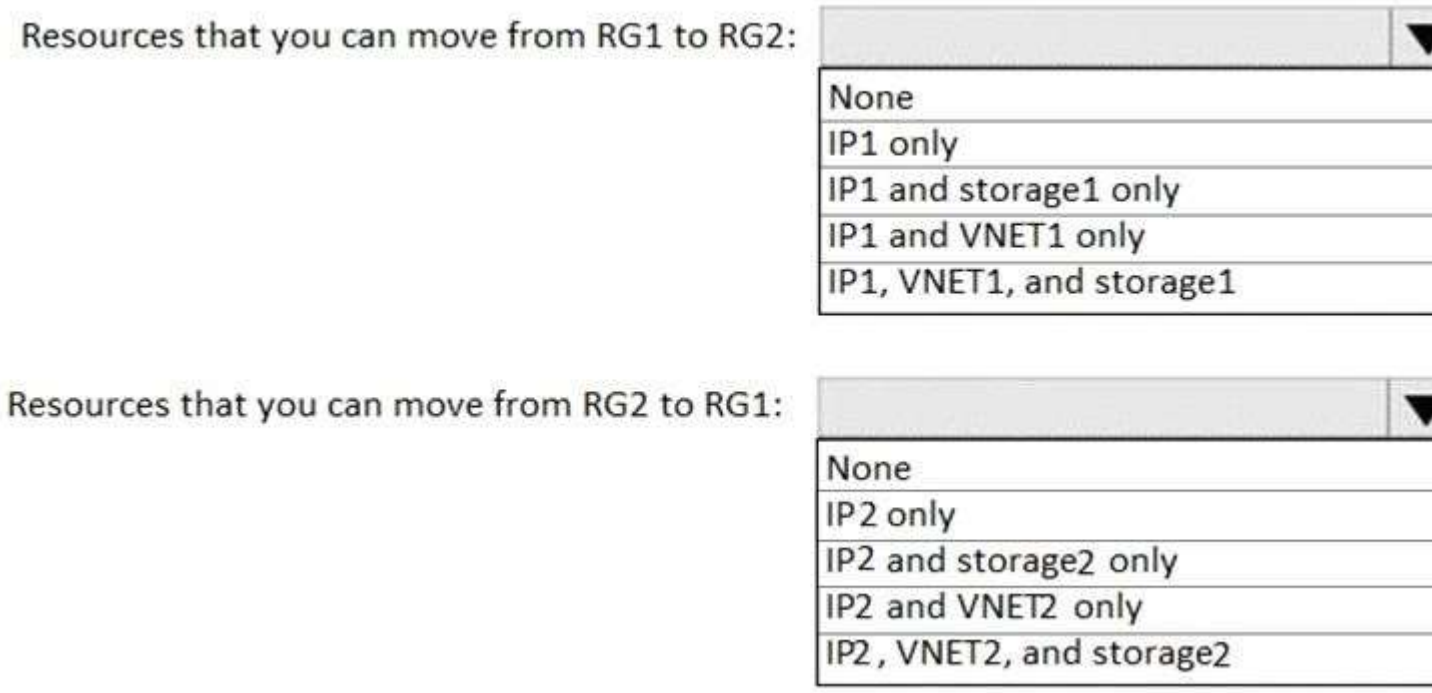
Name	Type	Lock name	Lock type
storage2	Storage account	Lock1	Delete
VNET2	Virtual network	Lock2	Read-only
IP2	Public IP address	None	None

You need to identify which resources you can move from RG1 to RG2, and which resources you can move from RG2 to RG1.
Which resources should you identify?

To answer, select the appropriate options in the answer area.

Hot Area

Hot Area:



Correct Answer:

Resources that you can move from RG1 to RG2:

- None
- IP1 only
- IP1 and storage1 only
- IP1 and VNET1 only
- IP1, VNET1, and storage1

Resources that you can move from RG2 to RG1:

- None
- IP2 only
- IP2 and storage2 only
- IP2 and VNET2 only
- IP2 , VNET2, and storage2

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/governance/blueprints/concepts/resource-locking

QUESTION 11
You have a hybrid infrastructure that contains an Azure Active Directory (Azure AD) tenant named contoso.onmicrosoft.com.

The tenant contains the users shown in the following table.

Name	User name	Type	Source
User1	User1@contoso.onmicrosoft.com	Member	Azure Active Directory
User2	User2@contoso.onmicrosoft.com	Member	Windows Server AD
User3	User3@outlook.com	Guest	Microsoft Account
User4	User4@gmail.com	Guest	Microsoft Account

You plan to share a cloud resource to the All Users group.
You need to ensure that User1, User2, User3, and User4 can connect successfully to the cloud resource.

What should you do first?

A. Create a user account of the member type for User4.
B. Create a user account of the member type for User3.
C. Modify the Directory-wide Groups settings.

D. Modify the External collaboration settings.

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Ensure that "Enable an 'All Users' group in the directory" policy is set to "Yes" in your Azure Active Directory (AD) settings in order to enable the "All Users" group for centralized access administration. This group represents the entire collection of the Active Directory users, including guests and external users, that you can use to make the access permissions easier to manage within your directory.

Incorrect Answers:

A, B: User3 and User4 are guests already.
Note: By default, all users and guests in your directory can invite guests even if they're not assigned to an admin role. External collaboration settings let you turn guest invitations on or off for different types of users in your organization. You can also delegate invitations to individual users by assigning roles that allow them to invite guests.

Reference:
https://www.cloudconformity.com/knowledge-base/azure/ActiveDirectory/enable-all-users-group.html

QUESTION 12
HOTSPOT

You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains the users shown in the following table:

Name	Type	Member of
User1	Member	Group1
User2	Guest	Group1
User3	Member	None
UserA	Member	Group2
UserB	Guest	Group2

User3 is the owner of Group1.
Group2 is a member of Group1.

You configure an access review named Review1 as shown in the following exhibit:

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
User3 can perform an access review of User1	○	○
User3 can perform an access review of UserA	○	○
User3 can perform an access review of UserB	○	○

Correct Answer:

Statements	Yes	No
User3 can perform an access review of User1	○	○
User3 can perform an access review of UserA	○	○
User3 can perform an access review of UserB	○	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/governance/create-access-review

QUESTION 13
You have an Azure Active Directory (Azure AD) tenant named contosocloud.onmicrosoft.com.

Your company has a public DNS zone for contoso.com.
You add contoso.com as a custom domain name to Azure AD.
You need to ensure that Azure can verify the domain name.

Which type of DNS record should you create?

A. PTR
B. MX
C. NSEC3
D. RRSIG

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 14
You have an Azure subscription that contains a resource group named Test RG.

You use TestRG to validate an Azure deployment.

TestRG contains the following resources:

Name	Type	Description
VM1	Virtual Machine	VM1 is running and configured to back up to Vault1 daily.
VAULT1	Recovery Services Vault	Vault1 includes all backups of VM1.
VNET1	Virtual Network	VNET1 has a resource lock of type Delete.

You need to delete TestRG.

What should you do first?

A. Modify the backup configurations of VM1 and modify the resource lock type of VNET1.
B. Turn off VM1 and delete all data in Vault1.
C. Remove the resource lock from VNET1 and delete all data in Vault1. D.
D. Turn off VM1 and remove the resource lock from VNET1.

Correct Answer:
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

When you want to delete the resource, you first need to remove the lock.

Reference:
https://docs.microsoft.com/sv-se/azure/azure-resource-manager/management/lock-resources

QUESTION 15
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains the following resources:

* A virtual network that has a subnet named Subnet1
* Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1
* A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections NSG-Subnet1 has the default inbound security rules only. NSG-VM1 has the default inbound security rules and the following custom inbound security rule:
* Priority: 100
* Source: Any
* Source port range: *

* Destination: *
* Destination port range: 3389
* Protocol: UDP
* Action: Allow

VM1 connects to Subnet1. NSG1-VM1 is associated to the network interface of VM1.
NSG-Subnet1 is associated to Subnet1.
You need to be able to establish Remote Desktop connections from the internet to VM1.

Solution:
You modify the custom rule for NSG-VM1 to use the internet as a source and TCP as a protocol.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.
Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/troubleshoot-rdp-connection

QUESTION 16
HOTSPOT

You have a sync group that has the endpoints shown in the following table.

Name	Type
Endpoint1	Cloud endpoint
Endpoint2	Server endpoint
Endpoint3	Server endpoint

Cloud tiering is enabled for Endpoint3.
You add a file named File1 to Endpoint1 and a file named File2 to Endpoint2.
You need to identify on which endpoints File1 and File2 will be available within 24 hours of adding the files.

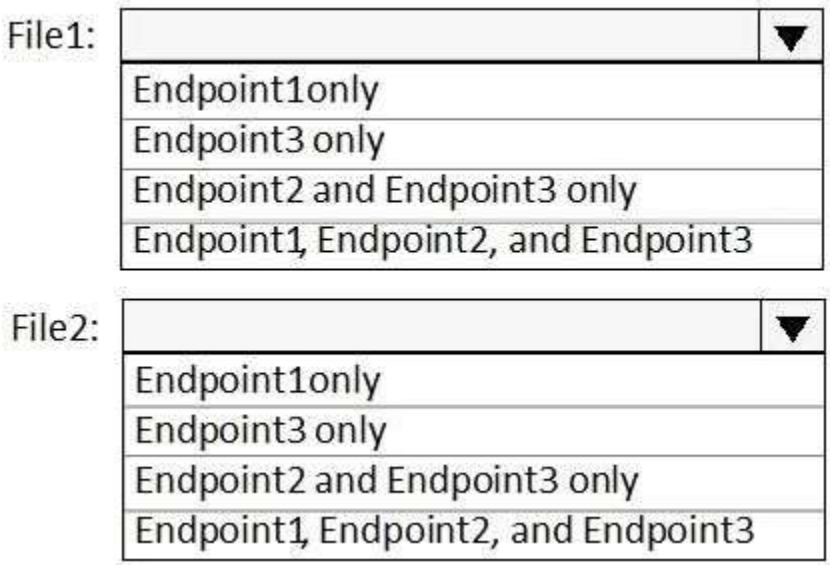
What should you identify?

To answer, select the appropriate options in the answer area.

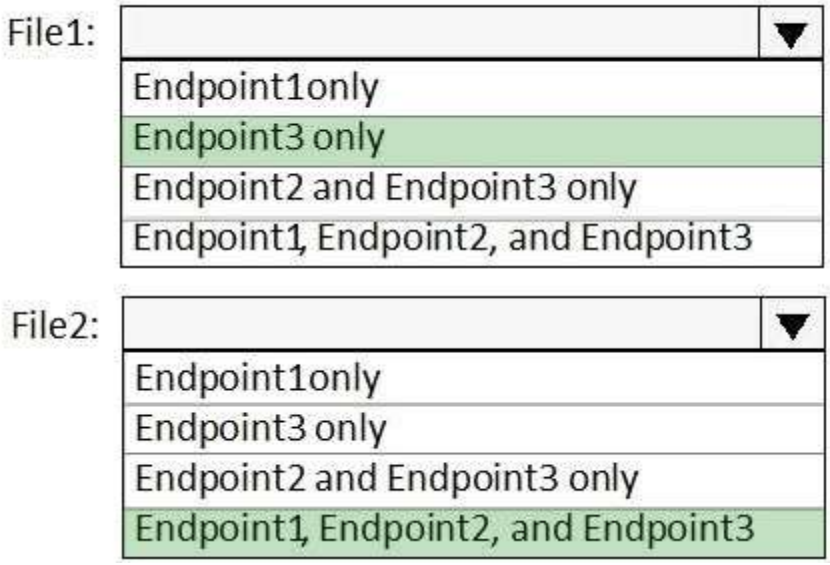
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

File1: Endpoint3 only
Cloud Tiering: A switch to enable or disable cloud tiering. When enabled, cloud tiering will tier files to your Azure file shares. This converts on-premises file shares into a cache, rather than a complete copy of the dataset, to help you manage space efficiency on your server. With cloud tiering, infrequently used or accessed files can be tiered to Azure Files.

File2: Endpoint1, Endpoint2, and Endpoint3

Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-cloud-tiering

QUESTION 17
You need to resolve the Active Directory issue.

What should you do?

Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators

have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

A. From Active Directory Users and Computers, select the user accounts, and then modify the User Principal Name value.
B. Run idfix.exe, and then use the Edit action.
C. From Active Directory Domains and Trusts, modify the list of UPN suffixes.
D. From Azure AD Connect, modify the outbound synchronization rule.

Correct Answer: B
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

IdFix is used to perform discovery and remediation of identity objects and their attributes in an on- premises Active Directory environment in preparation for migration to Azure Active Directory.
IdFix is intended for the Active Directory administrators responsible for directory synchronization with Azure Active Directory.

Scenario:
Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Reference:
https://www.microsoft.com/en-us/download/details.aspx?id=36832

QUESTION 18
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains the following resources:

* A virtual network that has a subnet named Subnet1
* Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1
* A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections NSG-Subnet1 has the default inbound security rules only. NSG-VM1 has the default inbound security rules and the following custom inbound security rule:
* Priority: 100
* Source: Any
* Source port range: *
* Destination: *
* Destination port range: 3389
* Protocol: UDP
* Action: Allow

VM1 connects to Subnet1. NSG1-VM1 is associated to the network interface of VM1.
NSG-Subnet1 is associated to Subnet1.

You need to be able to establish Remote Desktop connections from the internet to VM1.

Solution:
You add an inbound security rule to NSG-Subnet1 and NSG-VM1 that allows connections from the internet source to the VirtualNetwork destination for port range 3389 and uses the TCP protocol.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.
Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/troubleshoot-rdp-connection

QUESTION 19
You have an app named App1 that runs on two Azure virtual machines named VM1 and VM2.
You plan to implement an Azure Availability Set for App1.
The solution must ensure that App1 is available during planned maintenance of the hardware hosting VM1 and VM2.

What should you include in the Availability Set?

A. one update domain
B. two fault domains
C. one fault domain
D. two update domains

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Microsoft updates, which Microsoft refers to as planned maintenance events, sometimes require that VMs be rebooted to complete the update. To reduce the impact on VMs, the Azure fabric is divided into update domains to ensure that not all VMs are rebooted at the same time.

Incorrect Answers:

A: An update domain is a group of VMs and underlying physical hardware that can be rebooted at the same time.
B, C: A fault domain shares common storage as well as a common power source and network switch. It is used to protect against unplanned system failure.

Reference:
https://petri.com/understanding-azure-availability-sets
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-sets

QUESTION 20
HOTSPOT

You have an Azure subscription named Subscription1.

Subscription1 contains the resources in the following table.

Name	Type
RG2	Resource group
VNet1	Virtual network
VNet2	Virtual network
VM5	Virtual machine connected to VNet1
VM6	Virtual machine connected to VNet2

In Azure, you create a private DNS zone named adatum.com.
You set the registration virtual network to VNet2.

The adatum.com zone is configured as shown in the following exhibit.

Resource group (change)
vmrg

Subscription (change)
Azure Pass

Subscription ID
a4fde29b-d56a-4f6c-8298-6c53cd0b720c

Name server 1
-

Name server 2
-

Name server 3
-

Name server 4
-

Tags (change)
Click here to add tags

Search record sets

NAME	TYPE	TTL	VALUE
@	SOA	3600	Email: azuredns-hostmaster.microsoft.com Host: internal.cloudapp.net Refresh: 3600 Retry: 300 Expire:2419200 Minimum TTL: 300 Serial number: 1
vm1	A	3600	10.1.0.4
vm9	A	3600	10.1.0.12

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Answer Area

Statements	Yes	No
The A record for VM5 will be registered automatically in the adatum.com.zone.	○	○
VM5 can resolve VM9.adatum.com.	○	○
VM6 can resolve VM9.adatum.com.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The A record for VM5 will be registered automatically in the adatum.com.zone.	○	○
VM5 can resolve VM9.adatum.com.	○	○
VM6 can resolve VM9.adatum.com.	○	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: No
Azure DNS provides automatic registration of virtual machines from a single virtual network that's linked to a private zone as a registration virtual network. VM5 does not belong to the registration virtual network though.

Box 2: No
Forward DNS resolution is supported across virtual networks that are linked to the private zone as resolution virtual networks. VM5 does belong to a resolution virtual network.

Box 3: Yes
VM6 belongs to registration virtual network, and an A (Host) record exists for VM9 in the DNS zone. By default, registration virtual networks also act as resolution virtual networks, in the sense that DNS resolution against the zone works from any of the virtual machines within the registration virtual network.

Reference:
https://docs.microsoft.com/en-us/azure/dns/private-dns-overviewoverview

QUESTION 21
You have an Azure subscription named Subscription1 that contains the storage accounts shown in the following table:

Name	Account kind	Azure service that contains data
storage1	Storage	File
storage2	StorageV2 (general purpose v2)	File, Table
storage3	StorageV2 (general purpose v2)	Queue
storage4	BlobStorage	Blob

You plan to use the Azure Import/Export service to export data from Subscription1.
You need to identify which storage account can be used to export the data.

What should you identify?

A. storage1
B. storage2
C. storage3
D. storage4

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Azure Import/Export service supports the following of storage accounts:

* Standard General Purpose v2 storage accounts (recommended for most scenarios)
* Blob Storage accounts
* General Purpose v1 storage accounts (both Classic or Azure Resource Manager deployments), Azure Import/ Export service supports the following storage types:
* Import supports Azure Blob storage and Azure File storage
* Export supports Azure Blob storage

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-requirements

QUESTION 22
You have an Active Directory domain named contoso.com that contains the objects shown in the following table.

Name	Type	In organizational unit (OU)
User1	User	OU1
User2	User	OU1
User3	User	OU1
Group1	Security Group – Global	OU1
User4	User	OU2
Group2	Security Group – Global	OU2

The groups have the memberships shown in the following table.

Group	Member
Group1	User1
Group2	User2, Group1

OU1 and OU2 are synced to Azure Active Directory (Azure AD).
You modify the synchronization settings and remove OU1 from synchronization.
You sync Active Directory and Azure AD.

Which objects are in Azure AD?

A. User4 and Group2 only
B. User2, Group1, User4, and Group2 only
C. User1, User2, Group1, User4, and Group2 only
D. User1, User2, User3, User4, Group1, and Group2

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 23
HOTSPOT

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

Name	Operating system	Connects to
VM1	Windows Server 2019	Subnet1
VM2	Windows Server 2019	Subnet2

VM1 and VM2 use public IP addresses.
From Windows Server 2019 on VM1 and VM2, you allow inbound Remote Desktop connections.
Subnet1 and Subnet2 are in a virtual network named VNET1.
The subscription contains two network security groups (NSGs) named NSG1 and NSG2. NSG1 uses only the default rules.

NSG2 uses the default and the following custom incoming rule:

* Priority: 100
* Name: Rule1
* Port: 3389
* Protocol: TCP
* Source: Any
* Destination: Any
* Action: Allow

NSG1 connects to Subnet1. NSG2 connects to the network interface of VM2.

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
From the internet, you can connect to VM1 by using Remote Desktop.	○	○
From the internet, you can connect to VM2 by using Remote Desktop.	○	○
From VM1, you can connect to VM2 by using Remote Desktop.	○	○

Correct Answer:

Statements	Yes	No
From the internet, you can connect to VM1 by using Remote Desktop.	○	●
From the internet, you can connect to VM2 by using Remote Desktop.	●	○
From VM1, you can connect to VM2 by using Remote Desktop.	●	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: No
The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.

Box 2: Yes
NSG2 will allow this.

Box 3: Yes
NSG2 will allow this.

Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/troubleshoot-rdp-connection

QUESTION 24

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	East US	*Not applicable*
RG2	Resource group	West Europe	*Not applicable*
RG3	Resource group	North Europe	*Not applicable*
VNET1	Virtual network	Central US	RG1
VM1	Virtual machine	West US	RG2

VM1 connects to a virtual network named VNET2 by using a network interface named NIC1.
You need to create a new network interface named NIC2 for VM1.

Solution:
You create NIC2 in RG2 and Central US.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The virtual machine you attach a network interface to and the virtual network you connect it to must exist in the same location, here West US, also referred to as a region.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

QUESTION 25
You have an Azure Active Directory (Azure AD) tenant named contoso.com.
Multi-factor authentication (MFA) is enabled for all users.

You need to provide users with the ability to bypass MFA for 10 days on devices to which they have successfully signed in by using MFA.

What should you do?

A. From the multi-factor authentication page, configure the users' settings.
B. From Azure AD, create a conditional access policy.
C. From the multi-factor authentication page, configure the service settings.
D. From the MFA blade in Azure AD, configure the MFA Server settings.

Correct Answer: C
Section: Single Select

Explanation

Explanation/Reference:
Explanation:

Enable remember Multi-Factor Authentication

* Sign in to the Azure portal.
* On the left, select Azure Active Directory > Users.
* Select Multi-Factor Authentication.
* Under Multi-Factor Authentication, select service settings.
* On the Service Settings page, manage remember multi-factor authentication, select the Allow users to remember multi-factor authentication on devices they trust option.
* Set the number of days to allow trusted devices to bypass two-step verification. The default is 14 days.
* Select Save.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings

QUESTION 26
HOTSPOT

You have an Azure subscription named Sub1.

You plan to deploy a multi-tiered application that will contain the tiers shown in the following table.

Tier	Accessible from the Internet	Number of virtual machines
Front-end web server	Yes	10
Business logic	No	100
Microsoft SQL Server database	No	5

You need to recommend a networking solution to meet the following requirements:

* Ensure that communication between the web servers and the business logic tier spreads equally across the virtual machines.
* Protect the web servers from SQL injection attacks.

Which Azure resource should you recommend for each requirement?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Ensure that communication between the web servers and the business logic tier spreads equally across the virtual machines:

an application gateway that us
an application gateway that us
an internal load balancer
a network security group (NSG
a public load balancer

Protect the web servers from SQL injection attacks:

an application gateway that us
an application gateway that us
an internal load balancer
a network security group (NSG
a public load balancer

Correct Answer:

Ensure that communication between the web servers and the business logic tier spreads equally across the virtual machines:

an application gateway that us
an application gateway that us
an internal load balancer
a network security group (NSG
a public load balancer

Protect the web servers from SQL injection attacks:

an application gateway that us
an application gateway that us
an internal load balancer
a network security group (NSG
a public load balancer

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: an internal load balancer
Azure Internal Load Balancer (ILB) provides network load balancing between virtual machines that reside inside a cloud service or a virtual network with a regional scope.

Box 2: an application gateway that uses the WAF tier

Azure Web Application Firewall (WAF) on Azure Application Gateway provides centralized protection of your web applications from common exploits and vulnerabilities. Web applications are increasingly targeted by malicious attacks that exploit commonly known vulnerabilities.

Reference:
https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview

QUESTION 27
You plan to deploy several Azure virtual machines that will run Windows Server 2019 in a virtual machine scale set by using an Azure Resource Manager template.

You need to ensure that NGINX is available on all the virtual machines after they are deployed.

What should you use?

A. Azure Active Directory (Azure AD) Application Proxy
B. Azure Custom Script Extension
C. Azure Application Insights
D. the New-AzConfigurationAssignement cmdlet

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Create a VM with NGINX

This script creates an Azure Virtual Machine and uses the Azure Virtual Machine Custom Script Extension to install NGINX.

```
#!/bin/bash

# Create a resource group.
az group create --name myResourceGroup --location westeurope

# Create a new virtual machine, this creates SSH keys if not present.
az vm create --resource-group myResourceGroup --name myVM --image UbuntuLTS --generate-ssh-keys

# Open port 80 to allow web traffic to host.
az vm open-port --port 80 --resource-group myResourceGroup --name myVM

# Use CustomScript extension to install NGINX.
az vm extension set \
  --publisher Microsoft.Azure.Extensions \
  --version 2.0 \
  --name CustomScript \
  --vm-name myVM \
  --resource-group myResourceGroup \
  --settings '{"commandToExecute":"apt-get -y update && apt-get -y install nginx"}'
```

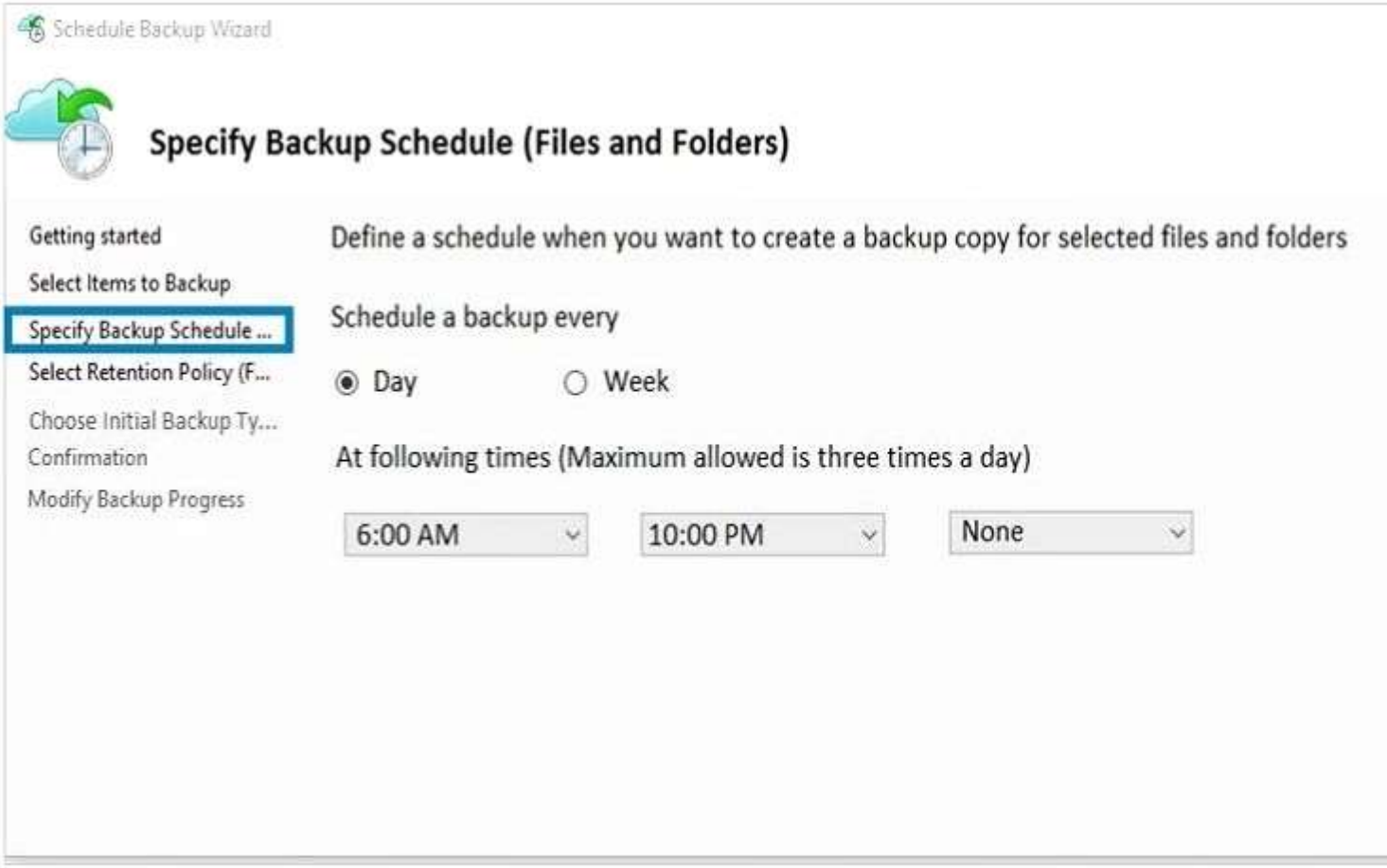
Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/scripts/virtual-machines-linux-cli-sample-create-vm-nginx

QUESTION 28
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Resource group	Location
Vault1	Recovery services vault	RG1	East US
VM1	Virtual machine	RG1	East US
VM2	Virtual machine	RG1	West US

All virtual machines run Windows Server 2016.

On VM1, you back up a folder named Folder1 as shown in the following exhibit.



You plan to restore the backup to a different virtual machine.

You need to restore the backup to VM2.

What should you do first?

A. From VM2, install the Microsoft Azure Recovery Services Agent
B. From VM1, install the Windows Server Backup feature
C. From VM2, install the Windows Server Backup feature
D. From VM1, install the Microsoft Azure Recovery Services Agent

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:

Explanation:

Restore files to Windows Server using the MARS Agent

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-restore-windows-server

QUESTION 29
DRAG & DROP

You have an Azure subscription that contains an Azure file share.
You have an on-premises server named Server1 that runs Windows Server 2016.
You plan to set up Azure File Sync between Server1 and the Azure file share.
You need to prepare the subscription for the planned Azure File Sync.

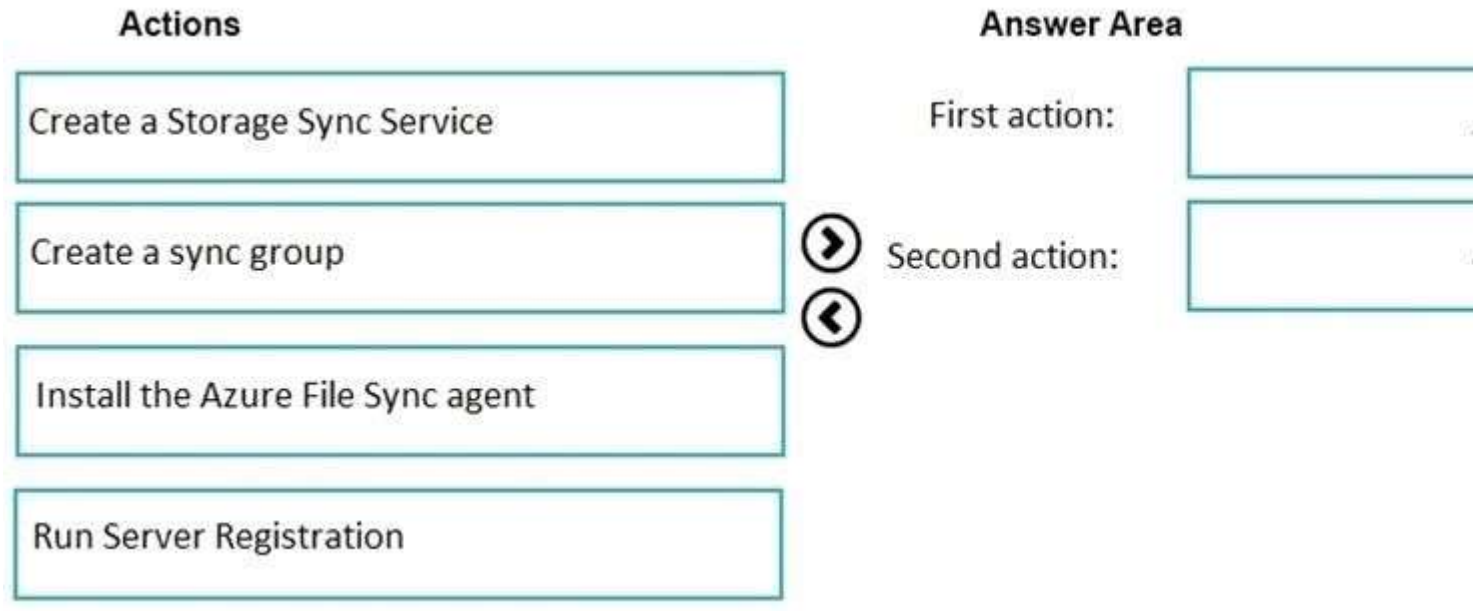
Which two actions should you perform in the Azure subscription?

To answer, drag the appropriate actions to the correct targets.
Each action 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.

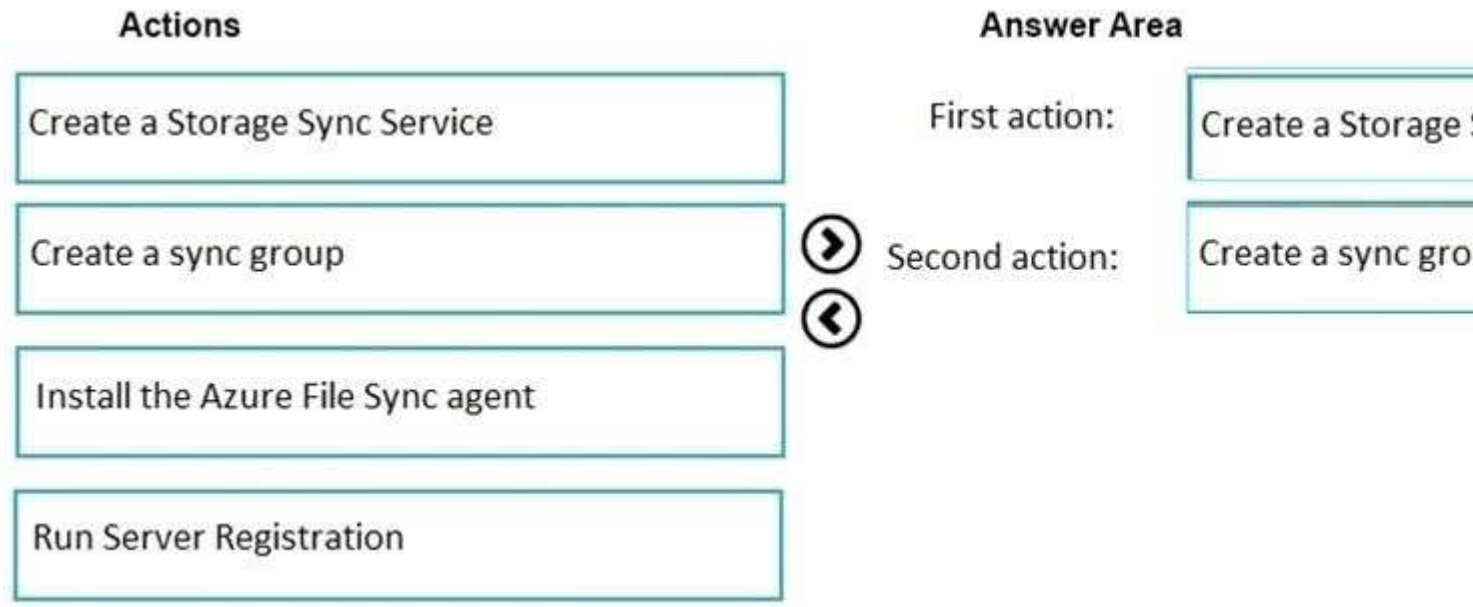
NOTE: Each correct selection is worth one point.

Select and Place:

Select and Place:



Correct Answer:



Section: Drag & Drop
Explanation

Explanation/Reference:
Explanation:

First action: Create a Storage Sync Service
The deployment of Azure File Sync starts with placing a **Storage Sync Service** resource into a resource group of your selected subscription.

Second action: Create a sync group

These are the only actions you perform in the Azure Subscription.
Install Azure File Sync Agent and Server Registration are performed from the server endpoints, which in this case is the on-premise server named Server1

(Step 3: Run Server Registration
Registering your Windows Server with a Storage Sync Service establishes a trust relationship between your server (or cluster) and the Storage Sync Service. A server can only be registered to one Storage Sync Service and can sync with other servers and Azure file shares associated with the same Storage Sync Service.)

Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide?tabs=azure-portal

QUESTION 30
HOTSPOT

You need to create an Azure Storage account that meets the following requirements:

* Minimizes costs
* Supports hot, cool, and archive blob tiers
* Provides fault tolerance if a disaster affects the Azure region where the account resides How should you complete the command?

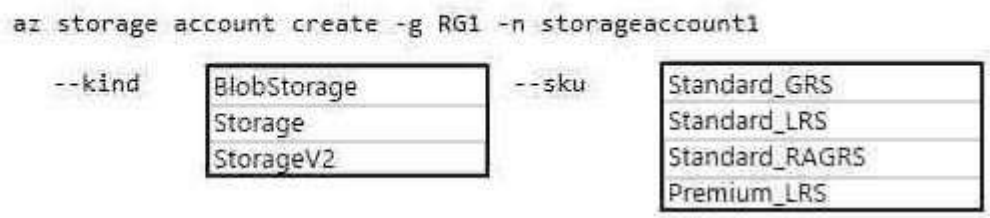
To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point

Hot Area

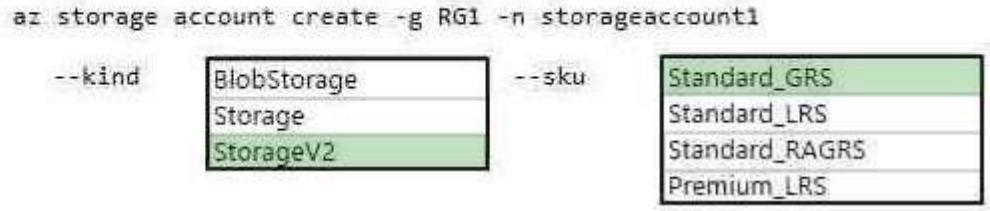
Hot Area:

Answer Area



Correct Answer:

Answer Area



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: StorageV2
You may only tier your object storage data to hot, cool, or archive in Blob storage and General Purpose v2 (GPv2) accounts. General Purpose v1 (GPv1) accounts do not support tiering. General-purpose v2 accounts deliver the lowest per-gigabyte capacity prices for Azure Storage, as well as industry-competitive transaction prices.

Box 2: Standard_GRS
Geo-redundant storage (GRS): Cross-regional replication to protect against region-wide unavailability.

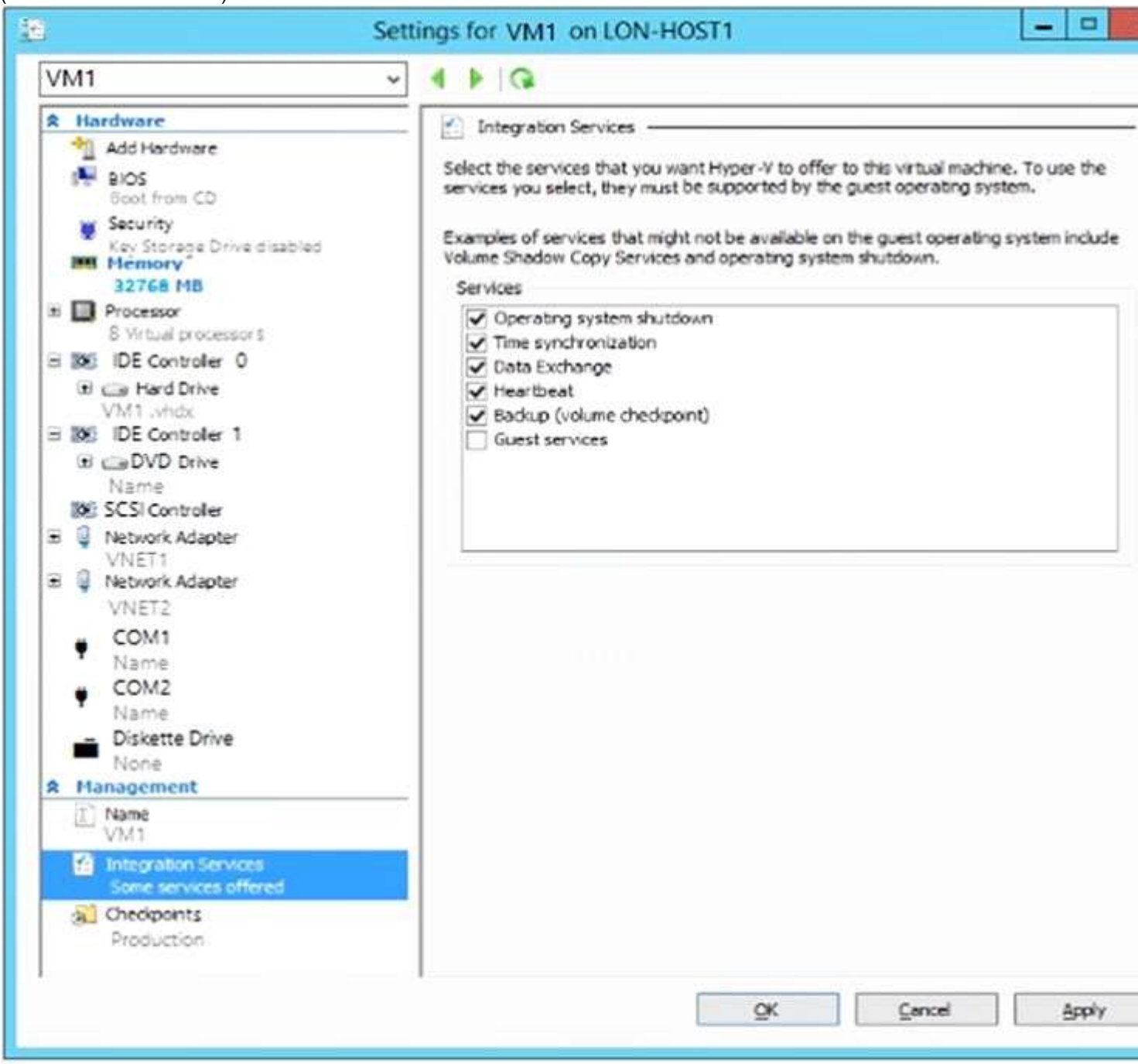
Incorrect Answers:

Locally-redundant storage (LRS): A simple, low-cost replication strategy. Data is replicated within a single storage scale unit.
Read-access geo-redundant storage (RA-GRS): Cross-regional replication with read access to the replica. RA-GRS provides read-only access to the data in the secondary location, in addition to geo- replication across two regions, but is more expensive compared to GRS.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grs
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

QUESTION 31
You have an Azure subscription.
You have an on-premises virtual machine named VM1.
The settings for VM1 are shown in the exhibit.

(Click the Exhibit button.)



You need to ensure that you can use the disks attached to VM1 as a template for Azure virtual machines.

What should you modify on VM1?

A. Integration Services
B. The network adapters
C. The memory
D. The hard drive
E. The processor

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

From the exhibit we see that the disk is in the VHDX format. Before you upload a Windows virtual machines (VM) from on-premises to Microsoft Azure, you must prepare the virtual hard disk (VHD or VHDX). Azure supports only generation 1 VMs that are in the VHD file format and have a fixed sized disk.

The maximum size allowed for the VHD is 1,023 GB. You can convert a generation 1 VM from the VHDX file system to VHD and from a dynamically expanding disk to fixed-sized.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image?toc=%2fazure%2fvirtual-machines%2fwindows%2ftoc.json

QUESTION 32
HOTSPOT

You have an Azure Storage account named storage1 that uses Azure Blob storage and Azure File storage. You need to use AzCopy to copy data to the blob storage and file storage in storage1.

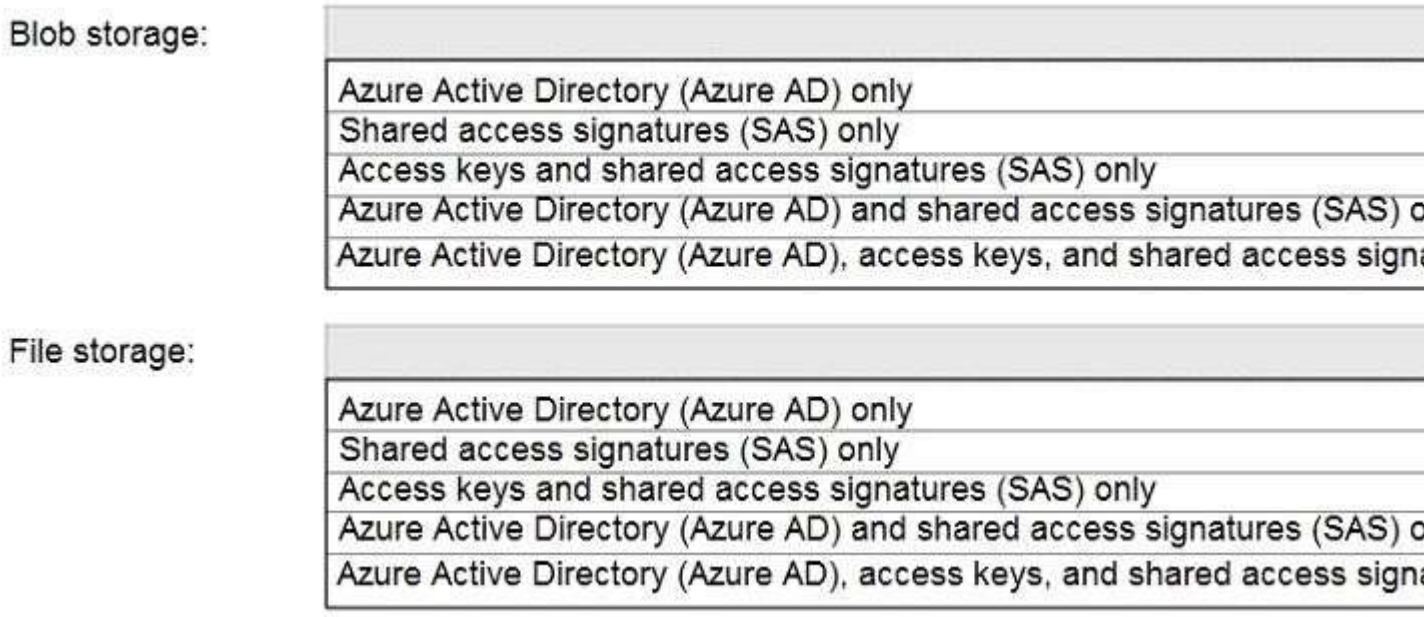
Which authentication method should you use for each type of storage?

To answer, select the appropriate options in the answer area.

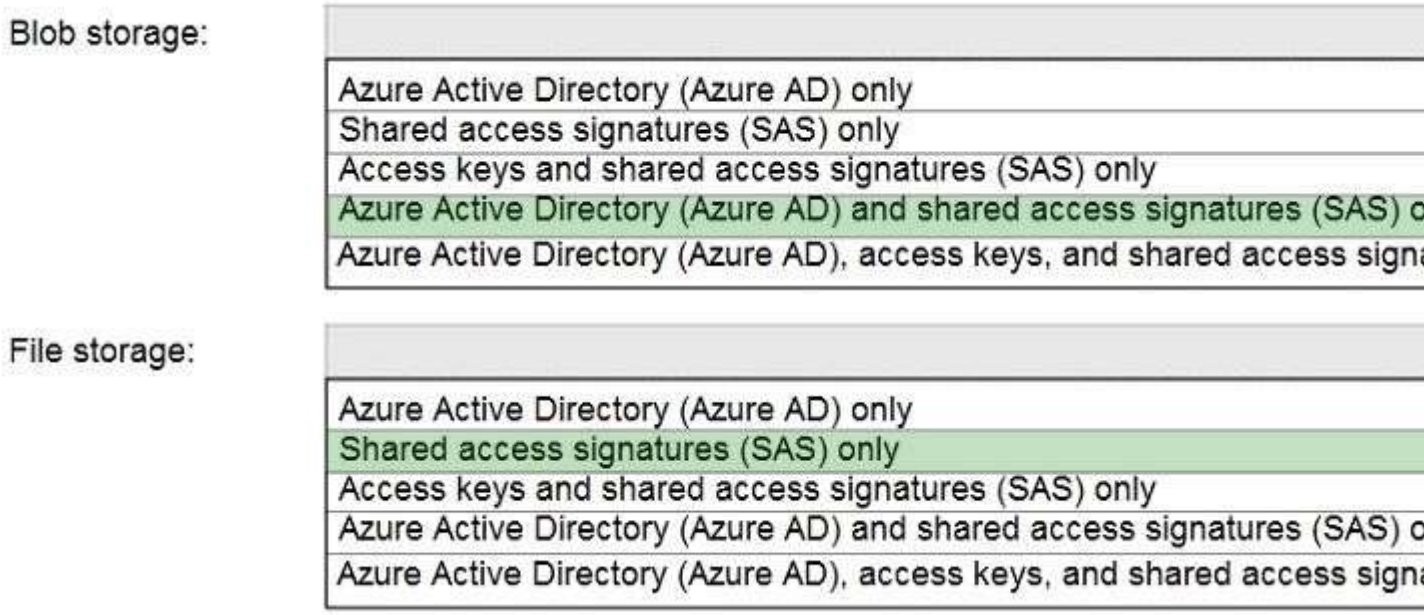
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

You can provide authorization credentials by using Azure Active Directory (AD), or by using a Shared Access Signature (SAS) token.

Box 1:
Both Azure Active Directory (AD) and Shared Access Signature (SAS) token are supported for Blob storage.

Box 2:
Only Shared Access Signature (SAS) token is supported for File storage.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10

QUESTION 33
Which blade should you instruct the finance department auditors to use?

Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

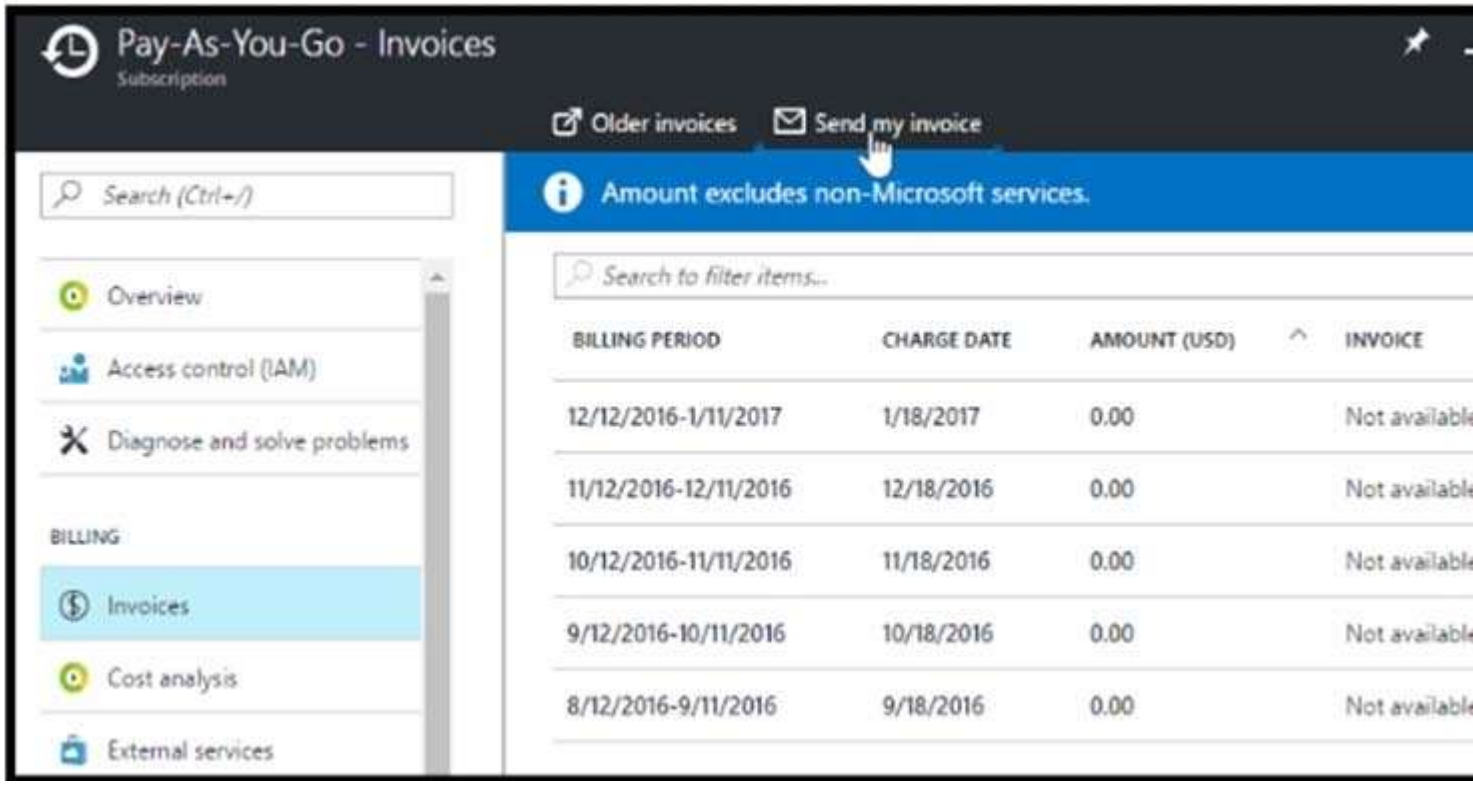
A. Invoices
B. Partner Information
C. Cost Analysis
D. External Services

Correct Answer: A
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

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



2. 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

QUESTION 34
HOTSPOT

You have an Azure subscription named Subcription1 that contains a resource group named RG1.
In RG1 you create an internal load balancer named LB1 and a public load balancer named LB2.
You need to ensure that an administrator named Admin1 can manage LB1 and LB2.

The solution must follow the principle of least privilege.

Which role should you assign to Admin1 for each task?

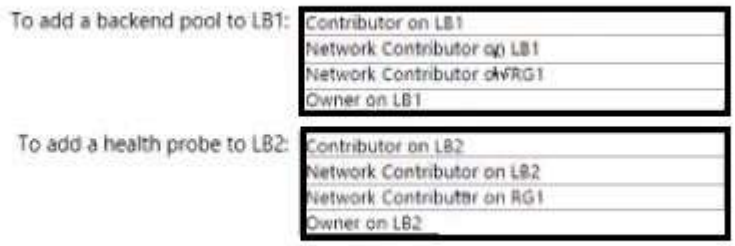
To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

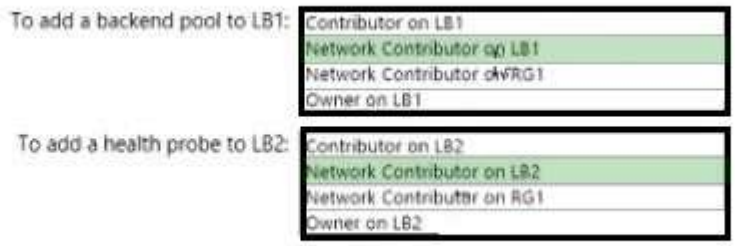
Hot Area:

Answer Area



Correct Answer:

Answer Area



Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

Reference:

QUESTION 35
You have an Azure Storage account named storage1.
You plan to use AzCopy to copy data to storage1.
You need to identify the storage services in storage1 to which you can copy the data.

What should you identify?

A. blob, file, table, and queue
B. blob and file only
C. file and table only
D. file only
E. blob, table, and queue only

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

AzCopy is a command-line utility that you can use to copy blobs or files to or from a storage account.

Incorrect Answers:

A, C, E: AzCopy does not support table and queue storage services.
D: AzCopy supports file storage services, as well as blob storage services.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10

Exam B

QUESTION 1
You need to meet the technical requirement for VM4.

What should you create and configure?

Case Study Title (Case Study):
Topic 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.

All the resources used by Litware are hosted on-premises. 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.

Existing Environment

The network contains an Active Directory forest named Litware.com. All domain controllers are configured as DNS servers and host the Litware.com DNS zone.
Litware has finance, human resources, sales, research, and information technology departments.
Each department has an organizational unit (OU) that contains all the accounts of that respective department.
All the user accounts have the department attribute set to their respective department.
New users are added frequently.
Litware.com contains a user named User1.
All the offices connect by using private links.
Litware has data centers in the Montreal and Seattle offices.
Each data center has a firewall that can be configured as a VPN device.
All infrastructure servers are virtualized.

The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

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
VM4	Virtual machine

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.

A. an Azure Notification Hub
B. an Azure Event Hub
C. an Azure Logic App
D. an Azure services Bus

Correct Answer: B
Section: Topic 1 - Litware Inc.
Explanation

Explanation/Reference:
Explanation:

Scenario:
Create 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

QUESTION 2
You need to prepare the environment to meet the authentication requirements.

Which two actions should you perform?

Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Allow inbound TCP port 8080 to the domain controllers in the Miami office.
B. Add http://autogon.microsoftazuread-sso.com to the intranet zone of each client computer in the Miami office.
C. Join the client computers in the Miami office to Azure AD.

D. Install the Active Directory Federation Services (AD FS) role on a domain controller in the Miami office.
E. Install Azure AD Connect on a server in the Miami office and enable Pass-through Authentication.

Correct Answer: BE
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

B: You can gradually roll out Seamless SSO to your users. You start by adding the following Azure AD URL to all or selected users' Intranet zone settings by using Group Policy in Active Directory:
E: Seamless SSO works with any method of cloud authentication - Password Hash Synchronization or Pass-through Authentication, and can be enabled via Azure AD Connect.

Reference:
https://autologon.microsoftazuread-sso.com
https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sso-quick-start

QUESTION 3
You have an Azure web app named webapp1.

Users report that they often experience HTTP 500 errors when they connect to webapp1.
You need to provide the developers of webapp1 with real-time access to the connection errors.
The solution must provide all the connection error details.

What should you do first?

A. From webapp1, enable Web server logging
B. From Azure Monitor, create a workbook
C. From Azure Monitor, create a Service Health alert
D. From webapp1, turn on Application Logging

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 4
HOTSPOT

You have Azure subscription that includes following Azure file shares:

Name	In storage account	Location
share1	storage1	West US
share2	storage1	West US

You have the following on-premises servers:

Name	Folders
Server1	D:\Folder1, E:\Folder2
Server2	D:\Data

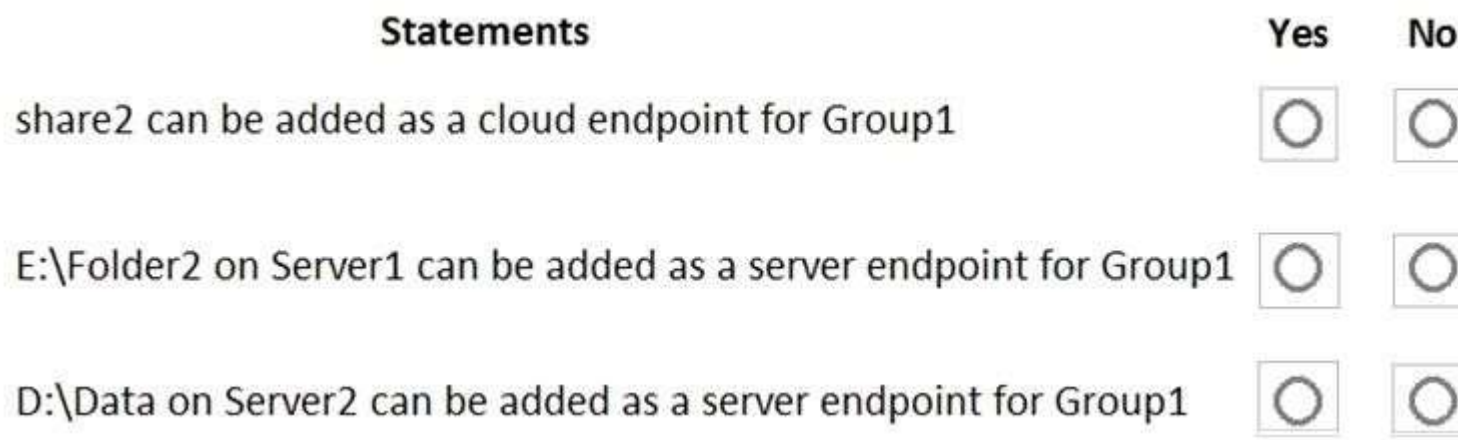
You create a Storage Sync Service named Sync1 and an Azure File Sync group named Group1.
Group1 uses share1 as a cloud endpoint.
You register Server1 and Server2 in Sync1.
You add D:\Folder1 on Server1 as a server endpoint of Group1.

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

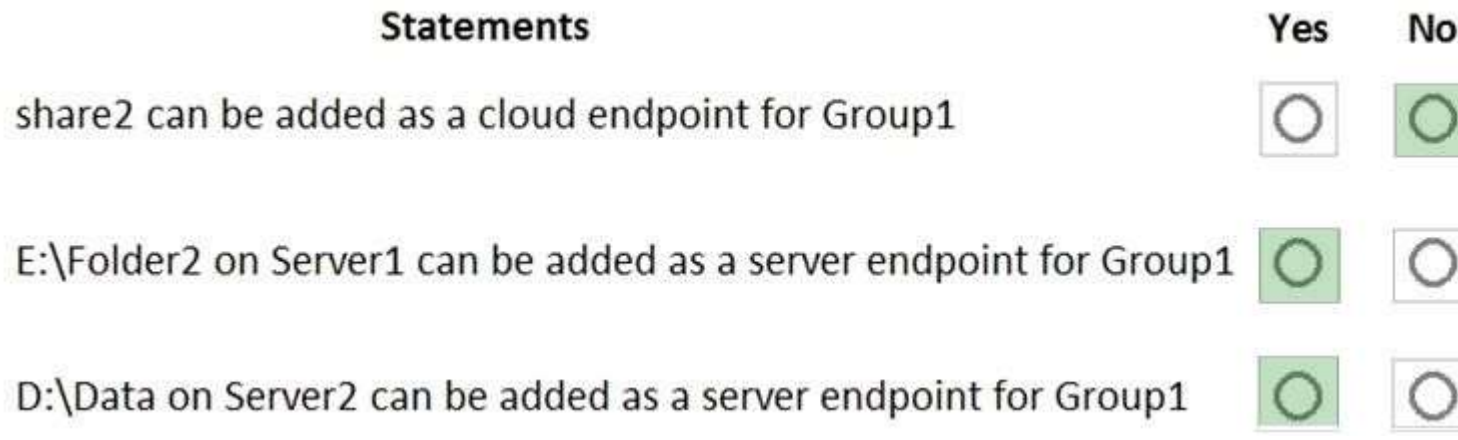
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: No
Group1 already has a cloud endpoint named Share1.
A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints.

Box 2: Yes
Yes, one or more server endpoints can be added to the sync group.

Box 3: Yes
Yes, one or more server endpoints can be added to the sync group.

Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

QUESTION 5
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure virtual machine named VM1 that runs Windows Server 2016. You need to create an alert in Azure when more than two error events are logged to the System log on VM1 within an hour.

Solution:
You create an Azure Log Analytics workspace and configure the data settings.
You install the Microsoft Monitoring Agent on VM1.
You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Alerts in Azure Monitor can identify important information in your Log Analytics repository. They are created by alert rules that automatically run log searches at regular intervals, and if results of the log search match particular criteria, then an alert record is created and it can be configured to perform an automated response. The Log Analytics agent collects monitoring data from the guest operating system and workloads of virtual machines in Azure, other cloud providers, and on-premises. It collects data into a Log Analytics workspace.

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/learn/tutorial-response https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 6
You have an Azure web app named App1. App1 has the deployment slots shown in the following table:

Name	Function
webapp1-prod	Production
webapp1-test	Staging

In webapp1-test, you test several changes to App1.
You back up App1.
You swap webapp1-test for webapp1-prod and discover that App1 is experiencing performance issues.
You need to revert to the previous version of App1 as quickly as possible.

What should you do?

A. Redeploy App1
B. Swap the slots
C. Clone App1
D. Restore the backup of App1

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

When you swap deployment slots, Azure swaps the Virtual IP addresses of the source and destination slots, thereby swapping the URLs of the slots.
We can easily revert the deployment by swapping back.

Reference:
https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots

QUESTION 7
HOTSPOT

You have an Azure subscription that contains a virtual network named VNet1. VNet1 uses an IP address space of 10.0.0.0/16 and contains the subnets in the following table.

Name	IP address range
Subnet0	10.0.0.0/24
Subnet1	10.0.1.0/24
Subnet2	10.0.2.0/24
GatewaySubnet	10.0.254.0/24

Subnet1 contains a virtual appliance named VM1 that operates as a router.
You create a routing table named RT1.
You need to route all inbound traffic to VNet1 through VM1.
How should you configure RT1?

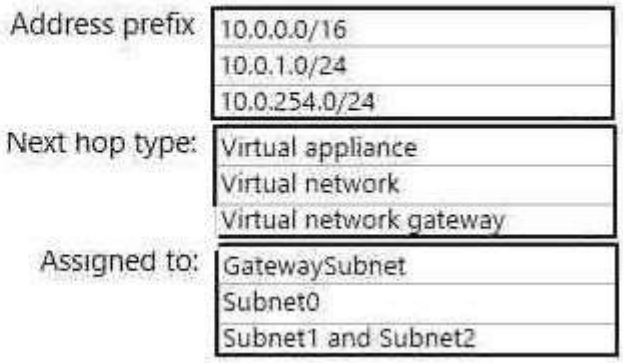
To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

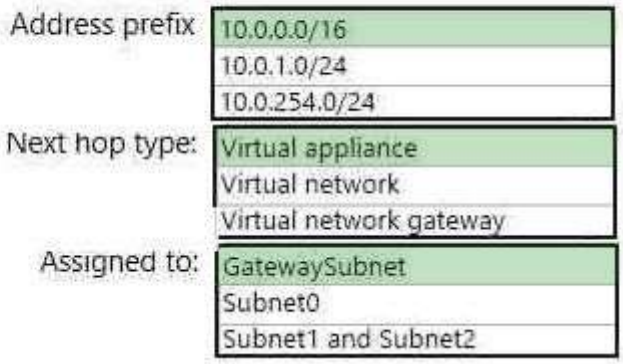
Hot Area:

Answer Area



Correct Answer:

Answer Area



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 8
You are planning the move of App1 to Azure.
You create a network security group (NSG).
You need to recommend a solution to provide users with access to App1.

What should you recommend?

Case Study Title (Case Study):
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers

* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

A. Create an outgoing security rule for port 443 from the Internet. Associate the NSG to all the subnets.
B. Create an incoming security rule for port 443 from the Internet. Associate the NSG to all the subnets.
C. Create an incoming security rule for port 443 from the Internet. Associate the NSG to the subnet that contains the web servers.
D. Create an outgoing security rule for port 443 from the Internet. Associate the NSG to the subnet that contains the web servers.

Correct Answer: C
Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

As App1 is public-facing we need an incoming security rule, related to the access of the web servers. Scenario: You have a public-facing application named App1.
App1 is comprised of the following three tiers: a SQL database, a web front end, and a processing middle tier.
Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Reference:

QUESTION 9
You have a Microsoft 365 tenant and an Azure Active Directory (Azure AD) tenant named contoso.com.
You plan to grant three users named User1, User2, and User3 access to a temporary Microsoft SharePoint document library named Library1.
You need to create groups for the users. The solution must ensure that the groups are deleted automatically after 180 days.

Which two groups should you create? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. a Security group that uses the Assigned membership type
B. an Office 365 group that uses the Assigned membership type
C. an Office 365 group that uses the Dynamic User membership type
D. a Security group that uses the Dynamic User membership type
E. a Security group that uses the Dynamic Device membership type

Correct Answer: BC
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

You can set expiration policy only for Office 365 groups in Azure Active Directory (Azure AD). Note: With the increase in usage of Office 365 Groups, administrators and users need a way to clean up unused groups. Expiration policies can help remove inactive groups from the system and make things cleaner. When a group expires, all of its associated services (the mailbox, Planner, SharePoint site, etc.) are also deleted.
You can set up a rule for dynamic membership on security groups or Office 365 groups.

Incorrect Answers:

A, D, E: You can set expiration policy only for Office 365 groups in Azure Active Directory (Azure AD).

Reference:
https://docs.microsoft.com/en-us/office365/admin/create-groups/office-365-groups-expiration- policy?view=o365-worldwide

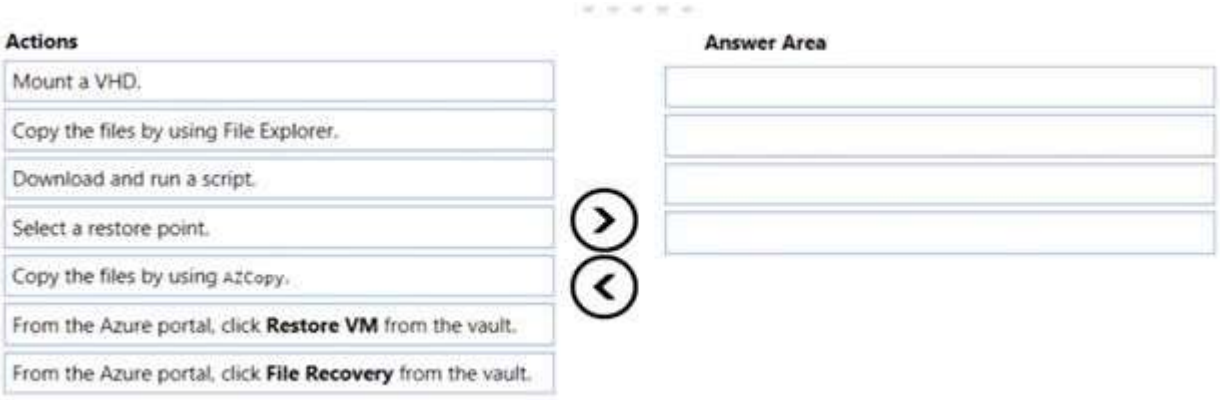
QUESTION 10
DRAG & DROP

You have an Azure Linux virtual machine that is protected by Azure Backup.
One week ago, two files were deleted from the virtual machine.
You need to restore the deleted files to an on-premises computer as quickly as possible.

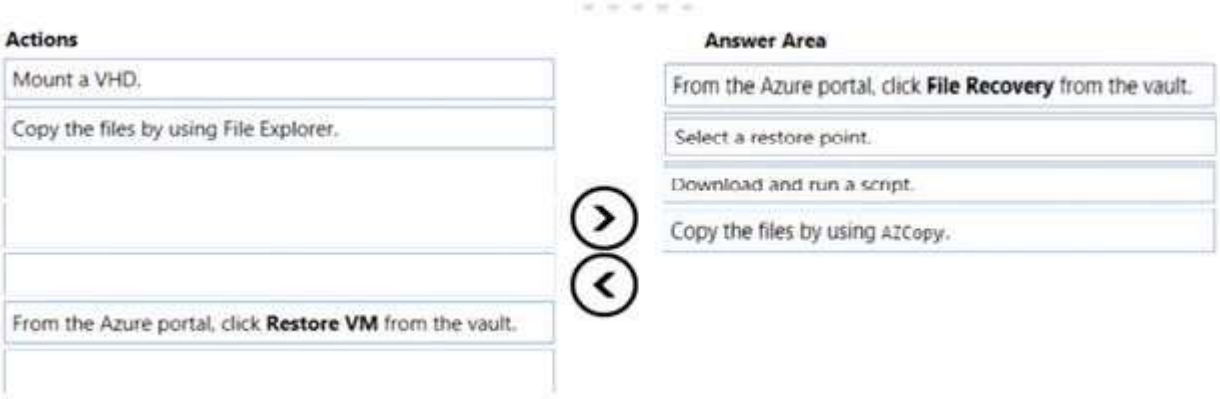
Which four actions should you perform in sequence?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Section: Drag & Drop
Explanation

Explanation/Reference:
Explanation:

To restore files or folders from the recovery point, go to the virtual machine and choose the desired recovery point.

Step 0. In the virtual machine's menu, click Backup to open the Backup dashboard.

Step 1. In the Backup dashboard menu, click File Recovery.

Step 2. From the Select recovery point drop-down menu, select the recovery point that holds the files you want. By default, the latest recovery point is already selected.

Step 3: To download the software used to copy files from the recovery point, click Download Executable (for Windows Azure VM) or Download Script (for Linux Azure VM, a python script is generated).

Step 4: Copy the files by using AzCopy

AzCopy is a command-line utility designed for copying data to/from Microsoft Azure Blob, File, and Table storage, using simple commands designed for optimal performance. You can copy data between a file system and a storage account, or between storage accounts.

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-restore-files-from-vm
https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy

QUESTION 11
HOTSPOT

You have an Azure subscription named Subscription1.
Subscription1 contains two Azure virtual machines named VM1 and VM2. VM1 and VM2 run Windows Server 2016.
VM1 is backed up daily by Azure Backup without using the Azure Backup agent.
VM1 is affected by ransomware that encrypts data.
You need to restore the latest backup of VM1.
To which location can you restore the backup?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

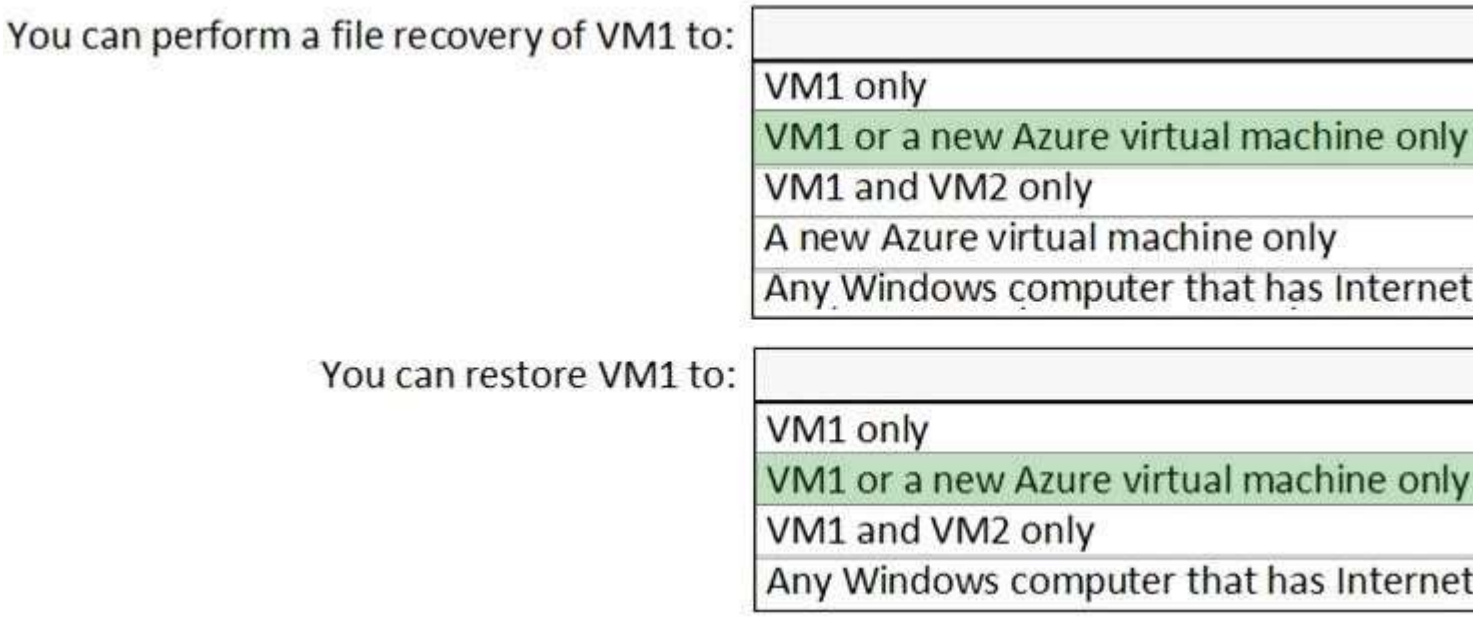
Hot Area

Hot Area:

You can perform a file recovery of VM1 to:	
	VM1 only
	VM1 or a new Azure virtual machine only
	VM1 and VM2 only
	A new Azure virtual machine only
	Any Windows computer that has Internet

You can restore VM1 to:	
	VM1 only
	VM1 or a new Azure virtual machine only
	VM1 and VM2 only
	Any Windows computer that has Internet

Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Note: The new VM must be in the same region.

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-arm-restore-vms

QUESTION 12
You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named adatum.com.

The tenant contains 500 user accounts.
You deploy Microsoft Office 365.
You configure Office 365 to use the user accounts in adatum.com. You configure 60 users to connect to mailboxes in Microsoft Exchange Online.
You need to ensure that the 60 users use Azure Multi-Factor Authentication (MFA) to connect to the Exchange Online mailboxes.

The solution must only affect connections to the Exchange Online mailboxes.

What should you do?

A. From the multi-factor authentication page, configure the Multi-Factor Auth status for each user.
B. From Azure Active Directory admin center, create a conditional access policy.
C. From the multi-factor authentication page, modify the verification options.
D. From the Azure Active Directory admin center, configure an authentication method

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:

Explanation:

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

QUESTION 13
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.
Another administrator plans to create several network security groups (NSGs) in the subscription. You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution:
You assign a built-in policy definition to the subscription.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Resource policy definition used by Azure Policy enables you to establish conventions for resources in your organization by describing when the policy is enforced and what effect to take.
However, there are no built-in policy definitions. Though there are sample policy defintions.

Reference:
https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

QUESTION 14
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Location
VNET1	Virtual network	East US
IP1	Public IP address	West Europe
RT1	Route table	North Europe

You need to create a network interface named NIC1.

In which location can you create NIC1?

A. East US and North Europe only.
B. East US and West Europe only.
C. East US, West Europe, and North Europe.
D. East US only.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

A virtual network is required when you create a NIC. Select the virtual network for the network interface.
You can only assign a network interface to a virtual network that exists in the same subscription and location as the network interface.
Once a network interface is created, you cannot change the virtual network it is assigned to.
The virtual machine you add the network interface to must also exist in the same location and subscription as the network interface.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

QUESTION 15
HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains the virtual machines in the following table.

Name	IP address
VM1	10.0.1.4
VM2	10.0.2.4
VM3	10.0.3.4

Subscription1 contains a virtual network named VNet1 that has the subnets in the following table.

Name	Address space	Connected virtual machine
Subnet1	10.0.1.0/24	VM1
Subnet2	10.0.2.0/24	VM2
Subnet3	10.0.3.0/24	VM3

VM3 has a network adapter named NIC3. IP forwarding is enabled on NIC3. Routing is enabled on VM3.

You create a route table named RT1. RT1 is associated to Subnet1 and Subnet2 and contains the routes in the following table.

Address prefix	Next hop type	Next hop address
10.0.1.0/24	Virtual appliance	10.0.3.4
10.0.2.0/24	Virtual appliance	10.0.3.4

You apply RT1 to Subnet1.

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

NOTE: Each correct selection is worth one point

Hot Area

Hot Area:

Answer Area

Statements	Yes	No
Network traffic from VM3 can reach VM1.	○	○
If VM3 is turned off, network traffic from VM2 can reach VM1.	○	○
Network traffic from VM1 can reach VM2.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
Network traffic from VM3 can reach VM1.	○	○
If VM3 is turned off, network traffic from VM2 can reach VM1.	○	○
Network traffic from VM1 can reach VM2.	○	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Yes
Traffic from VM1 and VM2 can reach VM3 thanks to the routing table, and as IP forwarding is enabled on VM3, traffic from VM3 can reach VM1.

Box 2: No
VM3, which has IP forwarding, must be turned on, in order for traffic from VM2 to reach VM1.

Box 3: Yes
The traffic from VM1 will reach VM3, which thanks to IP forwarding, will send the traffic to VM2.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview

QUESTION 16
You have an Azure subscription named Subscription1.
You have 5 TB of data that you need to transfer to Subscription1.
You plan to use an Azure Import/Export job.

What can you use as the destination of the imported data?

A. Azure Data Lake Store

B. a virtual machine
C. the Azure File Sync Storage Sync Service
D. Azure Blob storage

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter. The maximum size of an Azure Files Resource of a file share is 5 TB.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service

QUESTION 17
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains the following users in an Azure Active Directory tenant named contoso.onmicrosoft.com:

Name	Role	Scope
User1	Global administrator	Azure Active Directory
User2	Global administrator	Azure Active Directory
User3	User administrator	Azure Active Directory
User4	Owner	Azure Subscription

User1 creates a new Azure Active Directory tenant named external.contoso.onmicrosoft.com.
You need to create new user accounts in external.contoso.onmicrosoft.com.

Solution:
You instruct User4 to create the user accounts.

Does that meet the goal?

A. yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Only a global administrator can add users to this tenant.

Reference:

https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/add-users-to-azure-ad

QUESTION 18
HOTSPOT

You have an Azure virtual network named VNet1 that connects to your on-premises network by using a site-to-site VPN.
VMet1 contains one subnet named Subnet1.
Subnet1 is associated to a network security group (NSG) named NSG1.
Subnet1 contains a basic internal load balancer named ILB1.
ILB1 has three Azure virtual machines in the backend pool.

You need to collect data about the IP addresses that connects to ILB1.
You must be able to run interactive queries from the Azure portal against the collected data.

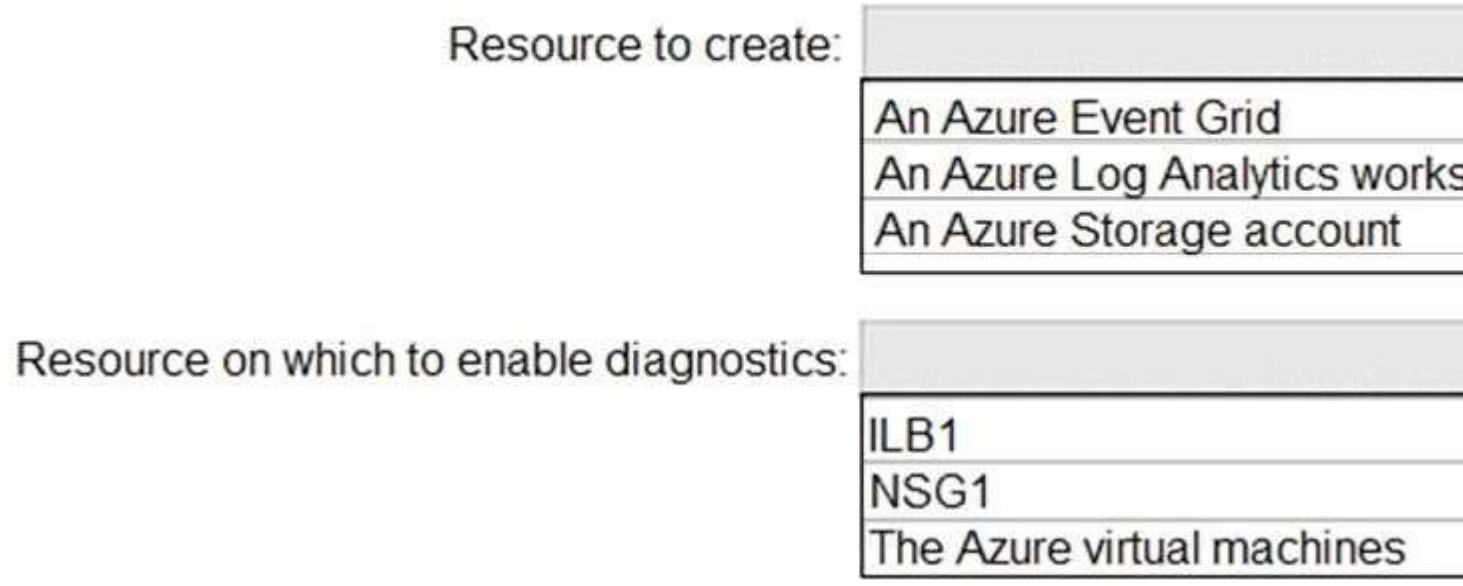
What should you do?

To answer, select the appropriate options in the answer area.

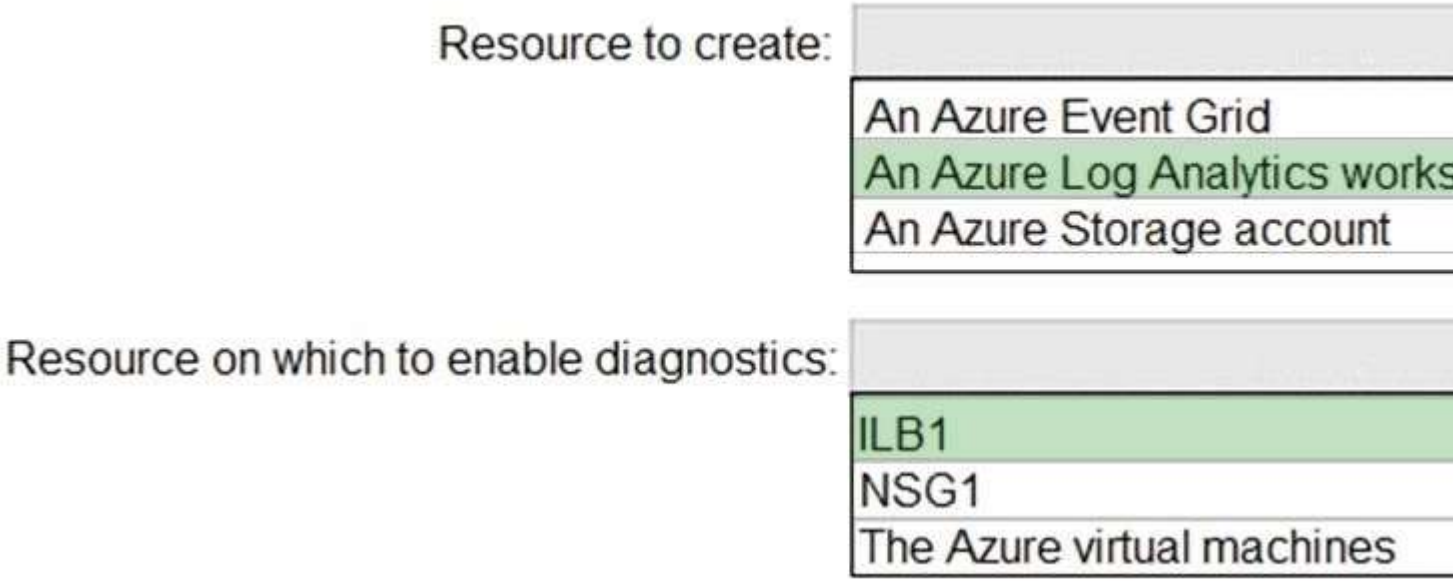
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: An Azure Log Analytics workspace
In the Azure portal you can set up a Log Analytics workspace, which is a unique Log Analytics environment with its own data repository, data sources, and solutions

Box 2: ILB1

Reference:
https://docs.microsoft.com/en-us/azure/log-analytics/log-analytics-quick-create-workspace
https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-diagnostics

QUESTION 19
Your network contains an on-premises Active Directory domain named adatum.com.

The domain contains an organizational unit (OU) named OU1. OU1 contains the objects shown in the following table.

Name	Type	Member of
User1	User	Group1
Group1	Global security group	None
Group2	Universal distribution group	None
Computer1	Computer	Group1

You sync OU1 to Azure Active Directory (Azure AD) by using Azure AD Connect.
You need to identify which objects are synced to Azure AD.

Which objects should you identify?

A. User1 and Group1 only

B. User1, Group1, and Group2 only
C. User1, Group1, Group2, and Computer1
D. Computer1 only

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/active-directory-domain-services/synchronization

QUESTION 20
You have an Azure subscription that contains a web app named webapp1.
You need to add a custom domain named www.contoso.com to webapp1.

What should you do first?

A. Upload a certificate
B. Add a connection string.
C. Stop webapp1.
D. Create a DNS record.

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 21
HOTSPOT

You have an Azure subscription that contains the public load balancers shown in the following table.

Name	SKU
LB1	Basic
LB2	Standard

You plan to create six virtual machines and to load balancer requests to the virtual machines.
Each load balancer will load balance three virtual machines.
You need to create the virtual machines for the planned solution.
How should you create the virtual machines?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

The virtual machines that will be load balanced by using LB1 must:	be connected to the same virtual netw be created in the same resource group. be created in the same availability set run the same operating system.
The virtual machines that will be load balanced by using LB2 must:	be connected to the same virtual netw be created in the same resource group. be created in the same availability set run the same operating system.

Correct Answer:

The virtual machines that will be load balanced by using LB1 must:	be connected to the same virtual netw be created in the same resource group. be created in the same availability set run the same operating system.
The virtual machines that will be load balanced by using LB2 must:	be connected to the same virtual netw be created in the same resource group. be created in the same availability set run the same operating system.

Section: Hotspot
Explanation

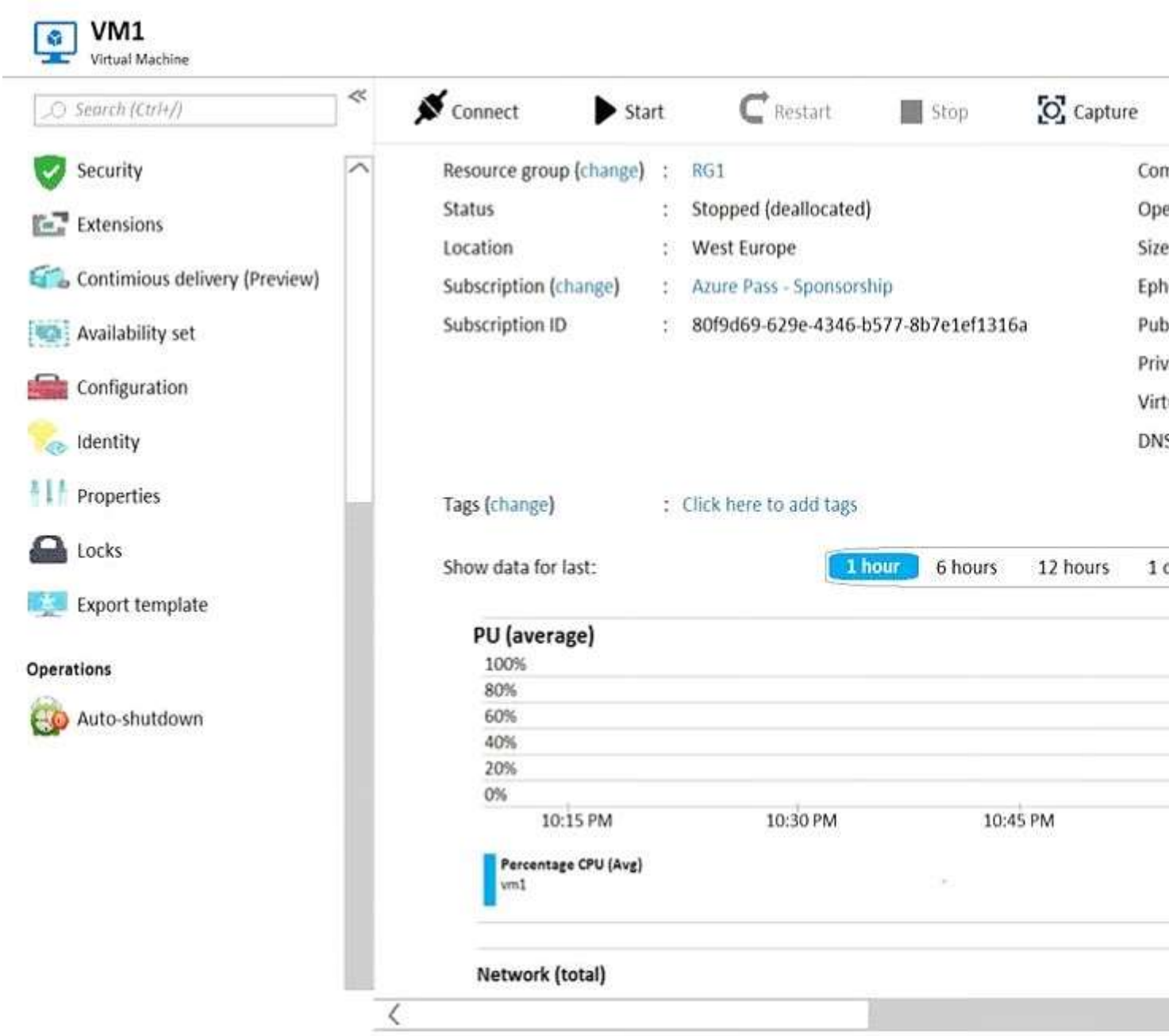
Explanation/Reference:
Explanation:

Box 1: be created in the same availability set or virtual machine scale set. The Basic tier is quite restrictive. A load balancer is restricted to a single availability set, virtual machine scale set, or a single machine.

Box 2: be connected to the same virtual network
The Standard tier can span any virtual machine in a single virtual network, including blends of scale sets, availability sets, and machines.

Reference:
https://www.petri.com/comparing-basic-standard-azure-load-balancers

QUESTION 22
You create an Azure VM named VM1 that runs Windows Server 2019. VM1 is configured as shown in the exhibit. (Click the Exhibit button.)



You need to enable Desired State Configuration for VM1.

What should you do first?

A. Configure a DNS name for VM1.
B. Start VM1.
C. Connect to VM1.
D. Capture a snapshot of VM1.

Correct Answer: B
Section: Single Select
Explanation

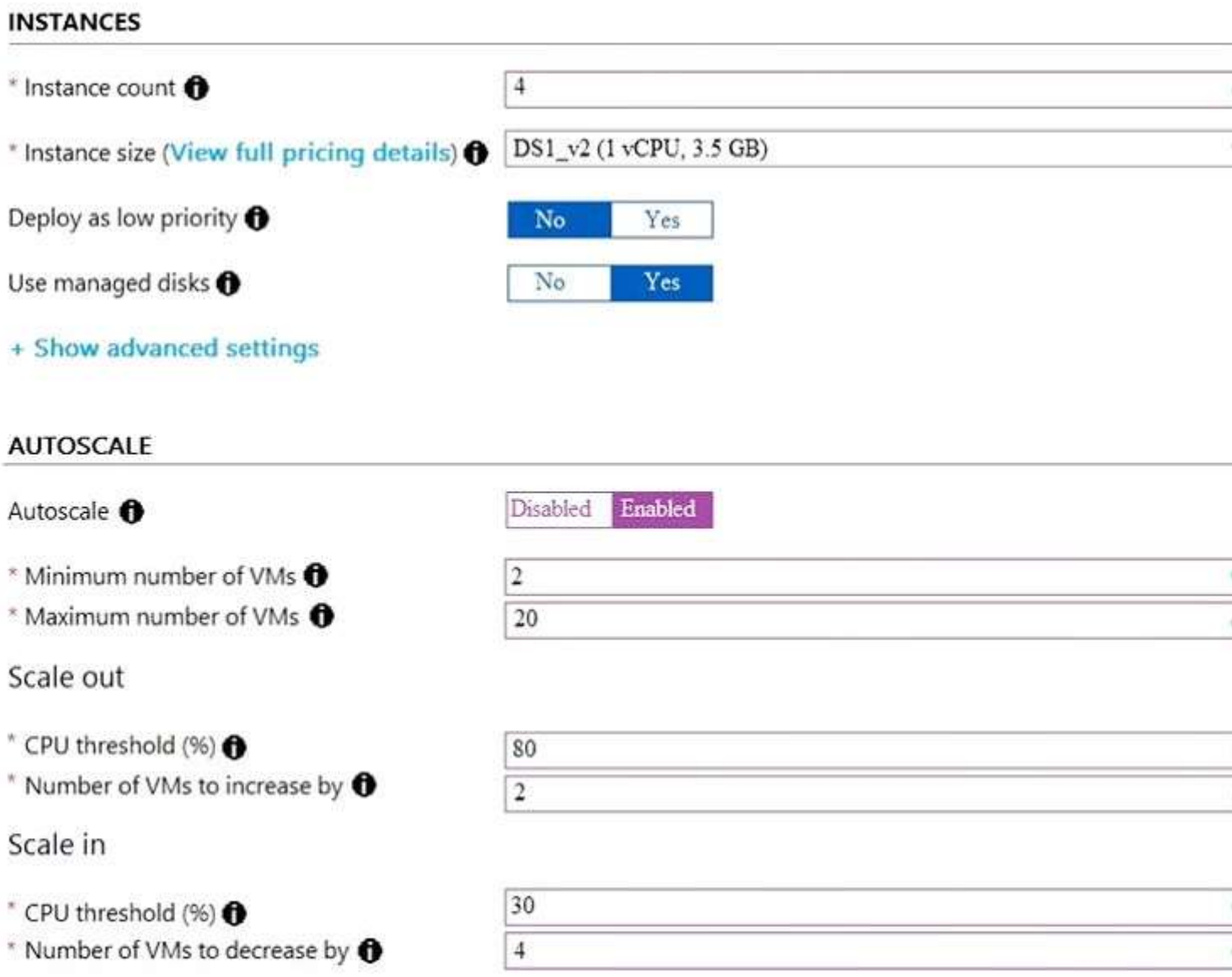
Explanation/Reference:
Explanation:

Status is Stopped (Deallocated).
The DSC extension for Windows requires that the target virtual machine is able to communicate with Azure.
The VM needs to be started.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/dsc-windows

QUESTION 23
HOTSPOT

You create a virtual machine scale set named Scale1. Scale1 is configured as 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.

Hot Area

Hot Area:

If Scale1 is utilized at 85 percent for six minutes, Scale1 will be running [**answer choice**].

2 virtual machines
4 virtual machines
6 virtual machines
10 virtual machine
20 virtual machine

If Scale1 is first utilized at 25 percent for six minutes, and then utilized at 50 percent for six minutes, Scale1 will be running [**answer choice**].

2 virtual machines
4 virtual machines
6 virtual machines
10 virtual machine
20 virtual machine

Correct Answer:

If Scale1 is utilized at 85 percent for six minutes, Scale1 will be running [**answer choice**].

2 virtual machines
4 virtual machines
6 virtual machines
10 virtual machine
20 virtual machine

If Scale1 is first utilized at 25 percent for six minutes, and then utilized at 50 percent for six minutes, Scale1 will be running [**answer choice**].

2 virtual machines
4 virtual machines
6 virtual machines
10 virtual machine
20 virtual machine

Section: Hotspot
Explanation

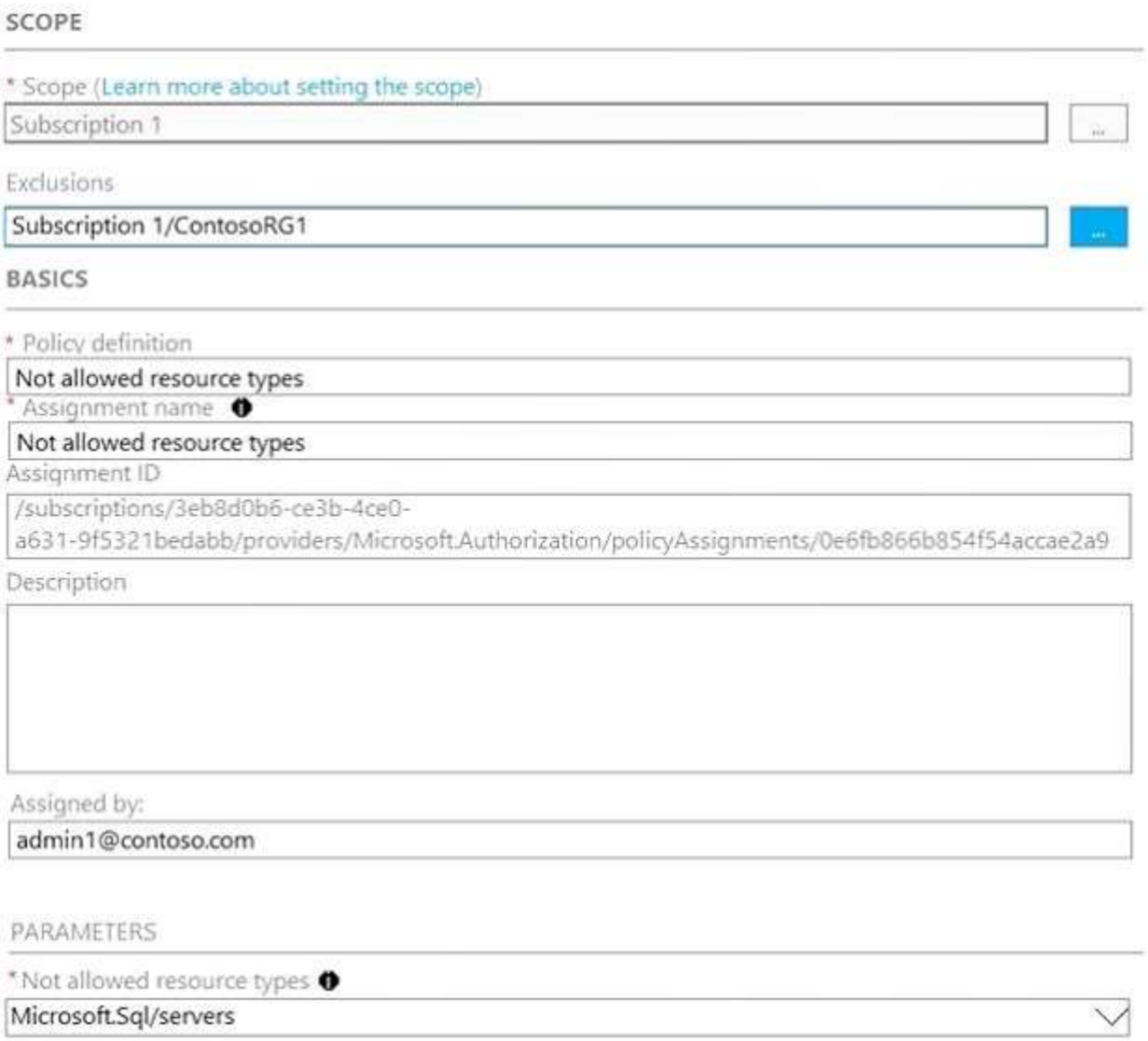
Explanation/Reference:
Explanation:

Box 1:
The Autoscale scale out rule increases the number of VMs by 2 if the CPU threshold is 80% or higher. The initial instance count is 4 and rises to 6 when the 2 extra instances of VMs are added.

Box 2:
The Autoscale scale in rule decreases the number of VMs by 4 if the CPU threshold is 30% or lower. The initial instance count is 4 and thus cannot be reduced to 0 as the minimum instances is set to 2. Instances are only added when the CPU threshold reaches 80%.

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-overview
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-best-practices
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-common-scale-patterns

QUESTION 24
You have an Azure policy as shown in the following exhibit.



What is the effect of the policy?

Which of the following statements are true?

A. You can create Azure SQL servers in ContosoRG1.
B. You are prevented from creating Azure SQL servers anywhere in Subscription 1.
C. You are prevented from creating Azure SQL Servers in ContosoRG1 only.
D. You can create Azure SQL servers in any resource group within Subscription 1.

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

You are prevented from creating Azure SQL servers anywhere in Subscription 1 with the exception of ContosoRG1

Reference:

QUESTION 25
HOTSPOT

You have an Azure subscription that contains a virtual machine scale set.
The scale set contains four instances that have the following configurations:

* Operating system: Windows Server 2016
* Size: Standard_D1_v2

You run the get-azvmss cmdlet as 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.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

When an administrator changes the virtual machine size, the size will be changed on up to **[answer choice]** virtual machines simultaneously.

- 0
- 1
- 2
- 4

When a new build of the Windows Server 2016 image is released, the new build will be deployed to up to **[answer choice]** virtual machines simultaneously.

- 0
- 1
- 2
- 4

Correct Answer:

When an administrator changes the virtual machine size, the size will be changed on up to **[answer choice]** virtual machines simultaneously.

- 0
- 1
- 2
- 4

When a new build of the Windows Server 2016 image is released, the new build will be deployed to up to **[answer choice]** virtual machines simultaneously.

- 0
- 1
- 2
- 4

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

The Get-AzVmssVM cmdlet gets the model view and instance view of a Virtual Machine Scale Set (VMSS) virtual machine.

Box 1: 0
The enableAutomaticUpdates parameter is set to false. To update existing VMs, you must do a manual upgrade of each existing VM.

Box 2: 4
Enabling automatic OS image upgrades on your scale set helps ease update management by safely and automatically upgrading the OS disk for all instances in the scale set.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-upgrade-scale-set
https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-automatic-upgrade

QUESTION 26
You download an Azure Resource Manager template based on an existing virtual machine.

The template will be used to deploy 100 virtual machines.
You need to modify the template to reference an administrative password.
You must prevent the password from being stored in plain text.

What should you create to store the password?

A. Azure Active Directory (AD) Identity Protection and an Azure policy
B. a Recovery Services vault and a backup policy
C. an Azure Key Vault and an access policy
D. an Azure Storage account and an access policy

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

You can use a template that allows you to deploy a simple Windows VM by retrieving the password that is stored in a Key Vault.
Therefore the password is never put in plain text in the template parameter file.

Reference:
https://azure.microsoft.com/en-us/resources/templates/101-vm-secure-password/

QUESTION 27
HOTSPOT

You have an Azure subscription that contains the virtual machines shown in the following table:

Name	Operating system	Conn
VM1	Windows Server 2019	Subnet1
VM2	Windows Server 2019	Subnet2

VM1 and VM2 use public IP addresses. From Windows Server 2019 on VM1 and VM2, you allow inbound Remote Desktop connections.
Subnet1 and Subnet2 are in a virtual network named VNET1.
The subscription contains two network security groups (NSGs) named NSG1 and NSG2.
NSG1 uses only the default rules.
NSG2 uses the default rules and the following custom incoming rule:

* Priority: 100
* Name: Rule1
* Port: 3389
* Protocol: TCP
* Source: Any
* Destination: Any
* Action: Allow

NSG1 is associated to Subnet1. NSG2 is associated to the network interface of VM2.

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes
From the Internet, you can connect to VM1 by using Remote Desktop.	○
From the Internet, you can connect to VM2 by using Remote Desktop.	○
From VM1, you can connect to VM2 by using Remote Desktop	○

Correct Answer:

Statements	Yes
From the Internet, you can connect to VM1 by using Remote Desktop.	○
From the Internet, you can connect to VM2 by using Remote Desktop.	○
From VM1, you can connect to VM2 by using Remote Desktop	○

Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

Reference:

QUESTION 28
You need to prepare the environment to meet the authentication requirements.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the

available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

A. Allow inbound TCP port 8080 to the domain controllers in the Miami office.
B. Add http://autogon.microsoftazuread-sso.com to the intranet zone of each client computer in the Miami office.
C. Join the client computers in the Miami office to Azure AD.
D. Install the Active Directory Federation Services (AD FS) role on a domain controller in the Miami office.
E. Install Azure AD Connect on a server in the Miami office and enable Pass-through Authentication.

Correct Answer: BE
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

B: You can gradually roll out Seamless SSO to your users. You start by adding the following Azure AD URL to all or selected users' Intranet zone settings by using Group Policy in Active Directory: https:// autologon.microsoftazuread-sso.com
E: Seamless SSO works with any method of cloud authentication - Password Hash Synchronization or Pass-through Authentication, and can be enabled via Azure AD Connect.

References:
https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sso-quick-start

QUESTION 29
You need to move the blueprint files to Azure.

What should you do?

Case Study Title (Case Study):
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier
Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

A. Generate a shared access signature (SAS). Map a drive, and then copy the files by using File Explorer.
B. Use the Azure Import/Export service.
C. Generate an access key. Map a drive, and then copy the files by using File Explorer.
D. Use Azure Storage Explorer to copy the files.

Correct Answer: D
Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

Azure Storage Explorer is a free tool from Microsoft that allows you to work with Azure Storage data on Windows, macOS, and Linux. You can use it to upload and download data from Azure blob storage.

Scenario:
Planned Changes include: move the existing product blueprint files to Azure Blob storage. Technical Requirements include: Copy the blueprint files to Azure over the Internet.

Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-data-to-azure-blob-using-azure-storage-explorer

QUESTION 30
HOTSPOT

You have an Azure subscription that contains an Azure Storage account named storage1 and the users shown in the following table.

Name	Member of
User1	Group1
User2	Group2
User3	Group1

You plan to monitor storage1 and to configure email notifications for the signals shown in the following table.

Name	Type	Users to notify
Ingress	Metric	User1 and User3 only
Egress	Metric	User1 only
Delete storage account	Activity log	User1, User2, and User3
Restore blob ranges	Activity log	User1 and User3 only

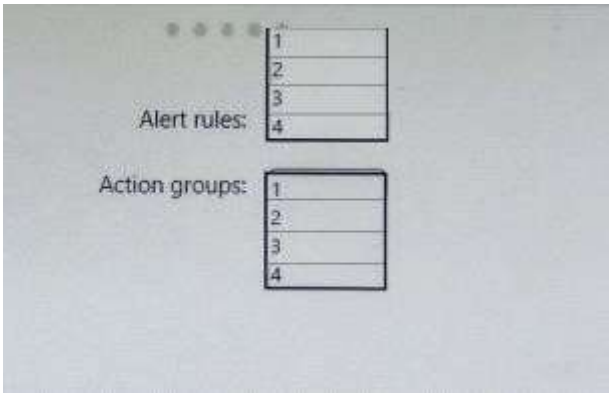
You need to identify the minimum number of alert rules and action groups required for the planned monitoring. How many alert rules and action groups should you identify?

To answer, select the appropriate options in the answer area.

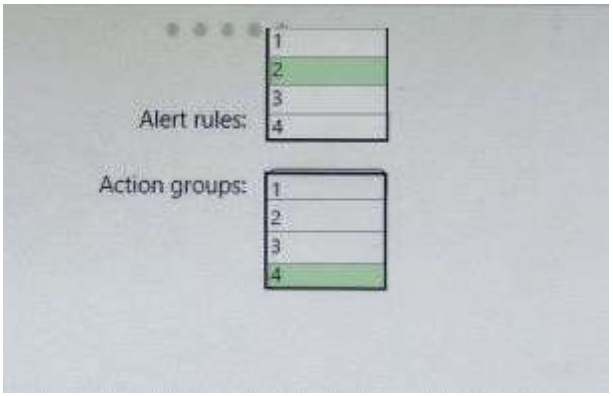
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

Reference:

QUESTION 31
You recently created a new Azure subscription that contains a user named Admin1.

Admin1 attempts to deploy an Azure Marketplace resource by using an Azure Resource Manager template.

Admin1 deploys the template by using Azure PowerShell and receives the following error message: "User failed validation to purchase resources. Error message: "Legal terms have not been accepted for this item on this subscription.
To accept legal terms, please go to the Azure portal (http://go.microsoft.com/fwlink/?LinkId=534873) and configure programmatic deployment for the Marketplace item or create it there for the first time."

You need to ensure that Admin1 can deploy the Marketplace resource successfully.

What should you do?

A. From Azure PowerShell, run the Set-AzApiManagementSubscription cmdlet
B. From the Azure portal, register the Microsoft.Marketplace resource provider
C. From Azure PowerShell, run the Set-AzMarketplaceTerms cmdlet
D. From the Azure portal, assign the Billing administrator role to Admin1

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/powershell/module/az.marketplaceordering/set-azmarketplaceterms?view=azps-4.1.0

QUESTION 32
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

HOTSPOT

Q. You are evaluating the name resolution for the virtual machines after the planned implementation of the Azure networking infrastructure.

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

Hot Area

Hot Area:

Statements	Ye
The virtual machines on Subnet1 will be able to resolve the hosts in the humongousinsurance.local zone.	
The virtual machines on ClientSubnet will be able to register the hostname records in the humongousinsurance.local zone.	
The virtual machines on Subnet4 will be able to register the hostname records in the humongousinsurance.local zone.	

Correct Answer:

Statements	Ye
The virtual machines on Subnet1 will be able to resolve the hosts in the humongousinsurance.local zone.	
The virtual machines on ClientSubnet will be able to register the hostname records in the humongousinsurance.local zone.	
The virtual machines on Subnet4 will be able to register the hostname records in the humongousinsurance.local zone.	

Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:

QUESTION 33
You have an Azure subscription that contains the following resources:

* 100 Azure virtual machines
* 20 Azure SQL databases
* 50 Azure file shares

You need to create a daily backup of all the resources by using Azure Backup.

What is the minimum number of backup policies that you must create?

A. 1
B. 2
C. 3
D. 150
E. 170

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

There is a limit of 100 VMs that can be associated to the same backup policy from portal.
We recommend that for more than 100 VMs, create multiple backup policies with same schedule or different schedule. One policy for VMS, one for SQL databases, and one for the file shares.

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-vm-backup-faq

QUESTION 34
You have an Azure subscription named Subscription1 that contains an Azure Log Analytics workspace named Workspace1.
You need to view the error events from a table named Event.

Which query should you run in Workspace1?

A. Event | where EventType is "error"
B. Event | search "error"
C. select * from Event where EventType == "error"
D. Get-Event Event | where {$_.EventType -eq "error"}

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/get-started-queries

QUESTION 35
HOTSPOT

You have a virtual network named VNET1 that contains the subnets shown in the following table:

Name	Subnet	Network securit
Subnet1	10.10.1.0/24	NSG1
Subnet2	10.10.2.0/24	*None*

You have two Azure virtual machines that have the network configurations shown in the following table:

Name	Subnet	IP address	
VM1	Subnet1	10.10.1.5	N
VM2	Subnet2	10.10.2.5	*N*
VM3	Subnet2	10.10.2.6	*N*

For NSG1, you create the inbound security rule shown in the following table:

Priority	Source	Destination	Destination port
101	10.10.2.0/24	10.10.1.0/24	TCP/1433

For NSG2, you create the inbound security rule shown in the following table:

Priority	Source	Destination	Destination port
125	10.10.2.5	10.10.1.5	TCP/1433

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes
VM2 can connect to the TCP port 1433 services on VM1.	○
VM1 can connect to the TCP port 1433 services on VM2.	○
VM2 can connect to the TCP port 1433 services on VM3.	○

Correct Answer:

Statements	Yes
VM2 can connect to the TCP port 1433 services on VM1.	○
VM1 can connect to the TCP port 1433 services on VM2.	○
VM2 can connect to the TCP port 1433 services on VM3.	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Yes
The inbound security rule for NSG1 allows TCP port 1433 from 10.10.2.0/24 (or Subnet2 where VM2 and VM3 are located) to 10.10.1.0/24 (or Subnet1 where VM1 is located) while the inbound security rule for NSG2 blocks TCP port 1433 from 10.10.2.5 (or VM2) to 10.10.1.5 (or VM1). However, the NSG1 rule has a higher priority (or lower value) than the NSG2 rule.

Box 2: Yes
No rule explicitly blocks communication from VM1. The default rules, which allow communication, are thus applied.

Box 3: Yes
No rule explicitly blocks communication between VM2 and VM3 which are both on Subnet2. The default rules, which allow communication, are thus applied.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/security-overview

Exam C

QUESTION 1
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?

Case Study Title (Case Study):
Topic 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.

All the resources used by Litware are hosted on-premises. 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.

Existing Environment

The network contains an Active Directory forest named Litware.com. All domain controllers are configured as DNS servers and host the Litware.com DNS zone.
Litware has finance, human resources, sales, research, and information technology departments.
Each department has an organizational unit (OU) that contains all the accounts of that respective department.
All the user accounts have the department attribute set to their respective department.
New users are added frequently.
Litware.com contains a user named User1.
All the offices connect by using private links.
Litware has data centers in the Montreal and Seattle offices.
Each data center has a firewall that can be configured as a VPN device.
All infrastructure servers are virtualized.

The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

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
VM4	Virtual machine

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.

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

Correct Answer: D
Section: Topic 1 - Litware Inc.
Explanation

Explanation/Reference:
Explanation:

Scenario:
Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
The recommendation is to use conditional access policies that can then be targeted to groups of users, specific applications, or other conditions.

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

QUESTION 2
You plan to use the Azure Import/Export service to copy files to a storage account.
Which two files should you create before you prepare the drives for the import job?

Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. an XML manifest file
B. a driveset CSV file
C. a dataset CSV file
D. a PowerShell PS1 file
E. a JSON configuration file

Correct Answer: BC
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

B: Modify the driveset.csv file in the root folder where the tool resides.
C: Modify the dataset.csv file in the root folder where the tool resides. Depending on whether you want to import a file or folder or both, add entries in the dataset.csv file.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-to-files

QUESTION 3
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.
Another administrator plans to create several network security groups (NSGs) in the subscription.
You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution:
You create a resource lock, and then you assign the lock to the subscription.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

How can I freeze or lock my production/critical Azure resources from accidental deletion?
There is way to do this with both ASM and ARM resources using Azure resource lock.

Reference:
https://blogs.msdn.microsoft.com/azureedu/2016/04/27/using-azure-resource- manager-policy-and-azure-lock-to-control-your-azure-resources/

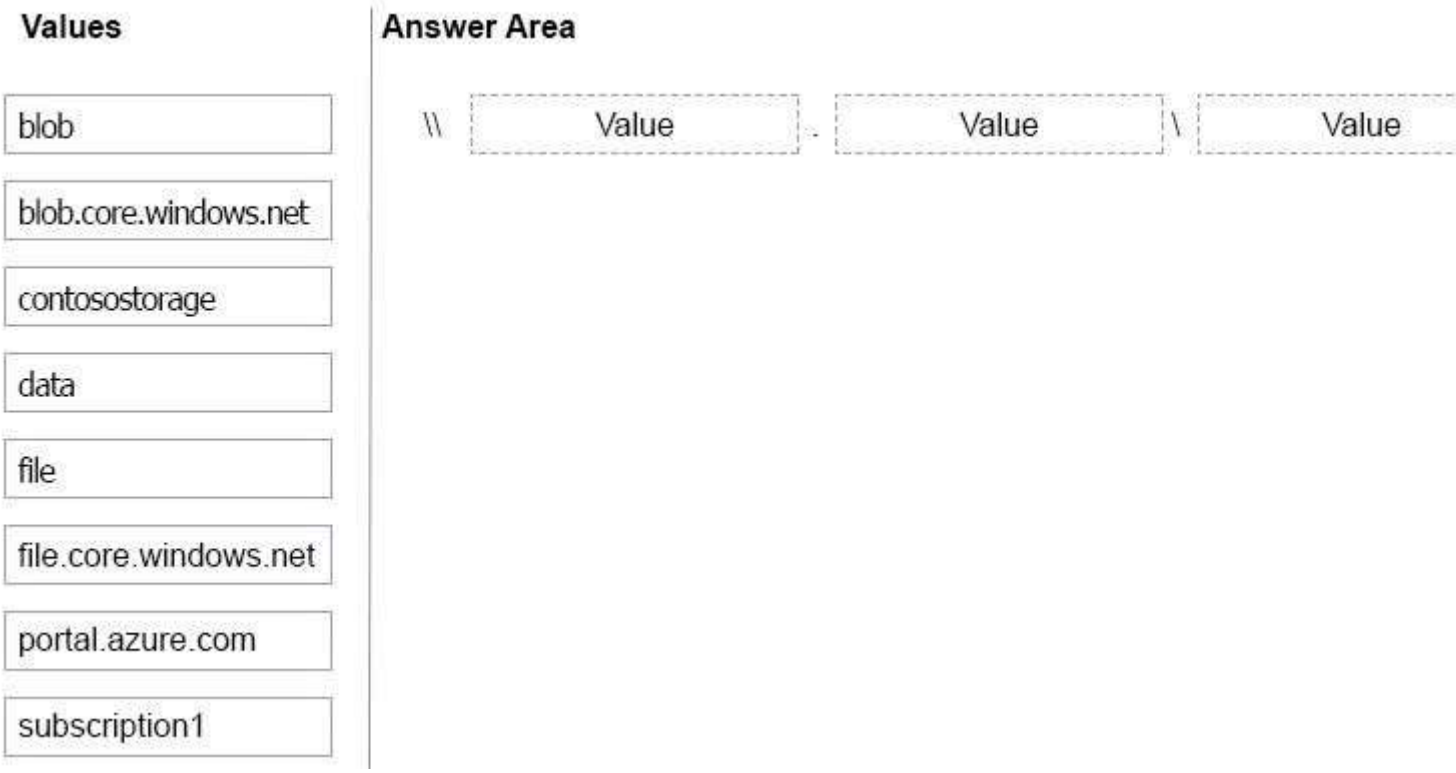
QUESTION 4
DRAG & DROP

You have an Azure subscription named Subscription1.
You create an Azure Storage account named contosostorage, and then you create a file share named data.
Which UNC path should you include in a script that references files from the data file share?

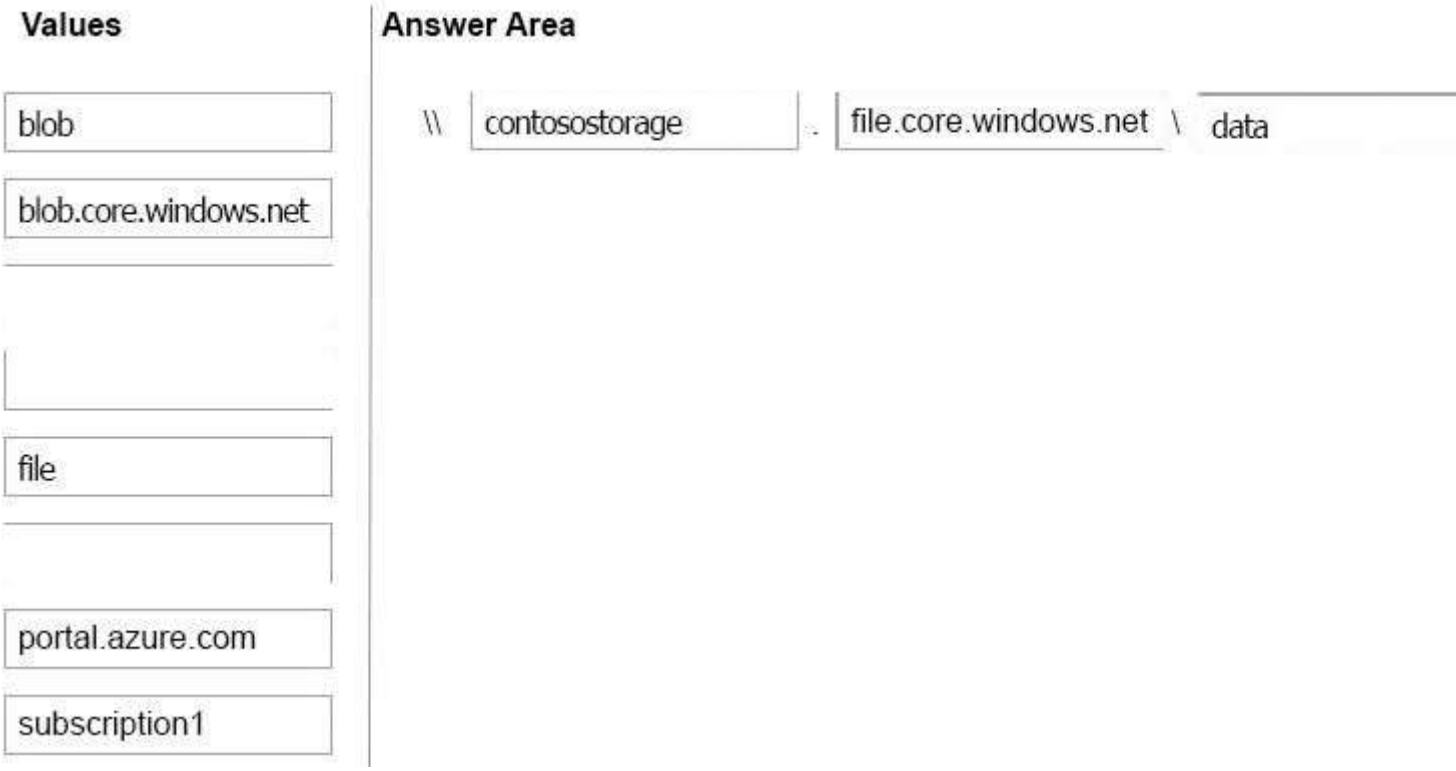
To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Section: Drag & Drop

Explanation

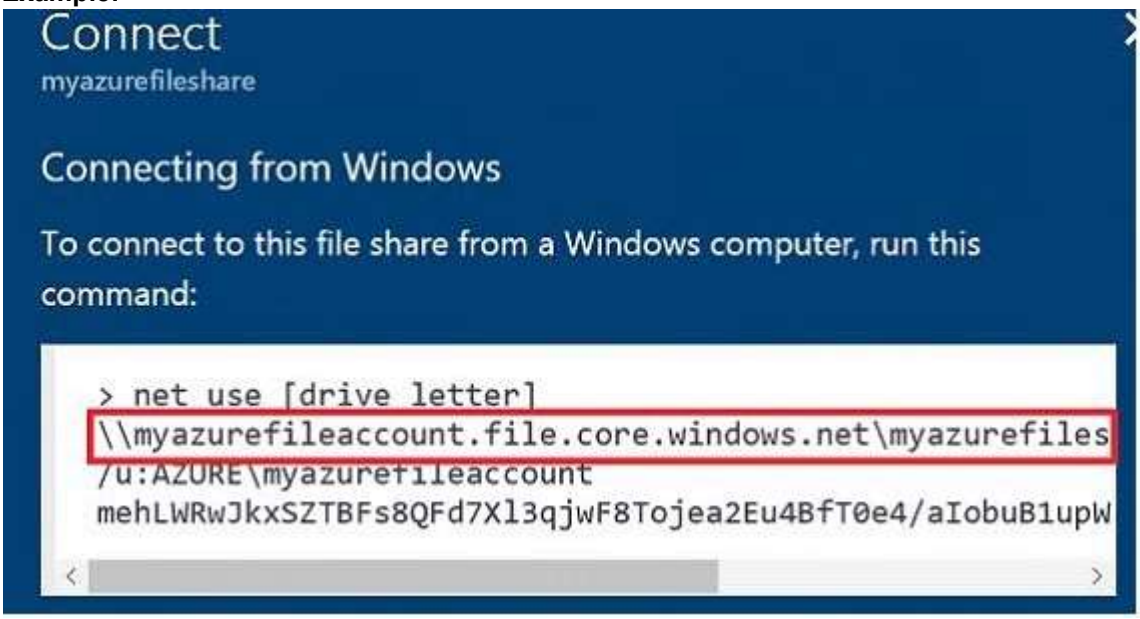
Explanation/Reference:
Explanation:

Box 1: contosostorage
The name of account

Box 2: file.core.windows.net

Box 3: data
The name of the file share is data.

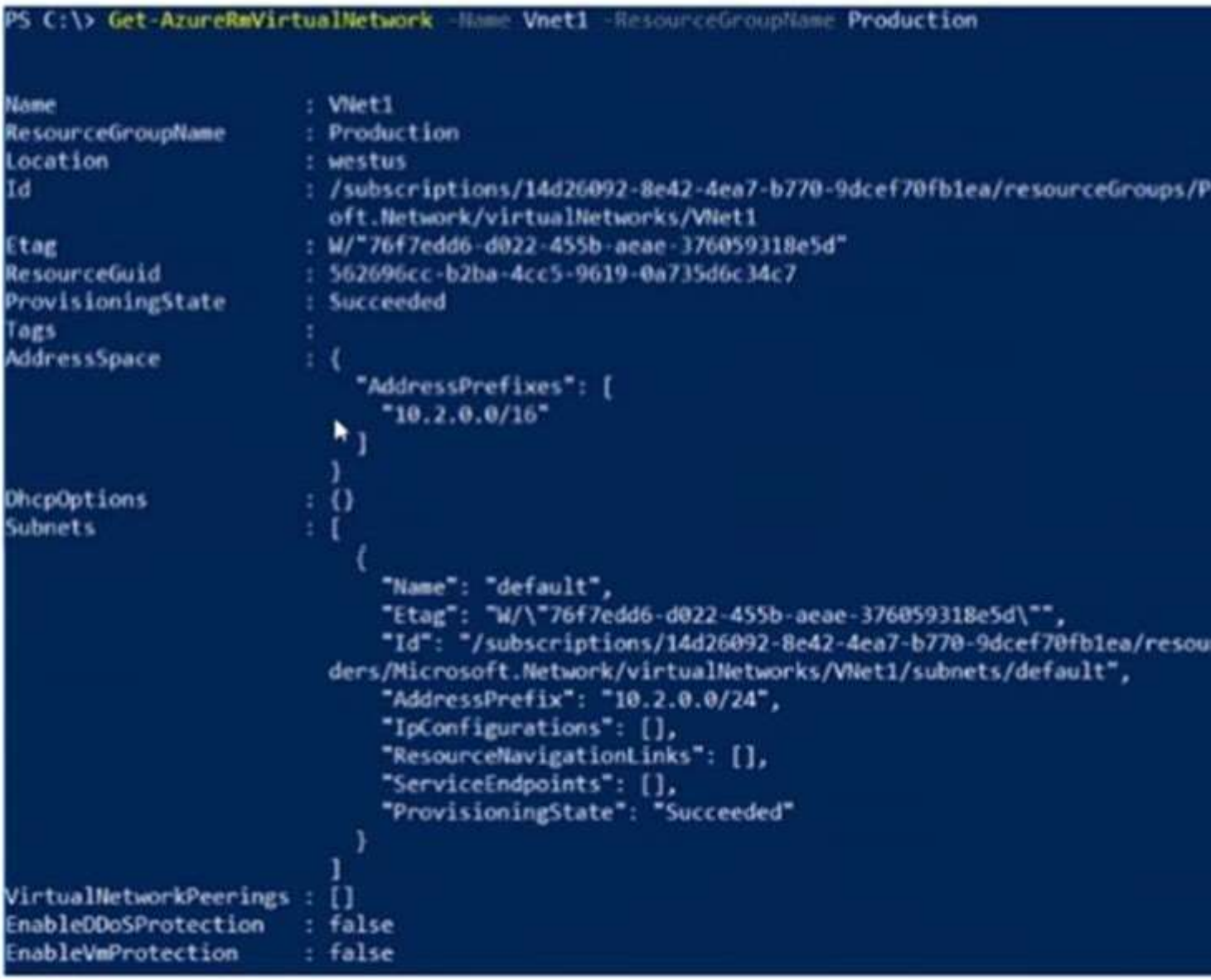
Example:



Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows

QUESTION 5
HOTSPOT

You have a virtual network named VNet1 that has the configuration 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.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Answer Area

Before a virtual machine on VNet1 can receive an IP address from 192.168.1.0/24, you must first **[answer choice]**.

- add a network interface
- add a subnet
- add an address space
- delete a subnet
- delete an address space

Before a virtual machine on VNet1 can receive an IP address from 10.2.1.0/24, you must first **[answer choice]**.

- add a network interface
- add a subnet
- add an address space
- delete a subnet
- delete an address space

Correct Answer:

Answer Area

Before a virtual machine on VNet1 can receive an IP address from 192.168.1.0/24, you must first **[answer choice]**.

- add a network interface
- **add a subnet**
- add an address space
- delete a subnet
- delete an address space

Before a virtual machine on VNet1 can receive an IP address from 10.2.1.0/24, you must first **[answer choice]**.

- **add a network interface**
- add a subnet
- add an address space
- delete a subnet
- delete an address space

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: add a subnet
Your IaaS virtual machines (VMs) and PaaS role instances in a virtual network automatically receive a private IP address from a range that you specify, based on the subnet they are connected to. We need to add the 192.168.1.0/24 subnet.

Box 2: add a network interface
The 10.2.1.0/24 network exists. We need to add a network interface.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-static-private-ip-arm-pportal

QUESTION 6
You have an Azure subscription that has a Recovery Services vault named Vault1.

The subscription contains the virtual machines shown in the following table.

Name	Operating system	Auto-shutdown
VM1	Windows Server 2012 R2	Off
VM2	Windows Server 2016	19:00
VM3	Ubuntu Server 18.04 LTS	Off
VM4	Windows 10	19:00

You plan to schedule backups to occur every night at 23:00.

Which virtual machines can you back up by using Azure Backup?

A. VM1 only
B. VM1 and VM3 only
C. VM1. VM2, VM3 and VM4
D. VM1 and VM2 only

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Azure Backup supports backup of 64-bit Windows server operating system from Windows Server 2008. Azure Backup supports backup of 64-bit Windows 10 operating system. Azure Backup supports backup of 64-bit Ubuntu Server operating system from Ubuntu 12.04. Azure Backup supports backup of VM that are shutdown or offline.

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-support-matrix-iaas
https://docs.microsoft.com/en-us/azure/virtual-machines/linux/endorsed-distros

QUESTION 7
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?

Case Study Title (Case Study):
Topic 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.

All the resources used by Litware are hosted on-premises. 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.

Existing Environment

The network contains an Active Directory forest named Litware.com. All domain controllers are configured as DNS servers and host the Litware.com DNS zone.
Litware has finance, human resources, sales, research, and information technology departments.
Each department has an organizational unit (OU) that contains all the accounts of that respective department.
All the user accounts have the department attribute set to their respective department.
New users are added frequently.
Litware.com contains a user named User1.
All the offices connect by using private links.
Litware has data centers in the Montreal and Seattle offices.
Each data center has a firewall that can be configured as a VPN device.
All infrastructure servers are virtualized.

The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

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
VM4	Virtual machine

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.

A. Diagram in VNet1
B. 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

Correct Answer: E
Section: Topic 1 - Litware Inc.
Explanation

Explanation/Reference:
Explanation:

Scenario:
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

QUESTION 8
You have an Azure web app named webapp1.

Users report that they often experience HTTP 500 errors when they connect to webapp1.
You need to provide the developers of webapp1 with real-time access to the connection errors.

The solution must provide all the connection error details.

What should you do first?

A. From webapp1, enable Web server logging
B. From Azure Monitor, create a Service Health alert
C. From webapp1, turn on Application Logging
D. From Azure Monitor, create a workbook

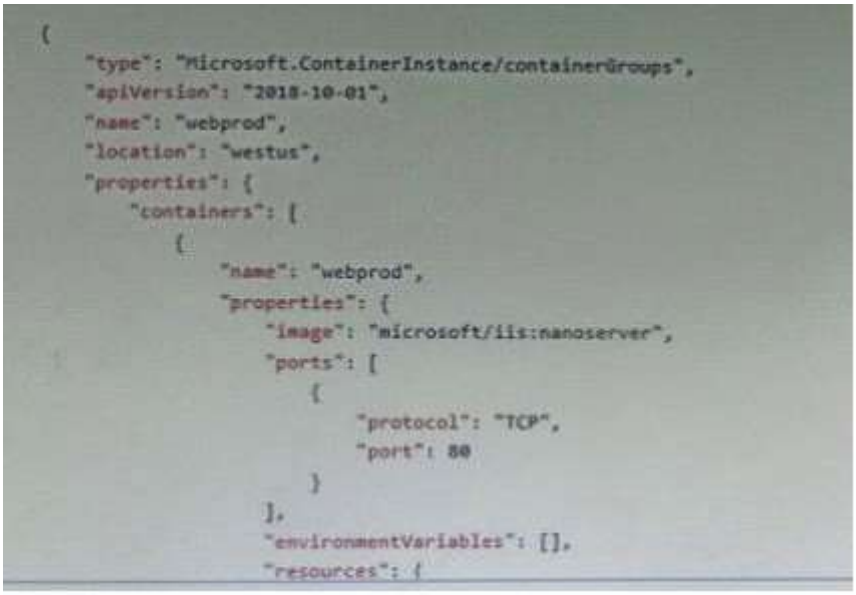
Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

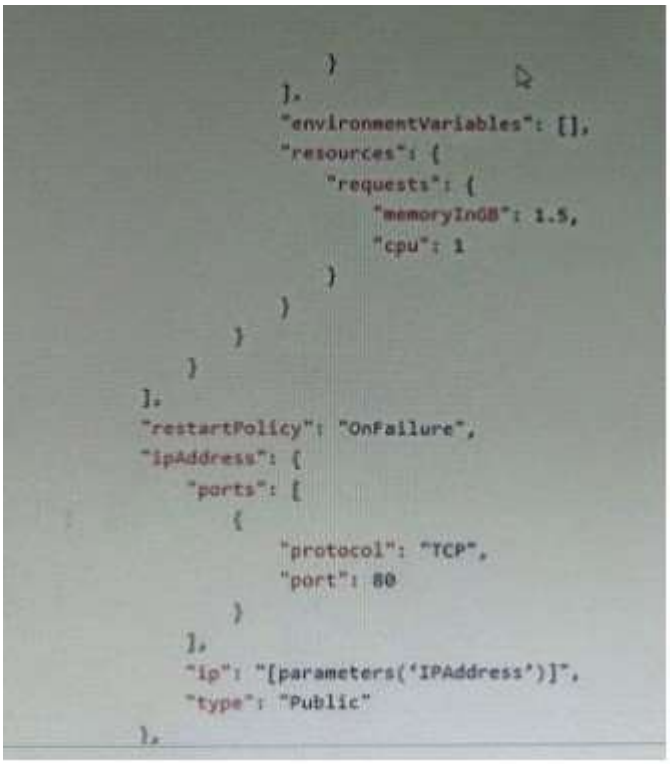
Reference:

QUESTION 9
HOTSPOT

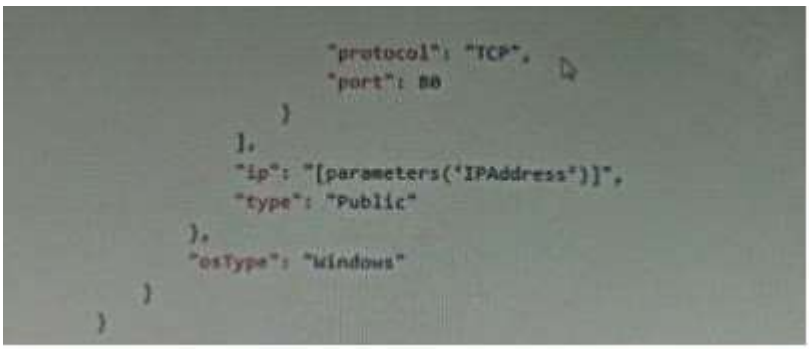
You plan to deploy an Azure container instance by using the following Azure Resource Manager template.



```
{
    "type": "Microsoft.ContainerInstance/containerGroups",
    "apiVersion": "2018-10-01",
    "name": "webprod",
    "location": "westus",
    "properties": {
        "containers": [
            {
                "name": "webprod",
                "properties": {
                    "image": "microsoft/iis:nanoserver",
                    "ports": [
                        {
                            "protocol": "TCP",
                            "port": 80
                        }
                    ],
                    "environmentVariables": [],
                    "resources": {
```



```
                    }
                ],
                "environmentVariables": [],
                "resources": {
                    "requests": {
                        "memoryInGB": 1.5,
                        "cpu": 1
                    }
                }
            }
        }
    ],
    "restartPolicy": "OnFailure",
    "ipAddress": {
        "ports": [
            {
                "protocol": "TCP",
                "port": 80
            }
        ],
        "ip": "[parameters('IPAddress')]",
        "type": "Public"
    },
```

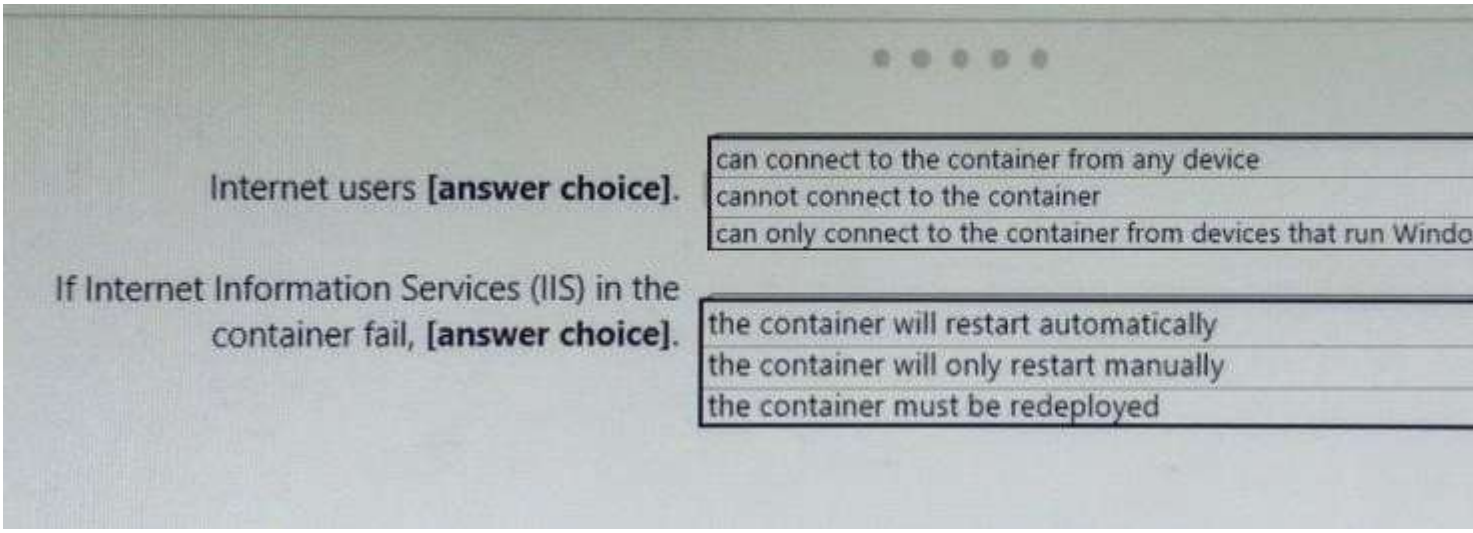


```
                "protocol": "TCP",
                "port": 80
            }
        ],
        "ip": "[parameters('IPAddress')]",
        "type": "Public"
    },
    "osType": "Windows"
  }
}
```

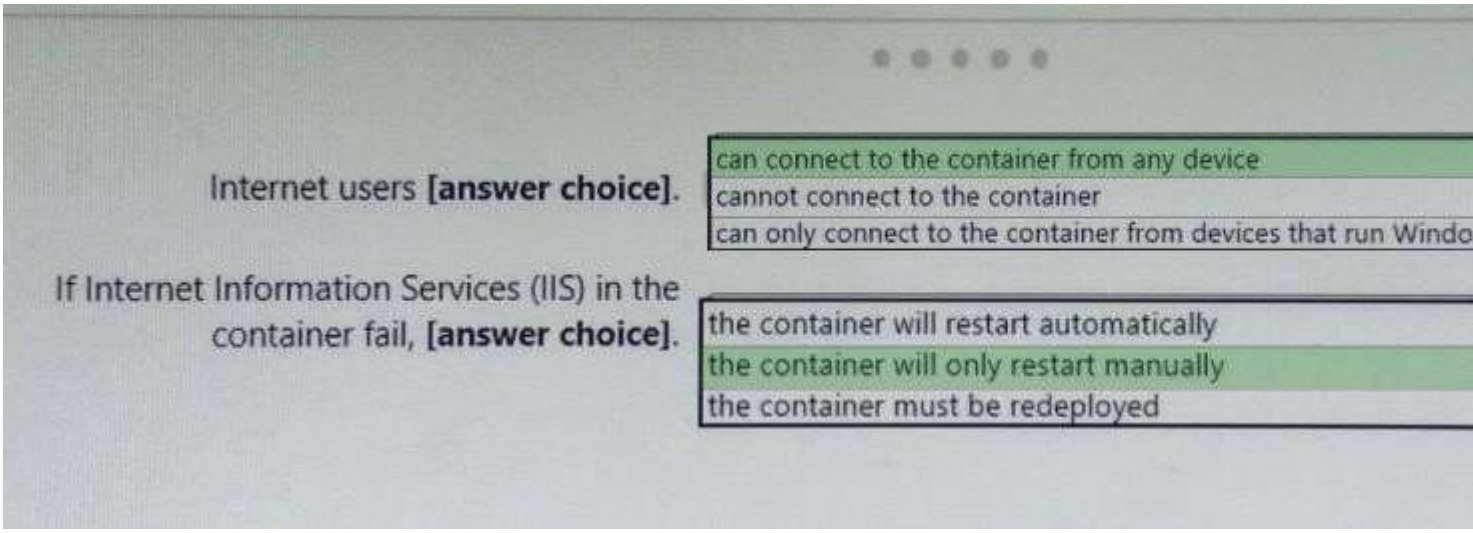
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the template.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

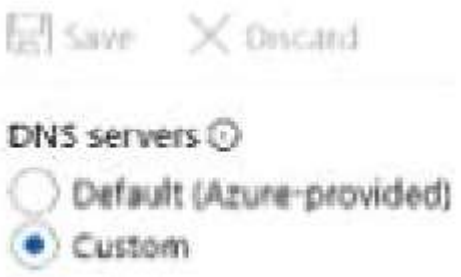
Reference:

QUESTION 10
You have the Azure virtual machines shown in the following table.

Name	IP address	Connected to
VM1	10.1.0.4	VNET1/Subnet1
VM2	10.1.10.4	VNET1/Subnet2
VM3	172.16.0.4	VNET2/SubnetA
VM4	10.2.0.8	VNET3/Subnet8

A DNS service is installed on VM1.

You configure the DNS server settings for each virtual network as shown in the following exhibit:



You need to ensure that all the virtual machines can resolve DNS names by using the DNS service on VM1.

What should you do?

A. Add service endpoints on VNET2 and VNET3.
B. Configure peering between VNE11, VNETT2, and VNET3.
C. Configure a conditional forwarder on VM1
D. Add service endpoints on VNET1.

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-name-resolution-for-vms-and-role-instances

QUESTION 11
You have an Azure Active Directory (Azure AD) tenant named contoso.com that is synced to an Active Directory domain.

The tenant contains the users shown in the following table.

Name	Type	Source
User1	Member	Azure AD
User2	Member	Windows Server Active Directory
User3	Guest	Microsoft account
User4	Member	Windows Server Active Directory

The users have the attributes shown in the following table.

Name	Office phone	Mobile phone
User1	222-555-1234	222-555-2345
User2	null	null
User3	222-555-1234	222-555-2346
User4	222-555-1234	null

You need to ensure that you can enable Azure Multi-Factor Authentication (MFA) for all four users.

Solution:
You add an office phone number for User2.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

User3 requires a user account in Azure AD.
Note: Your Azure AD password is considered an authentication method. It is the one method that cannot be disabled.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication- methods

QUESTION 12
You have two Azure virtual machines named VM1 and VM2.
You have two Recovery Services vaults named RSV1 and RSV2.
VM2 is protected by RSV1.

You need to use RSV2 to protect VM2.

What should you do first?

A. From the RSV1 blade, click Backup items and stop the VM2 backup.
B. From the RSV1 blade, click Backup Jobs and export the VM2 backup.
C. From the RSV1 blade, click Backup. From the Backup blade, select the backup for the virtual machine, and then click Backup.
D. From the VM2 blade, click Disaster recovery, click Replication settings, and then select RSV2 as the Recovery Services vault.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm

QUESTION 13

HOTSPOT

You have an Azure subscription that contains an Azure Storage account.
You plan to copy an on-premises virtual machine image to a container named vmimages.
You need to create the container for the planned image.

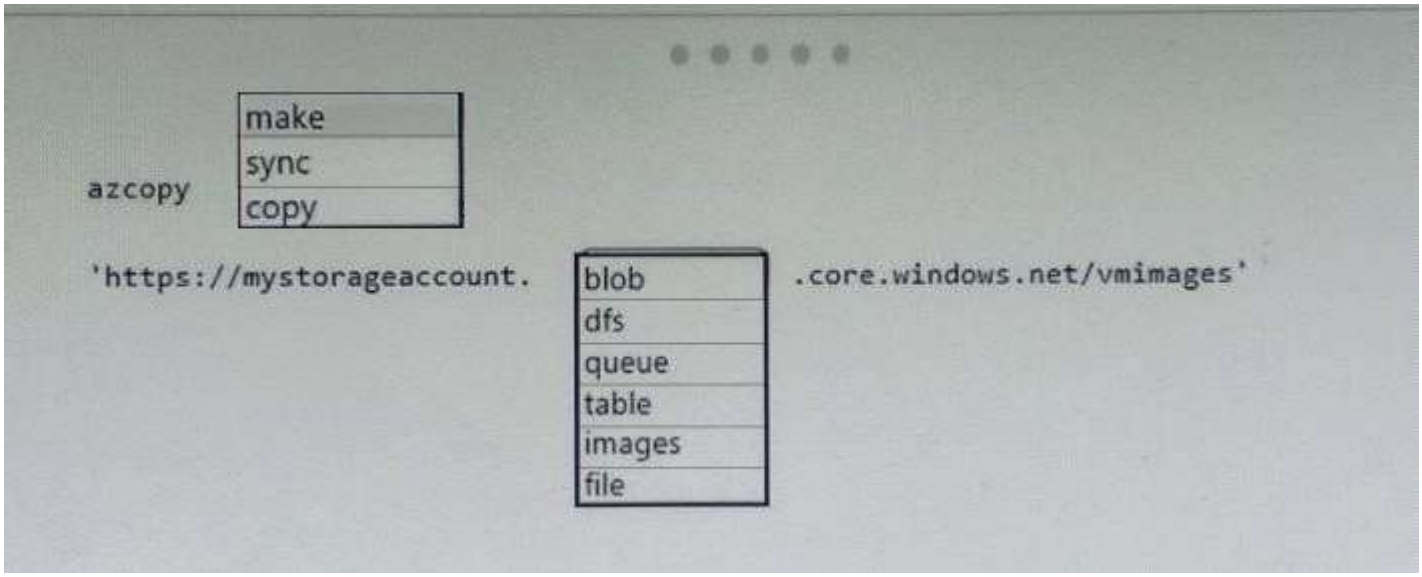
Which command should you run?

To answer, select the appropriate options in the answer area.

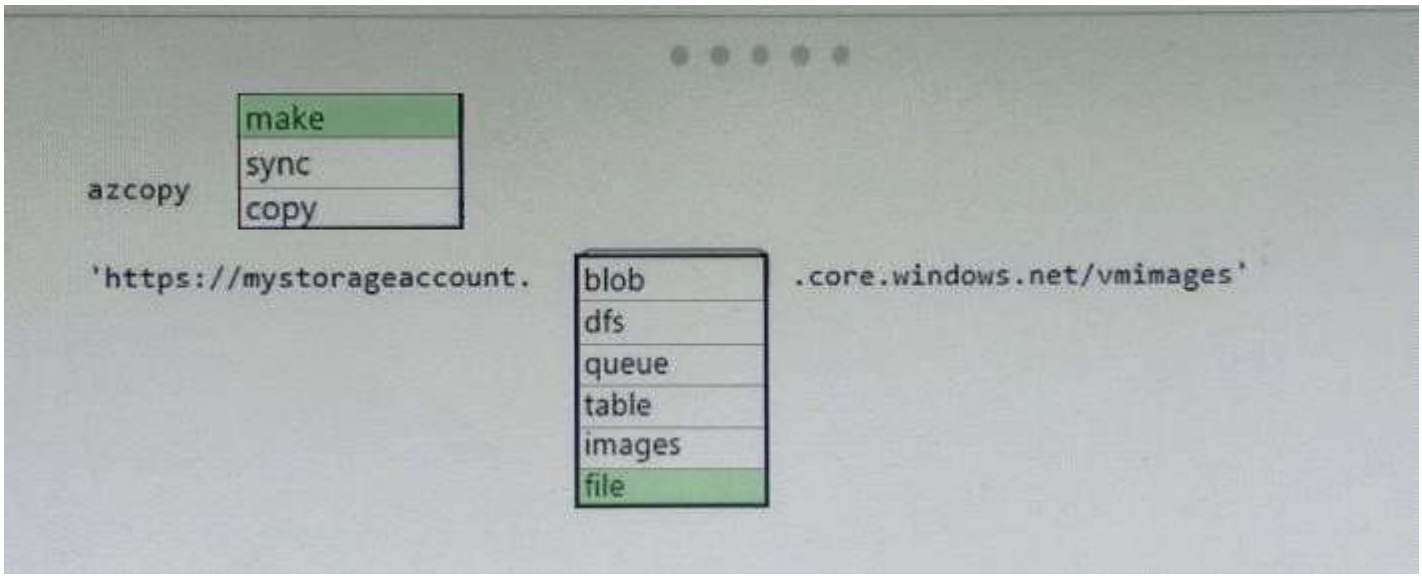
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

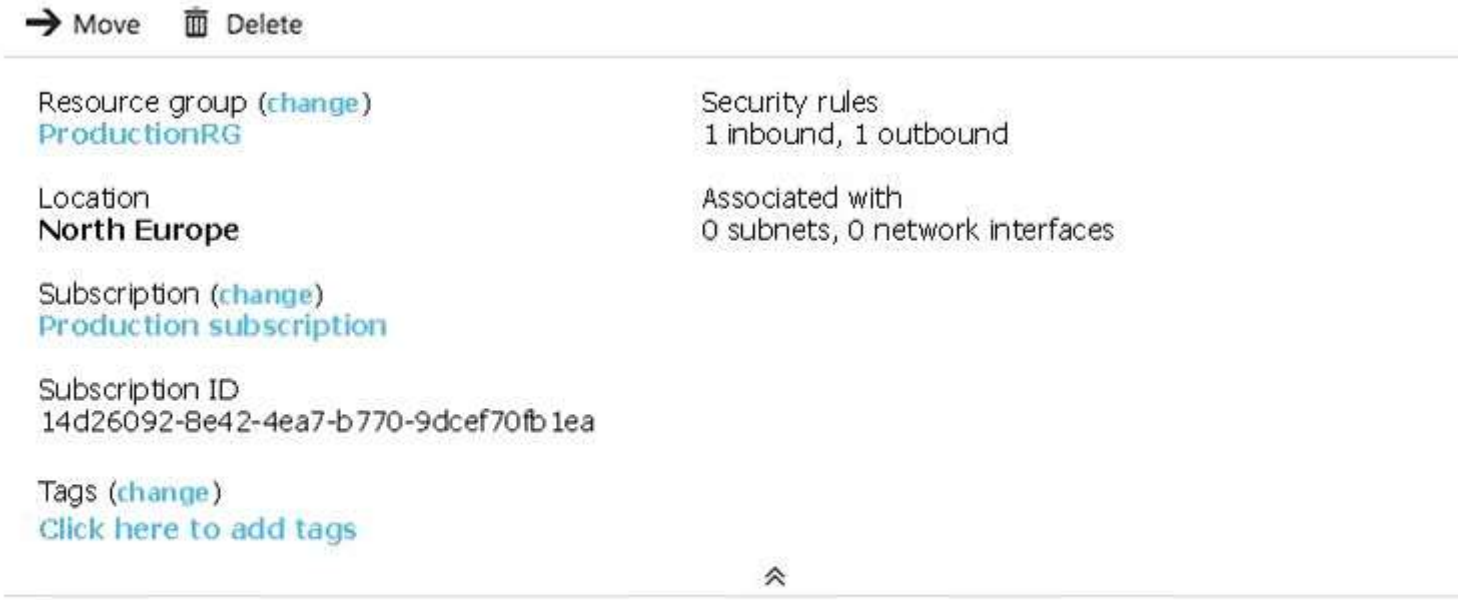
Reference:

QUESTION 14
You have an Azure subscription that contains the resources in the following table.

Name	Type	Details
VNet1	Virtual network	*Not applicable*
Subnet1	Subnet	Hosted on VNet1
VM1	Virtual machine	On Subnet1
VM2	Virtual machine	On Subnet1

VM1 and VM2 are deployed from the same template and host line-of-business applications accessed by using Remote Desktop.

You configure the network security group (NSG) shown in the exhibit.
(Click the Exhibit button.)



Inbound security rules

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINA
1500	Port_80	80	TCP	Internet	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNe
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any
65500	DenyAllBound	Any	Any	Any	Any

Outbound security rules

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINA
1000	DenyWebSites	80	TCP	Any	Internet
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNe
65001	AllowInternetOutBound	Any	Any	Any	Internet
65500	DenyAllOutBound	Any	Any	Any	Any

You need to prevent users of VM1 and VM2 from accessing websites on the Internet.

What should you do?

A. Associate the NSG to Subnet1.
B. Disassociate the NSG from a network interface.
C. Change the DenyWebSites outbound security rule.
D. Change the Port_80 inbound security rule.

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

You can associate or dissociate a network security group from a network interface or subnet. The NSG has the appropriate rule to block users from accessing the Internet. We just need to associate it with Subnet1.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/manage-network-security-group

QUESTION 15
You need to define a custom domain name for Azure AD to support the planned infrastructure.

Which domain name should you use?

Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

A. Join the client computers in the Miami office to Azure AD.
B. Add http://autologon.microsoftazuread-sso.com to the intranet zone of each client computer in the Miami office.
C. Allow inbound TCP port 8080 to the domain controllers.
D. Install Azure AD Connect on a server in the Miami office and enable Pass-through Authentication.
E. Install the Active Directory Federation Services (AD FS) role on a domain controller in the Miami office.

Correct Answer: BD
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

Every Azure AD directory comes with an initial domain name in the form of domainname.onmicrosoft.com. The initial domain name cannot be changed or deleted, but you can add your corporate domain name to Azure AD as well.
For example, your organization probably has other domain names used to do business and users who sign in using your corporate domain name. Adding custom domain names to Azure AD allows you to assign user names in the directory that are familiar to your users, such as 'alice@contoso.com.' instead of 'alice@domain name.onmicrosoft.com'.

Scenario:
Network Infrastructure: Each office has a local data center that contains all the servers for that office. Each office has a dedicated connection to the Internet. Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com Planned Azure AD Infrastructure: The on-premises Active Directory domain will be synchronized to Azure AD.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/add-custom-domain

QUESTION 16
You need to meet the user requirement for Admin1.

What should you do?

Case Study Title (Case Study):
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier
Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

Q.172
A.
B.
C. D.
Correct Answer: A

A. From the Subscriptions blade, select the subscription, and then modify the Properties.
B. From the Subscriptions blade, select the subscription, and then modify the Access control (IAM) settings.
C. From the Azure Active Directory blade, modify the Properties.
D. From the Azure Active Directory blade, modify the Groups.

Correct Answer: A
Section: Topic 3 - Contoso Ltd
Explanation

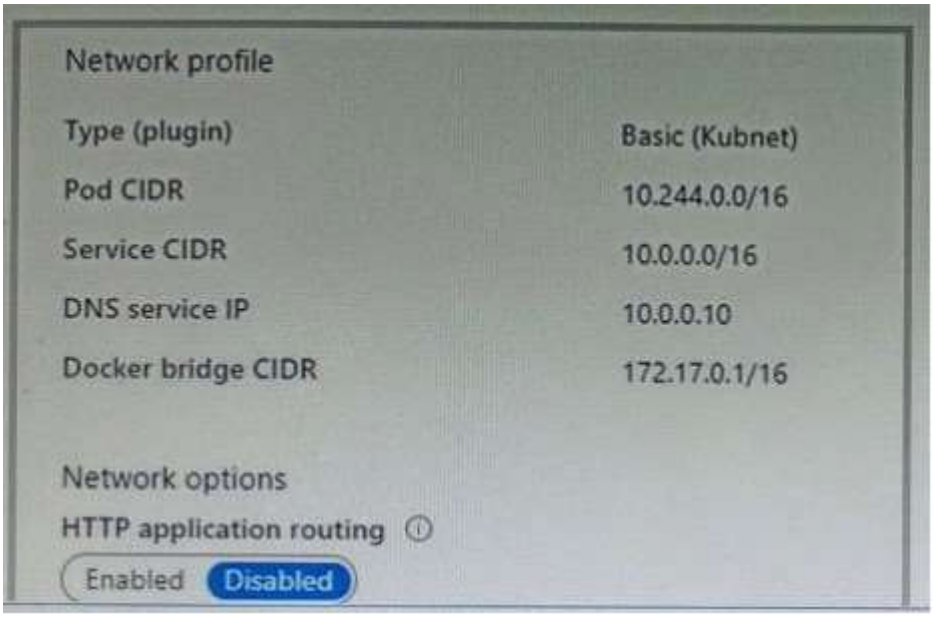
Explanation/Reference:
Explanation:

Change the Service administrator for an Azure subscription
* Sign in to Account Center as the Account administrator.
* Select a subscription.
* On the right side, select Edit subscription details. Scenario: Designate a new user named Admin1 as the service administrator of the Azure subscription.

Reference:
https://docs.microsoft.com/en-us/azure/billing/billing-add-change-azure-subscription- administrator

QUESTION 17
HOTSPOT

You deploy an Azure Kubernetes Service (AKS) cluster that has the network profile shown in the following exhibit.

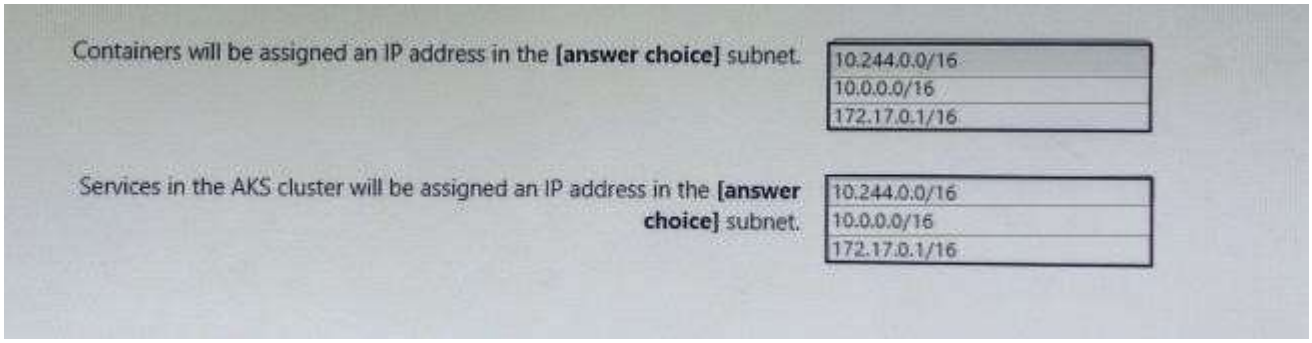


Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

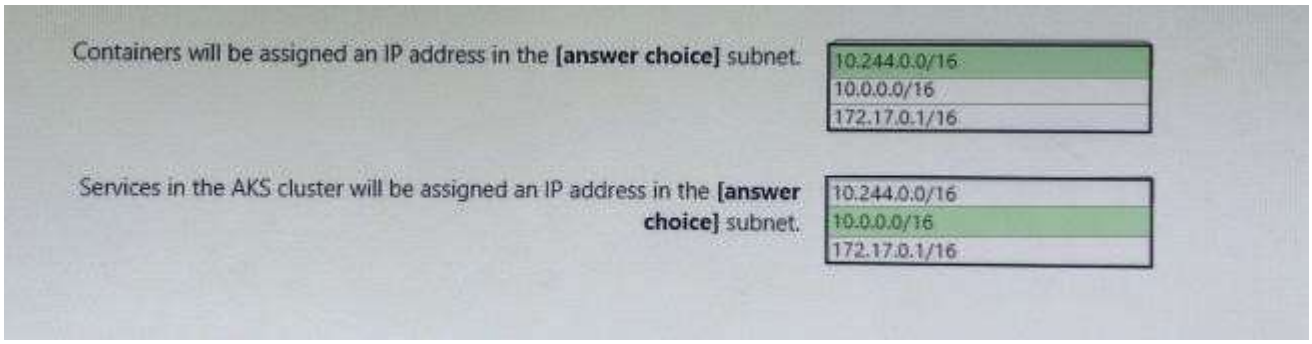
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

Reference:

QUESTION 18
You have an Azure subscription.

Users access the resources in the subscription from either home or from customer sites.
From home, users must establish a point-to-site VPN to access the Azure resources.
The users on the customer sites access the Azure resources by using site-to-site VPNs.
You have a line-of-business app named App1 that runs on several Azure virtual machine.
The virtual machines run Windows Server 2016.

You need to ensure that the connections to App1 are spread across all the virtual machines.

What are two possible Azure services that you can use?

Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. a public load balancer
B. Traffic Manager

C. an Azure Content Delivery Network (CDN)
D. an internal load balancer
E. an Azure Application Gateway

Correct Answer: DE
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 19
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains 10 virtual networks.
The virtual networks are hosted in separate resource groups.
Another administrator plans to create several network security groups (NSGs) in the subscription.
You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution:
From the Resource providers blade, you unregister the Microsoft.ClassicNetwork provider.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

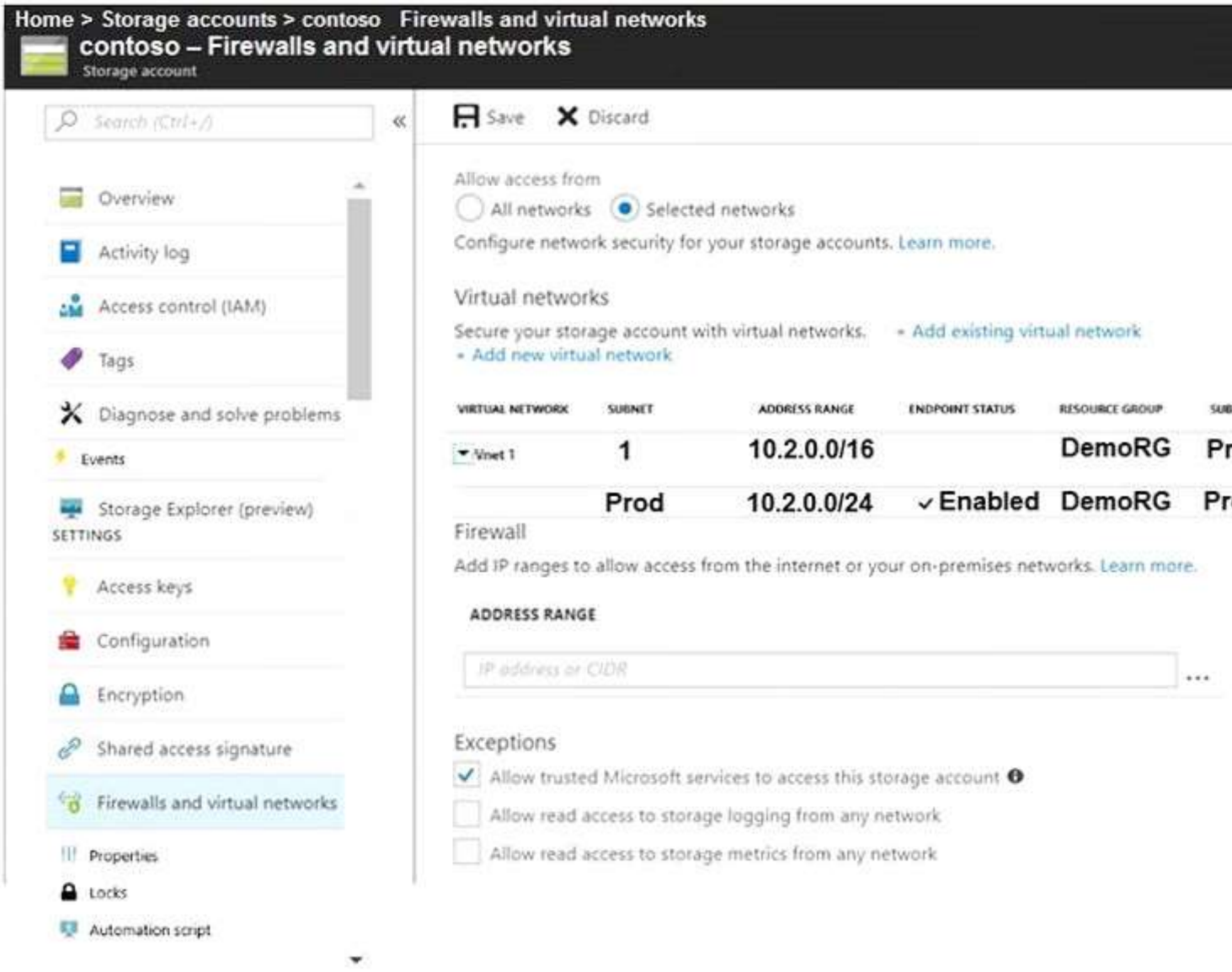
You should use a policy definition.

Reference:
https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

QUESTION 20
HOTSPOT

You have several Azure virtual machines on a virtual network named VNet1.

You configure an Azure Storage account as 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.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account.

always
during a
never

Azure Backup will be able to back up the umanaged hard disks of the virtual machines in the storage account.

always
during a
never

Correct Answer:

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account.

always
during a
never

Azure Backup will be able to back up the umanaged hard disks of the virtual machines in the storage account.

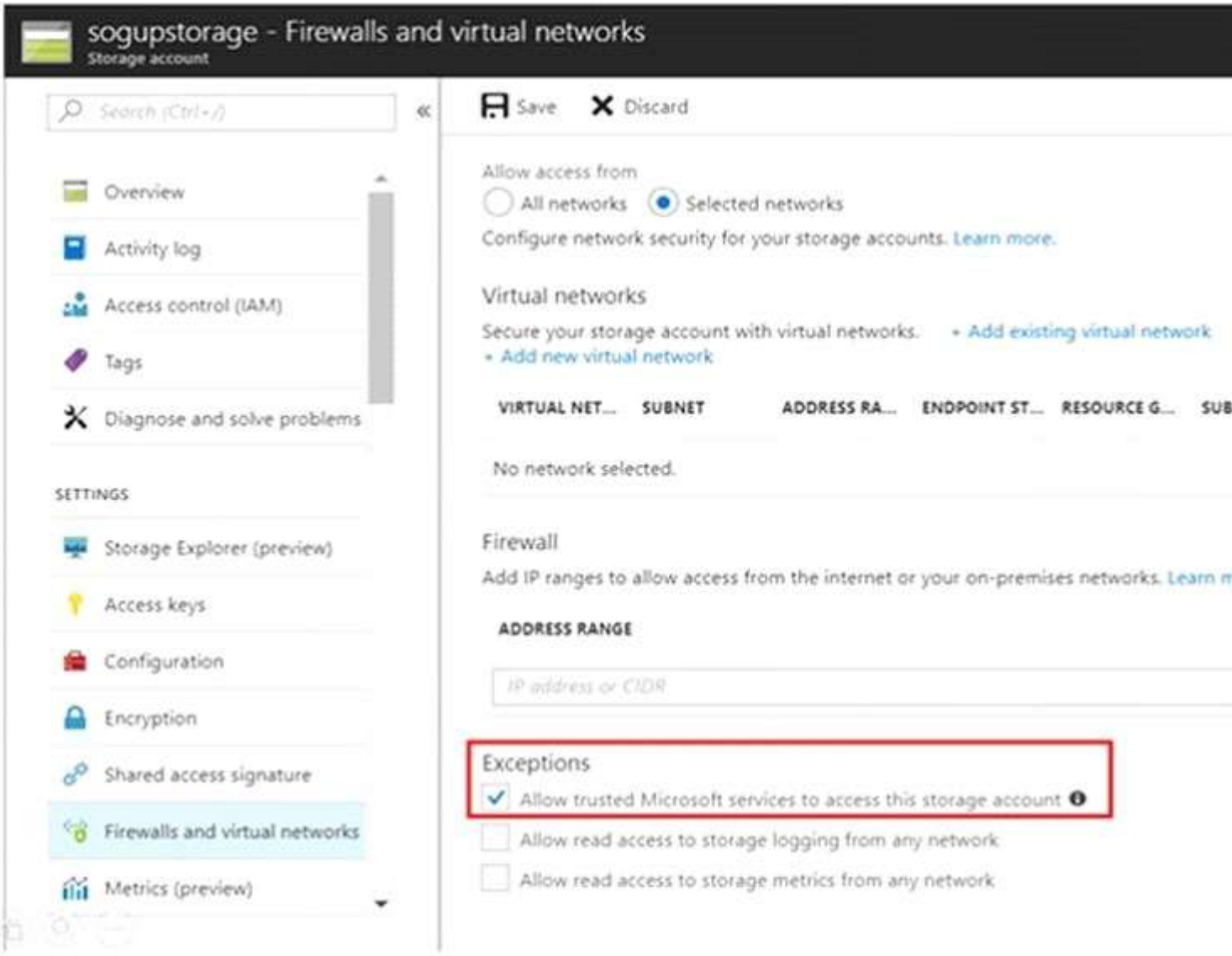
always
during a
never

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: always
Endpoint status is enabled.

Box 2: Never
After you configure firewall and virtual network settings for your storage account, select Allow trusted Microsoft services to access this storage account as an exception to enable Azure Backup service to access the network restricted storage account.



Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows
https://azure.microsoft.com/en-us/blog/azure-backup-now-supports-storage-accounts-secured-with-azure-storage-firewalls-and-virtual-networks/

QUESTION 21
You have two Azure virtual networks named VNet1 and VNet2. VNet1 contains an Azure virtual machine named VM1.

VNet2 contains an Azure virtual machine named VM2. VM1 hosts a frontend application that connects to VM2 to retrieve data.
Users report that the frontend application is slower than usual.

You need to view the average round-trip time (RTT) of the packets from VM1 to VM2.

Which Azure Network Watcher feature should you use?

A. NSG flow logs
B. Connection troubleshoot
C. IP flow verify

D. Connection monitor

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The Connection Monitor feature in Azure Network Watcher is now generally available in all public regions. Connection Monitor provides you RTT values on a per-minute granularity. You can monitor a direct TCP connection from a virtual machine to a virtual machine, FQDN, URI, or IPv4 address.

Reference:
https://azure.microsoft.com/en-us/updates/general-availability-azure-network-watcher-connection-monitor-in-all-public-regions/

QUESTION 22
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1.
Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.
You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Dev, you assign the Contributor role to the Developers group.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The Logic App Contributor role lets you manage logic app, but not access to them. It provides access to view, edit, and update a logic app.

Reference:
https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles
https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-securing-a-logic-app

QUESTION 23
You have an Azure subscription that contains a user account named User1.

You need to ensure that User1 can assign a policy to the tenant root management group.

What should you do?

A. Assign the Owner role to User1, and then instruct User1 to configure access management for Azure resources.

B. Assign the Global administrator role to User1, and then instruct User1 to configure access management for Azure resources.
C. Assign the Global administrator role to User1, and then modify the default conditional access policies.
D. Assign the Owner role to User1, and then modify the default conditional access policies.

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 24
HOTSPOT

You have a pay-as-you-go Azure subscription that contains the virtual machines shown in the following table.

Name	Resource group	Daily cost
VM1	RG1	20 euros
VM2	RG2	30 euros

You create the budget shown in the following exhibit.

Budget1
Resource group

Edit budget Delete budget

BUDGET SUMMARY

Name	Budget1
Scope	RG1 (Resource group)
Filters	–
Ammount	1,000.00 EUR
Budget period	Resets billing month
Start date	6/20/2019
End date	6/19/2021

BUDGET ALERTS

	% OF BUDGET	AMOUNT	ACTION GROUP	ACTION GROU
Alert conditions	50%	€500	AG1	1 Email
	70%	€700	AG2	1 SMS
	100%	€1,000	AG3	1 Azure app
Alert recipients (email)	User1@Contoso.com			

The AG1 action group contains a user named admin@contoso.com only.

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

When the maximum amount in Budget1 is reached. **[answer choice].**

- VM1 and VM2 are turned off
- VM1 and VM2 continue to run
- VM1 is turned off, and VM2 cont

Based on the current usage costs of the virtual machines. **[answer choice].**

- no email notifications will be ser
- one email notification will be ser
- two email notifications will be se
- three email notifications will be

Correct Answer:

When the maximum amount in Budget1 is reached. **[answer choice].**

- VM1 and VM2 are turned off
- VM1 and VM2 continue to run
- VM1 is turned off, and VM2 cont

Based on the current usage costs of the virtual machines. **[answer choice].**

- no email notifications will be ser
- one email notification will be ser
- two email notifications will be se
- three email notifications will be

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: VM1 is turned off, and VM2 continues to run
The budget alerts are for Resource Group RG1, which include VM1, but not VM2.

Box 2: one email notification will be sent each month. Budget alerts for Resource Group RG1, which include VM1, but not VM2.VM1 consumes 20 Euro/day. The 50% ,500 Euro limit, will be reached in 25 days, and an email will be sent. The 70% and 100% alert conditions will not be reached within a month, and they don't trigger email actions anyway.
Credit alerts: Credit alerts are generated automatically at 90% and at 100% of your Azure credit balance. Whenever an alert is generated, it's reflected in cost alerts and in the email sent to the account owners. 90% and 100% will not be reached though.

Reference:
https://docs.microsoft.com/en-us/azure/cost-management-billing/costs/cost-mgt-alerts-monitor-usage-spending

QUESTION 25
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	East US	*Not applicable*
RG2	Resource group	West Europe	*Not applicable*
RG3	Resource group	North Europe	*Not applicable*
VNET1	Virtual network	Central US	RG1
VM1	Virtual machine	West US	RG2

VM1 connects to a virtual network named VNET2 by using a network interface named NIC1. You need to create a new network interface named NIC2 for VM1.

Solution:
You create NIC2 in RG2 and West US.

Does this meet the goal?

A. Yes
B. NO

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The virtual machine you attach a network interface to and the virtual network you connect it to must exist in the same location, here West US, also referred to as a region.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

QUESTION 26
You have an Azure subscription that contains the following users in an Azure Active Directory tenant named contoso.onmicrosoft.com:

Name	Role	Scope
User1	Global administrator	Azure Active Directory
User2	Global administrator	Azure Active Directory
User3	User administrator	Azure Active Directory
User4	Owner	Azure Subscription

User1 creates a new Azure Active Directory tenant named external.contoso.onmicrosoft.com.

You need to create new user accounts in external.contoso.com.onmicrosoft.com.

Solution:
You instruct User1 to create the user accounts.

Does this meet the Goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Only a global administrator can add users to this tenant.

Reference:
https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/add-users-to-azure-ad

QUESTION 27
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains the following resources:

* A virtual network that has a subnet named Subnet1
* Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1
* A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections NSG-Subnet1 has the default inbound security rules only. NSG-VM1 has the default inbound security rules and the following custom inbound security rule:
* Priority: 100
* Source: Any
* Source port range: *
* Destination: *
* Destination port range: 3389
* Protocol: UDP
* Action: Allow

VM1 connects to Subnet1. NSG1-VM1 is associated to the network interface of VM1. NSG-Subnet1 is associated to Subnet1.

You need to be able to establish Remote Desktop connections from the internet to VM1.

Solution:
You add an inbound security rule to NSG-Subnet1 that allows connections from the Internet source to the VirtualNetwork destination for port range 3389 and uses the UDP protocol.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B

Section: Single Select
Explanation

Explanation/Reference:
Explanation:

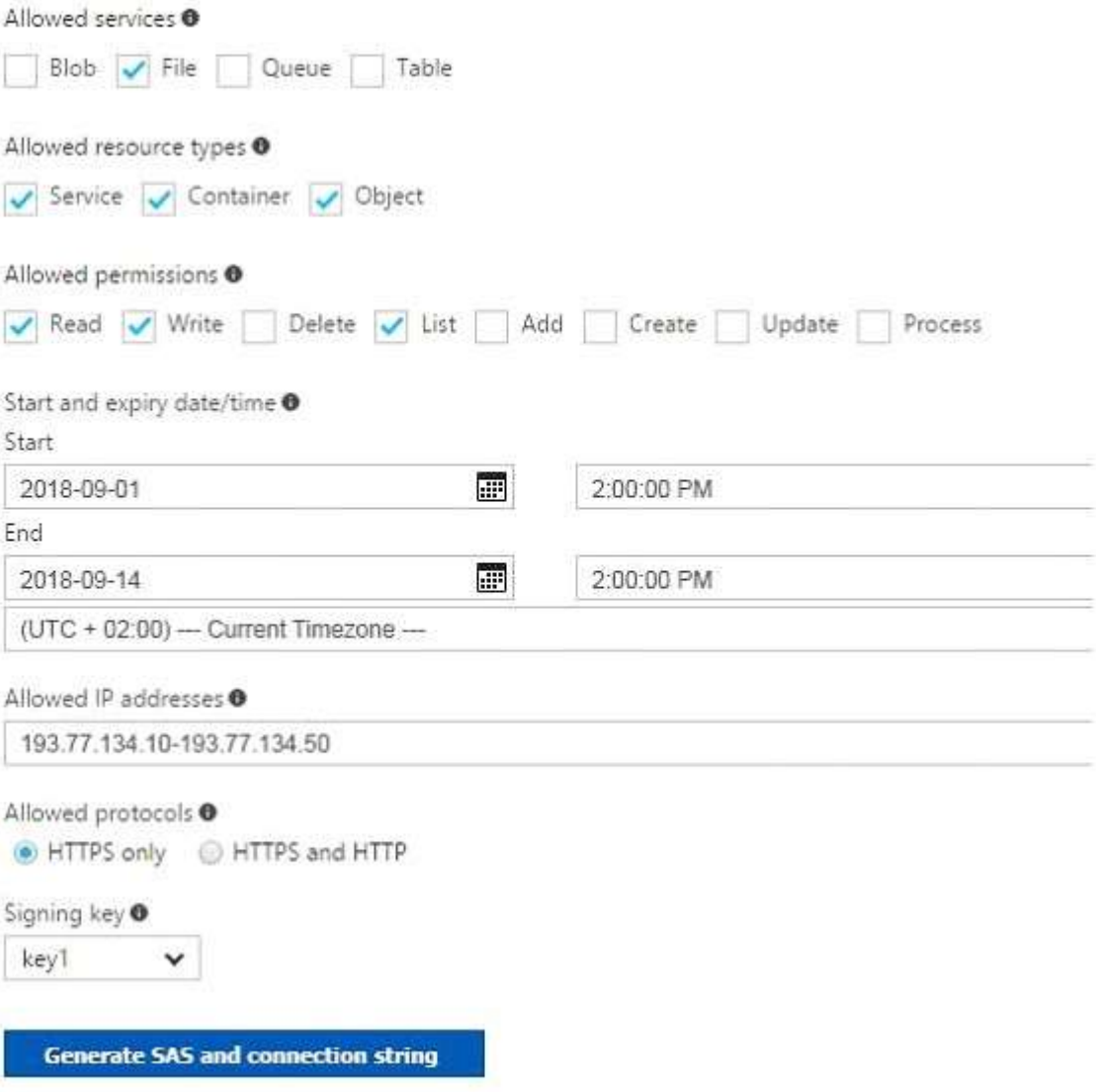
Reference:

QUESTION 28
HOTSPOT

You have an Azure subscription named Subscription1.

In Subscription1, you create an Azure file share named share1.

You create a shared access signature (SAS) named SAS1 as shown in the following exhibit.



To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Answer Area

If on September 2, 2018, you run Microsoft Azure Storage Explorer on a computer that has an IP address of 193.77.134.1, and you use SAS1 to connect to the storage account, you **[answer choice].**

- will be pro
- will have n
- will have r
- will have r

If on September 10, 2018, you run the `net use` command on a computer that has an IP address of 193.77.134.50, and you use SAS1 as the password to connect to share1, you **[answer choice].**

- will be pro
- will have n
- will have r
- will have r

Correct Answer:

Answer Area

If on September 2, 2018, you run Microsoft Azure Storage Explorer on a computer that has an IP address of 193.77.134.1, and you use SAS1 to connect to the storage account, you **[answer choice].**

- will be pro
- will have n
- will have r
- will have r

If on September 10, 2018, you run the `net use` command on a computer that has an IP address of 193.77.134.50, and you use SAS1 as the password to connect to share1, you **[answer choice].**

- will be pro
- will have n
- will have r
- will have r

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Will be prompted for credentials
Azure Storage Explorer is a standalone app that enables you to easily work with Azure Storage data on Windows, macOS, and Linux. It is used for connecting to and managing your Azure storage accounts.

Box 2: Will have read, write, and list access
The net use command is used to connect to file shares.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-dotnet-shared-access-signature-part-1
https://docs.microsoft.com/en-us/azure/vs-azure-tools-storage-manage-with-storage- explorer?tabs=windows

QUESTION 29
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:

* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

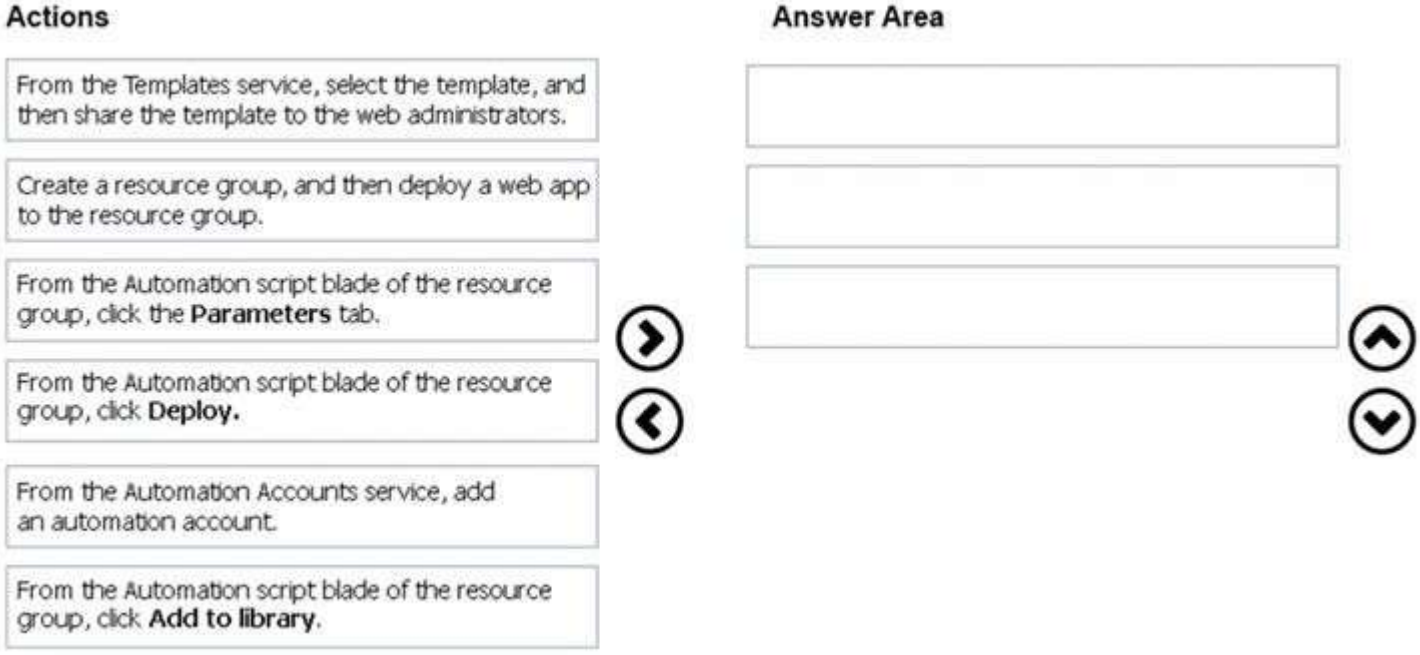
DRAG & DROP

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

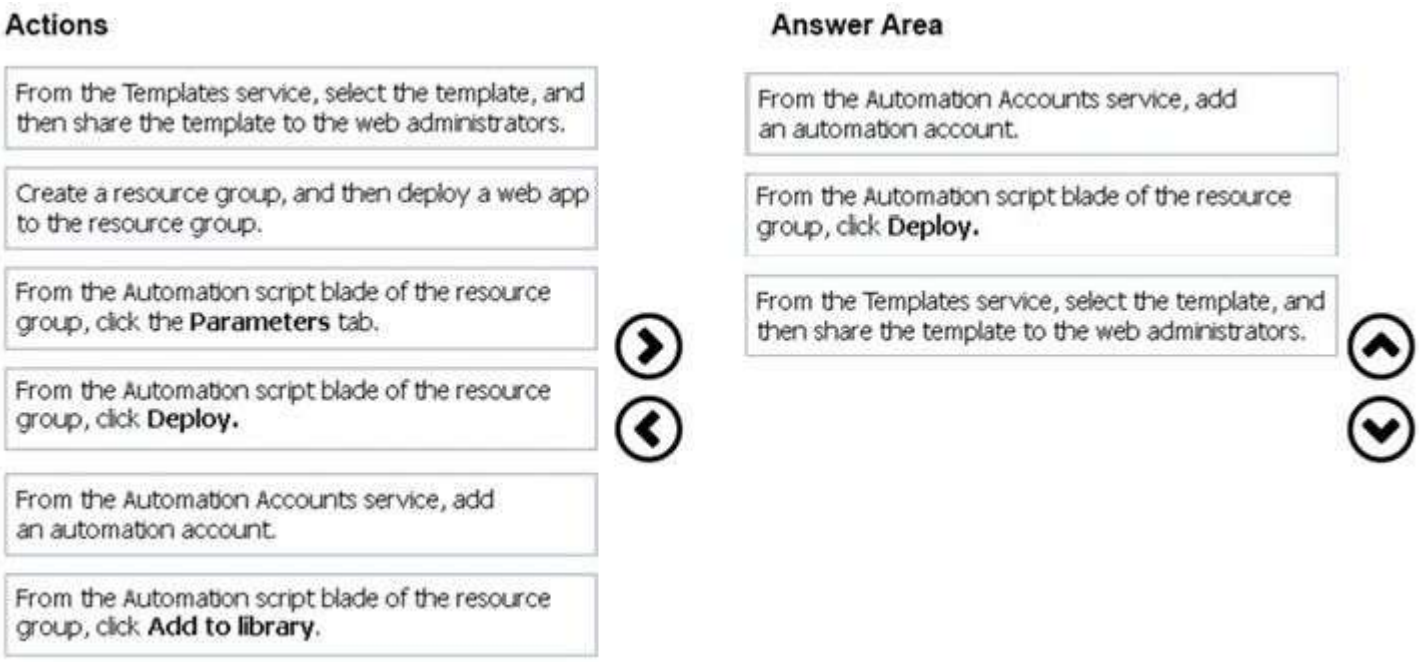
Which three actions should you perform in sequence?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

Step 1:
First you create a storage account using the Azure portal.

Step 2:
Select Automation options at the bottom of the screen. The portal shows the template on the Template tab.
Deploy: Deploy the Azure storage account to Azure.

Step 3:
Share the template.

Scenario:
Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.

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

QUESTION 30
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:

* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

HOTSPOT

Q. You need to identify the storage requirements for Contoso.

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	○	○
Contoso requires a storage account that supports Azure Table storage.	○	○
Contoso requires a storage account that supports Azure File Storage.	○	○

Correct Answer:

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	○	○
Contoso requires a storage account that supports Azure Table storage.	○	○
Contoso requires a storage account that supports Azure File Storage.	○	○

Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

Box 1: Yes
Contoso is moving the existing product blueprint files to Azure Blob storage. Use unmanaged standard storage for the hard disks of the virtual machines. We use Page Blobs for these.

Box 2: No

Box 3: No

Reference:

QUESTION 31
You have an Azure Active Directory (Azure AD) tenant named contoso.onmicrosoft.com.

The User administrator role is assigned to a user named Admin1.
An external partner has a Microsoft account that uses the user1@outlook.com sign in.
Admin1 attempts to invite the external partner to sign in to the Azure AD tenant and receives the following error message: "Unable to invite user user1@outlook.com - Generic authorization exception."

You need to ensure that Admin1 can invite the external partner to sign in to the Azure AD tenant.

What should you do?

A. From the Roles and administrators blade, assign the Security administrator role to Admin1.
B. From the Organizational relationships blade, add an identity provider.
C. From the Custom domain names blade, add a custom domain.

D. From the Users blade, modify the External collaboration settings.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://techcommunity.microsoft.com/t5/Azure-Active-Directory/Generic-authorization-exception- inviting-Azure-AD-gests/td-p/274742

QUESTION 32
You have an Azure virtual machine named VM1.

Azure collects events from VM1.
You are creating an alert rule in Azure Monitor to notify an administrator when an error is logged in the System event log of VM1.

You need to specify which resource type to monitor.

What should you specify?

A. metric alert
B. Azure Log Analytics workspace
C. virtual machine
D. virtual machine extension

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Azure Monitor can collect data directly from your Azure virtual machines into a Log Analytics workspace for detailed analysis and correlation. Installing the Log Analytics VM extension for Windows and Linux allows Azure Monitor to collect data from your Azure VMs.

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/learn/quick-collect-azurevm

QUESTION 33
HOTSPOT

You have Azure virtual machines that run Windows Server 2019 and are configured as shown in the following table.

Name	Private IP address	Public IP address	Virtual network name	DNS suffix configured in Windows Server
VM1	10.1.0.4	52.186.85.63	VNET1	Adatum.com
VM2	10.1.0.5	13.92.168.13	VNET1	Contoso.com

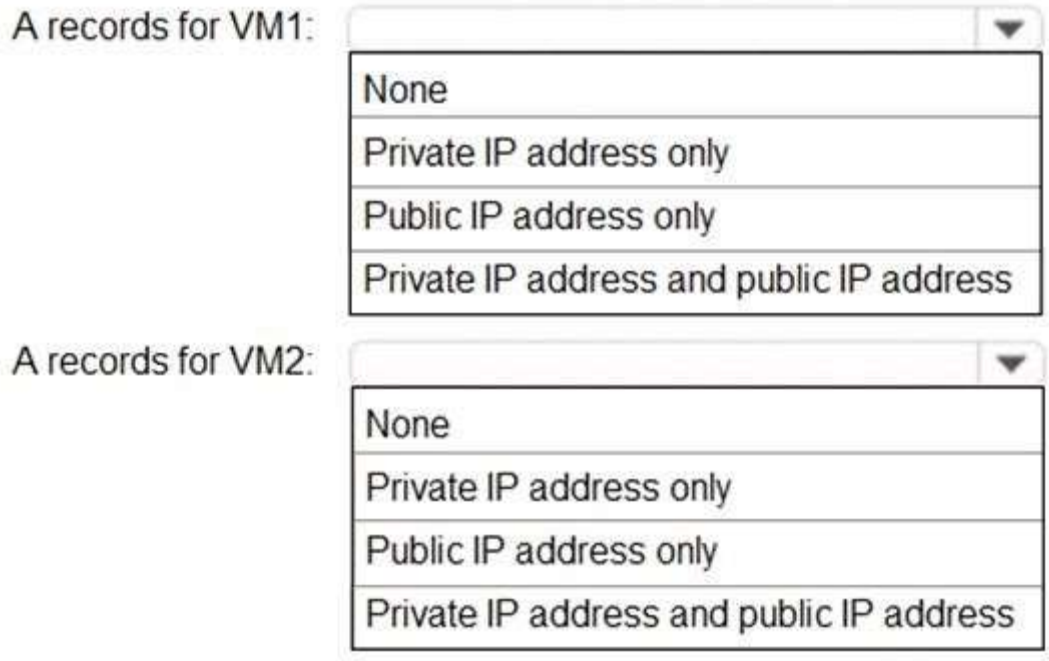
You create a private Azure DNS zone named adatum.com.
You configure the adatum.com zone to allow auto registration from VNET1.
Which A records will be added to the adatum.com zone for each virtual machine?

To answer, select the appropriate options in the answer area.

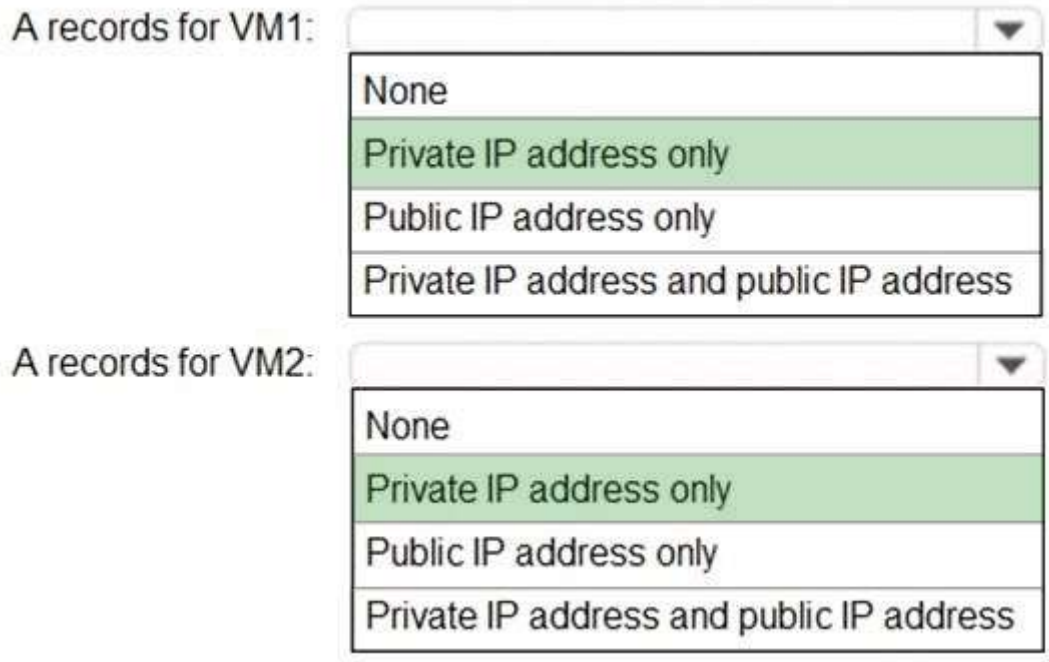
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

The virtual machines are registered (added) to the private zone as A records pointing to their private IP addresses.

Reference:
https://docs.microsoft.com/en-us/azure/dns/private-dns-overview
https://docs.microsoft.com/en-us/azure/dns/private-dns-scenarios

QUESTION 34
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	East US	*Not applicable*
RG2	Resource group	West Europe	*Not applicable*
RG3	Resource group	North Europe	*Not applicable*
VNET1	Virtual network	Central US	RG1
VM1	Virtual machine	West US	RG2

VM1 connects to a virtual network named VNET2 by using a network interface named NIC1.

You need to create a new network interface named NIC2 for VM1.

Solution:
You create NIC2 in RG1 and Central US.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The virtual machine you attach a network interface to and the virtual network you connect it to must exist in the same location, here West US, also referred to as a region.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

QUESTION 35
You have an Azure subscription that contains an Azure Storage account.

You plan to create an Azure container instance named container1 that will use a Docker image namedImage1. Image1 contains a Microsoft SQL Server instance that requires persistent storage.

You need to configure a storage service for Container1.

What should you use?

A. Azure Files
B. Azure Blob storage
C. Azure Queue storage
D. Azure Table storage

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference

QUESTION 36
HOTSPOT

You have an Azure virtual machine mat runs Windows Server 2019 and has the following configurations:

* Name:VM1
* Location: Welt US
* Connected to: VNfT1
* Private IP address: 10.1.0.4
* Public IP address: 52 18685.63
* DNS suffix m Windows Server.Adatum.com

You create the Azure DNS zones shown in the following table.

Name	Type	Location
Adatum.pri	Private	West Europe
Contoso.pri	Private	Central US
Adatum.com	Public	West Europe
Contoso.com	Public	North Europe

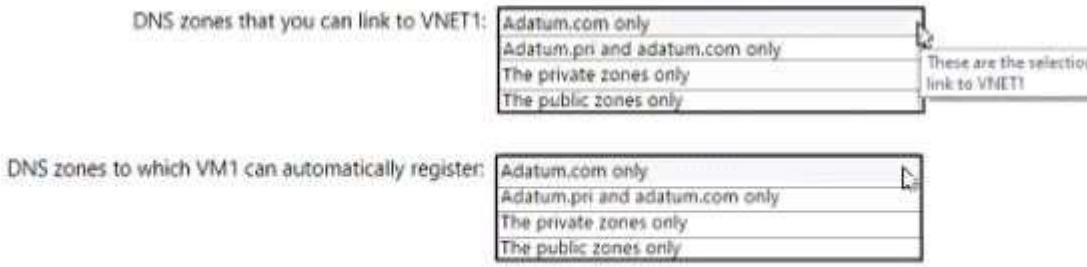
To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

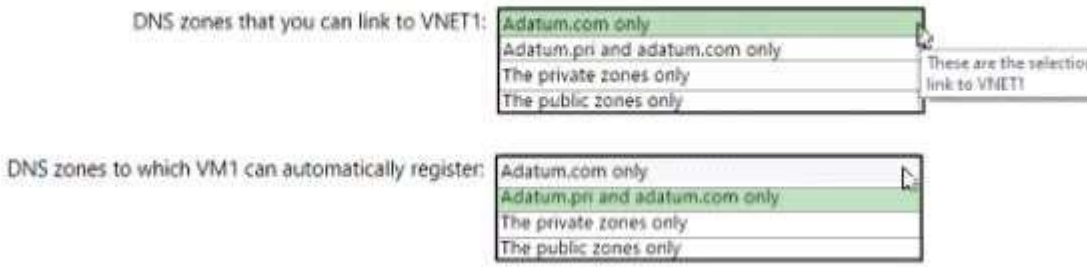
Hot Area:

Answer Area



Correct Answer:

Answer Area



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Reference:

Exam D

QUESTION 1
Topic 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.

All the resources used by Litware are hosted on-premises. 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.

Existing Environment

The network contains an Active Directory forest named Litware.com. All domain controllers are configured as DNS servers and host the Litware.com DNS zone.
Litware has finance, human resources, sales, research, and information technology departments.
Each department has an organizational unit (OU) that contains all the accounts of that respective department.
All the user accounts have the department attribute set to their respective department.
New users are added frequently.
Litware.com contains a user named User1.
All the offices connect by using private links.
Litware has data centers in the Montreal and Seattle offices.
Each data center has a firewall that can be configured as a VPN device.
All infrastructure servers are virtualized.

The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

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
VM4	Virtual machine

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.

HOTSPOT

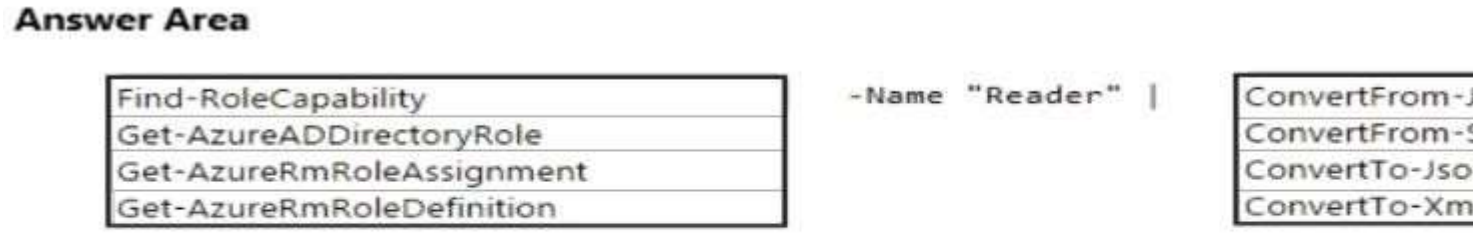
Q. You need to implement Role1.

Which command should you run before you create Role1?

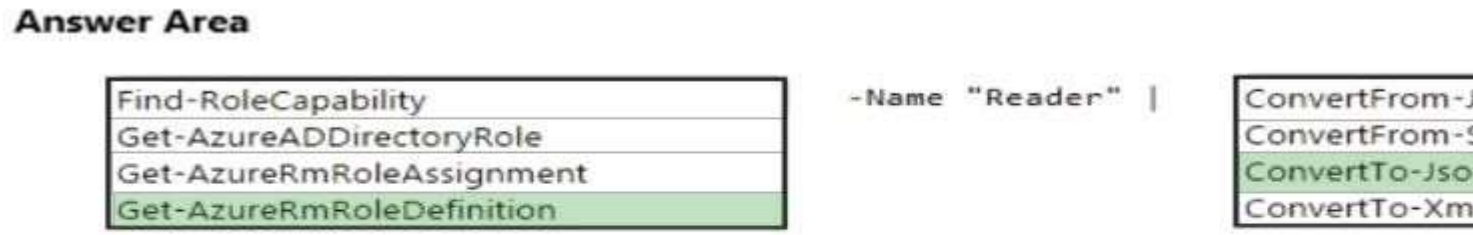
To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Section: Topic 1 - Litware Inc.
Explanation

Explanation/Reference:

QUESTION 2
You have an Azure subscription that contains a storage account named account1. You plan to upload the disk files of a virtual machine to account1 from your on-premises network.

The on-premises network uses a public IP address space of 131.107.1.0/24.
You plan to use the disk files to provision an Azure virtual machine named VM1.
VM1 will be attached to a virtual network named VNet1.
VNet1 uses an IP address space of 192.168.0.0/24.

You need to configure account1 to meet the following requirements:

* Ensure that you can upload the disk files to account1.
* Ensure that you can attach the disks to VM1.
* Prevent all other access to account1.

Which two actions should you perform? Each correct selection presents part of the solution.

NOTE: Each correct selection is worth one point.

A. From the Firewalls and virtual networks blade of account1, add the 131.107.1.0/24 IP address range.
B. From the Firewalls and virtual networks blade of account1, select Selected networks.
C. From the Firewalls and virtual networks blade of acount1, add VNet1.
D. From the Firewalls and virtual networks blade of account1, select Allow trusted Microsoft services to access this storage account.
E. From the Service endpoints blade of VNet1, add a service endpoint.

Correct Answer: BE
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

B: By default, storage accounts accept connections from clients on any network. To limit access to selected networks, you must first change the default action.
Azure portal Navigate to the storage account you want to secure. Click on the settings menu called Firewalls and virtual networks. To deny access by default, choose to allow access from 'Selected networks'. To allow traffic from all networks, choose to allow access from 'All networks'.
Click Save to apply your changes.

E: Grant access from a Virtual Network
Storage accounts can be configured to allow access only from specific Azure Virtual Networks. By enabling a Service Endpoint for Azure Storage within the Virtual Network, traffic is ensured an optimal route to the Azure Storage service. The identities of the virtual network and the subnet are also transmitted with each request.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-network-security

QUESTION 3
You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Kind	Performance	Replication	Access tier
Storage1	Storage (general purpose v1)	Premium	Geo-redundant storage (GRS)	*None*
Storage2	StorageV2 (general purpose v2)	Standard	Locally-redundant storage (LRS)	Cool
Storage3	StorageV2 (general purpose v2)	Premium	Read-access geo-redundant storage (RA-GRS)	Hot
Storage4	BlobStorage	Standard	Locally-redundant storage (LRS)	Hot

You need to identify which storage account can be converted to zone-redundant storage (ZRS) replication by requesting a live migration from Azure support.

What should you identify?

A. Storage1
B. Storage2
C. Storage3
D. Storage4

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

ZRS currently supports standard general-purpose v2, FileStorage and BlockBlobStorage storage account types.

Incorrect Answers:

A, not C: Live migration is supported only for storage accounts that use LRS replication. If your account uses GRS or RA-GRS, then you need to first change your account's replication type to LRS before proceeding. This intermediary step removes the secondary endpoint provided by GRS/RA-GRS .Also, only standard storage account types support live migration. Premium storage accounts must be migrated manually.
D: ZRS currently supports standard general-purpose v2, FileStorage and BlockBlobStorage storage account types.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-zrs

QUESTION 4
HOTSPOT

You have an Azure subscription that contains an Azure Availability Set named WEBPROD-AS- USE2 as shown in the following exhibit.

```
PS Azure:\> az vm availability-set list    RG1
[
  {
    "id": "/subscriptions/8372f433-2dcd-4361-b5ef-5b188fed87d0/resourceGr
oups/RG1/providers/Microsoft.Compute/availabilitySets/WEBPROD-AS-USE2",
    "location": "eastus2",
    "name": "WEBPROD-AS-USE2",
    "platformFaultDomainCount": 2,
    "platformUpdateDomainCount": 10,
    "proximityPlacementGroup": null,
    "resourceGroup": "RG1",
    "sku": {
      "capacity": null,
      "name": "Aligned",
      "tier": null
    },
    "statuses": null,
    "tags": {},
    "type": "Microsoft.Compute/availabilitySets",
    "virtualMachines": []
  }
]
Azure:/
```

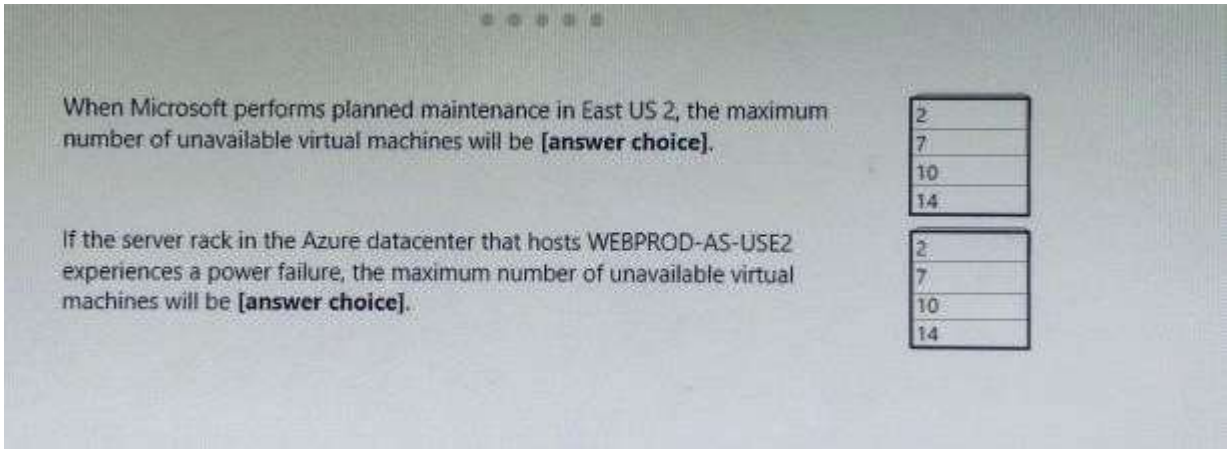
You add 14 virtual machines to WEBPROD-AS-USE2.

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

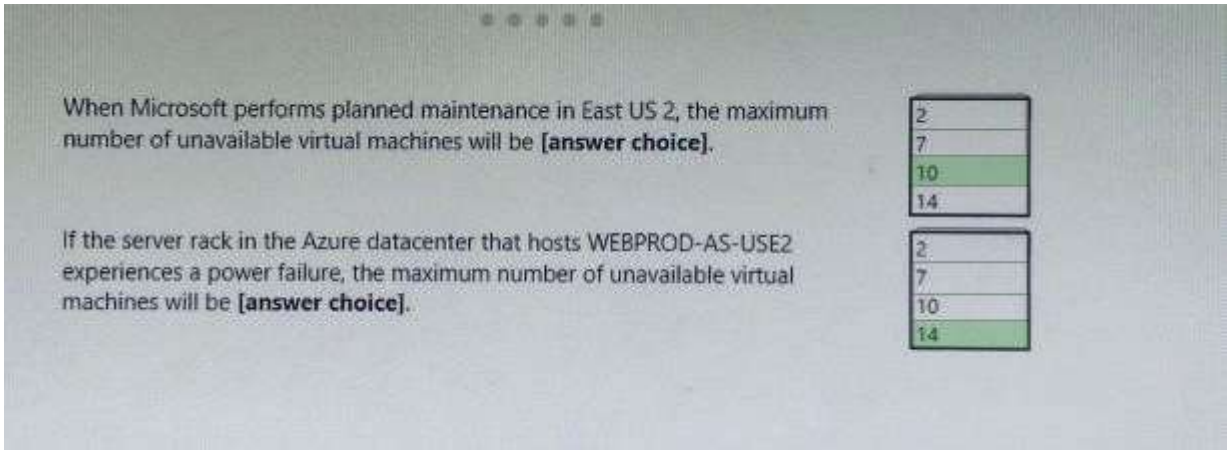
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 5
Your on-premises network contains an SMB share named Share1. You have an Azure subscription that contains the following resources:

A web app named webapp1
A virtual network named VNET1
You need to ensure that webapp1 can connect to Share1.

What should you deploy?

A. an Azure Application Gateway
B. an Azure Active Directory (Azure AD) Application Proxy
C. an Azure Virtual Network Gateway

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

A Site-to-Site VPN gateway connection can be used to connect your on-premises network to an Azure virtual network over an IPsec/IKE (IKEv1 or IKEv2) VPN tunnel. This type of connection requires a VPN device, a VPN gateway, located on-premises that has an externally facing public IP address assigned to it.

Reference:
https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal

QUESTION 6
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure virtual machine named VM1 that runs Windows Server 2016.

You need to create an alert in Azure when more than two error events are logged to the System log on VM1 within an hour.

Solution:
You create an Azure Log Analytics workspace and configure the data settings.
You add an extension to VM1.
You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Instead: You create an Azure Log Analytics workspace and configure the data settings.

You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 7
HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources in the following table.

Name	Type
VM1	Virtual machine
VM2	Virtual machine
LB1	Load balancer

You install the Web Server server role (IIS) on WM1 and VM2, and then add VM1 and VM2 to LB1.

LB1 is configured as shown in the LB1 exhibit. (Click the Exhibit button.)

Essentials ∨

Resource group (change)
VMRG
Location
West Europe
Subscription name (change)
Azure Pass
Subscription ID
e66d2b22-fde8-4af2-9323-d43516f6eb4e
SKU
Basic

Backend pool
Backend1 (2 virtual machines)
Health probe
Probe1 (HTTP:80/Probe1.htm)
Load balancing rule
Rule1 (TCP/80)
NAT rules
-
Public IP address
104.40.178.194 (LB1)

Rule1 is configured as shown in the Rule1 exhibit. (Click the Exhibit button.)

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes
VM1 is in the same availability set as VM2.	○
If Probe1.htm is present on VM1 and VM2, LB1 will balance TCP port 80 between VM1 and VM2.	○
If you delete Rule1, LB1 will balance all the requests between VM1 and VM2 for all the ports.	○

Correct Answer:

Statements	Yes
VM1 is in the same availability set as VM2.	○
If Probe1.htm is present on VM1 and VM2, LB1 will balance TCP port 80 between VM1 and VM2.	○
If you delete Rule1, LB1 will balance all the requests between VM1 and VM2 for all the ports.	○

Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

Reference:

QUESTION 8
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1.
The point-to-site connection uses a self-signed certificate. From Azure, you download and install the VPN client configuration package on a computer named Computer2.

You need to ensure that you can establish a point-to-site VPN connection to VNet1 from Computer2.

Solution:
You modify the Azure Active Directory (Azure AD) authentication policies.

Does this meet this goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Refereance:

QUESTION 9
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1.
Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution:
On Dev, you assign the Logic App Contributor role to the Developers group.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The Logic App Contributor role lets you manage logic app, but not access to them. It provides access to view, edit, and update a logic app.

Reference:
https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles
https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-securing-a-logic-app

QUESTION 10
You have an Azure virtual machine named VM1 that runs Windows Server 2019.
You save VM1 as a template named Template1 to the Azure Resource Manager library.

You plan to deploy a virtual machine named VM2 from Template1.

What can you configure during the deployment of VM2?

A. virtual machine size
B. operating system
C. administrator username
D. resource group

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

When deploying a virtual machine from a template, you must specify:
* the Resource Group name and location for the VM
* the administrator username and password
* an unique DNS name for the public IP

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/ps-template

QUESTION 11
You have an Azure virtual machine named VM1.

The network interface for VM1 is configured as shown in the exhibit. (Click the Exhibit tab.)

You deploy a web server on VM1, and then create a secure website that is accessible by using the HTTPS protocol VM1 is used as a web server only.

You need to ensure that users can connect to the website from the Internet.

What should you do?

A. Change the priority of Rule3 to 450.
B. Change the priority of Rule6 to 100
C. DeleteRule1.
D. Create a new inbound rule that allows TCP protocol 443 and configure the protocol to have a priority of 501.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 12
HOTSPOT

You have the Azure management groups shown in the following table.

Name	In management group
Tenant Root Group	*Not applicable*
ManagementGroup11	Tenant Root Group
ManagementGroup12	Tenant Root Group
ManagementGroup21	ManagementGroup11

You add Azure subscriptions to the management groups as shown in the following table.

Name	Management group
Subscription1	ManagementGroup21
Subscription2	ManagementGroup12

You create the Azure policies shown in the following table.

Name	Parameter	Scope
Not allowed resource types	`virtualNetworks`	Tenant Root Group
Allowed resource types	`virtualNetworks`	ManagementGroup12

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
You can create a virtual network in Subscription1.	○	○
You can create a virtual machine in Subscription2.	○	○
You can add Subscription1 to ManagementGroup11.	○	○

Correct Answer:

Statements	Yes	No
You can create a virtual network in Subscription1.	○	○
You can create a virtual machine in Subscription2.	○	○
You can add Subscription1 to ManagementGroup11.	○	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Virtual networks are not allowed at the root and is inherited. Deny overrides allowed.

Box 2: Yes
Virtual Machines can be created on a Management Group provided the user has the required RBAC permissions.

Box 3: Yes
Subscriptions can be moved between Management Groups provided the user has the required RBAC permissions.

Reference:
https://docs.microsoft.com/en-us/azure/governance/management-groups/overview
https://docs.microsoft.com/en-us/azure/governance/management-groups/manage#moving-management-groups-and-subscriptions

QUESTION 13
You need to define a custom domain name for Azure AD to support the planned infrastructure.

Which domain name should you use?

Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue

Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

A. ad.humongousinsurance.com
B. humongousinsurance.onmicrosoft.com
C. humongousinsurance.local
D. humongousinsurance.com

Correct Answer: D
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

Every Azure AD directory comes with an initial domain name in the form of domainname.onmicrosoft.com. The initial domain name cannot be changed or deleted, but you can add your corporate domain name to Azure AD as well. For example, your organization probably has other domain names used to do business and users who

sign in using your corporate domain name. Adding custom domain names to Azure AD allows you to assign user names in the directory that are familiar to your users, such as 'alice@contoso.com.' instead of 'alice@domain name.onmicrosoft.com'.

Scenario:
Network Infrastructure: Each office has a local data center that contains all the servers for that office. Each office has a dedicated connection to the Internet. Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com Planned Azure AD Infrastructure: The on-premises Active Directory domain will be synchronized to Azure AD.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/add-custom- domain

QUESTION 14
HOTSPOT

You have a sync group named Sync1 that has a cloud endpoint.
The cloud endpoint includes a file named File1.txt.
You on-premises network contains servers that run Windows Server 2016.

The servers are configured as shown in the following table.

Name	Share	Share contents
Server1	Share1	File1.txt, File2.txt
Server2	Share2	File2.txt, File3.txt

You add Share1 as an endpoint for Sync1.
One hour later, you add Share2 as an endpoint for Sync1.

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
On the cloud endpoint, File1.txt is overwritten by File1.txt from Share1.	○	○
On Server1, File1.txt is overwritten by File1.txt from the cloud endpoint.	○	○
File1.txt Share1 replicates to Share2.	○	○

Correct Answer:

Statements	Yes	No
On the cloud endpoint, File1.txt is overwritten by File1.txt from Share1.	○	○
On Server1, File1.txt is overwritten by File1.txt from the cloud endpoint.	○	○
File1.txt Share1 replicates to Share2.	○	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Yes
If you add an Azure file share that has an existing set of files as a cloud endpoint to a sync group, the existing files are merged with any other files that are already on other endpoints in the sync group.

Box 2: No

Box 3: Yes

Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-planning

QUESTION 15
You need to implement a backup solution for App1 after the application is moved.

What should you create first?

Case Study Title (Case Study):
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database

* A web front end
* A processing middle tier
Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

A. a recovery plan
B. an Azure Backup Server
C. a backup policy
D. a Recovery Services vault

Correct Answer: D
Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

A Recovery Services vault is a logical container that stores the backup data for each protected resource, such as Azure VMs. When the backup job for a protected resource runs, it creates a recovery point inside the Recovery Services vault.

Scenario:
There are three application tiers, each with five virtual machines.
Move all the virtual machines for App1 to Azure.
Ensure that all the virtual machines for App1 are protected by backups.

Reference:
https://docs.microsoft.com/en-us/azure/backup/quick-backup-vm-portal

QUESTION 16

You have an Azure subscription that includes data in following locations:

Name	Type
container1	Blob container
share1	Azure files share
DB1	SQL database
Table1	Azure Table

You plan to export data by using Azure import/export job named Export1.
You need to identify the data that can be exported by using Export1.

Which data should you identify?

A. DB1
B. Table1
C. container1
D. Share1

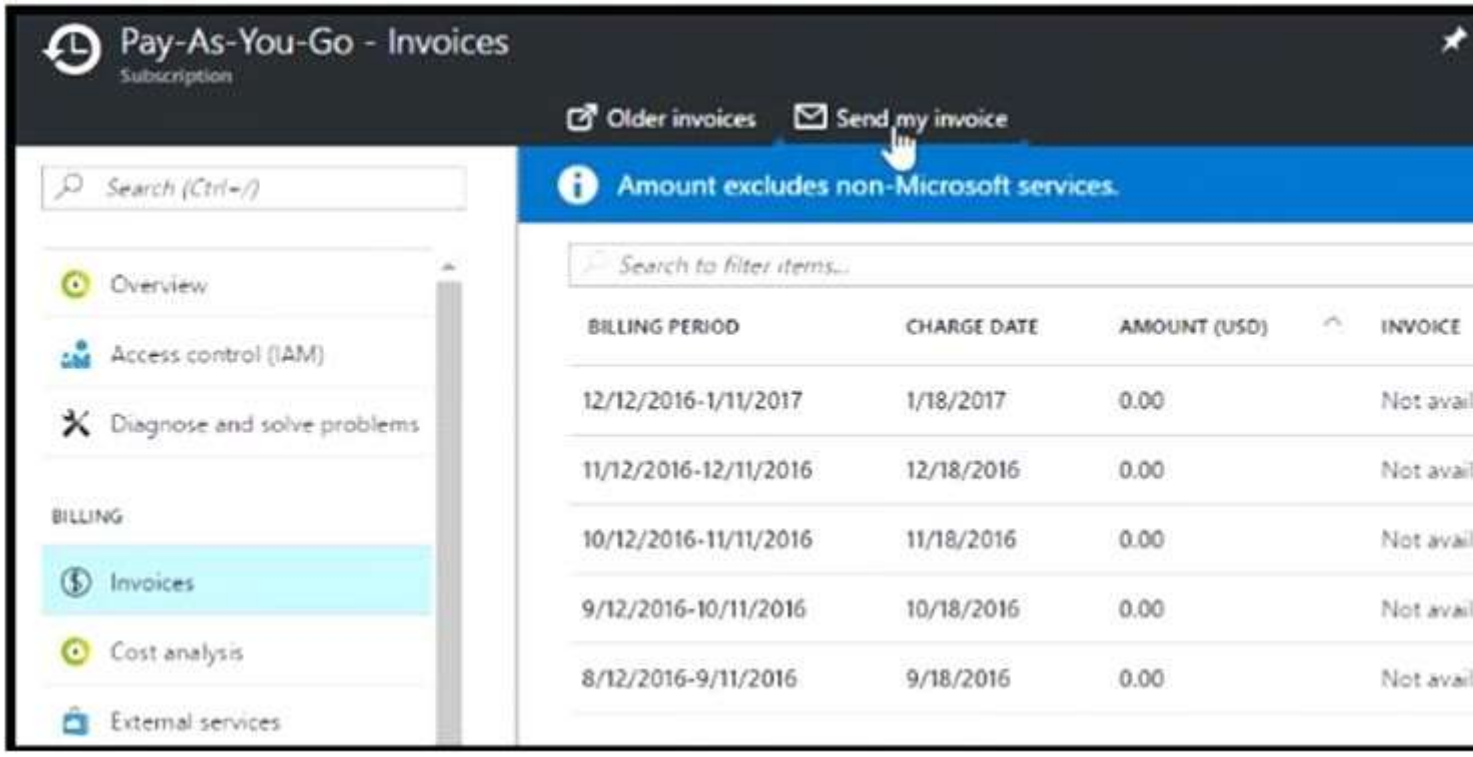
Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service

QUESTION 17
Which blade should you instruct the finance department auditors to use?



Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

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

Correct Answer: D
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

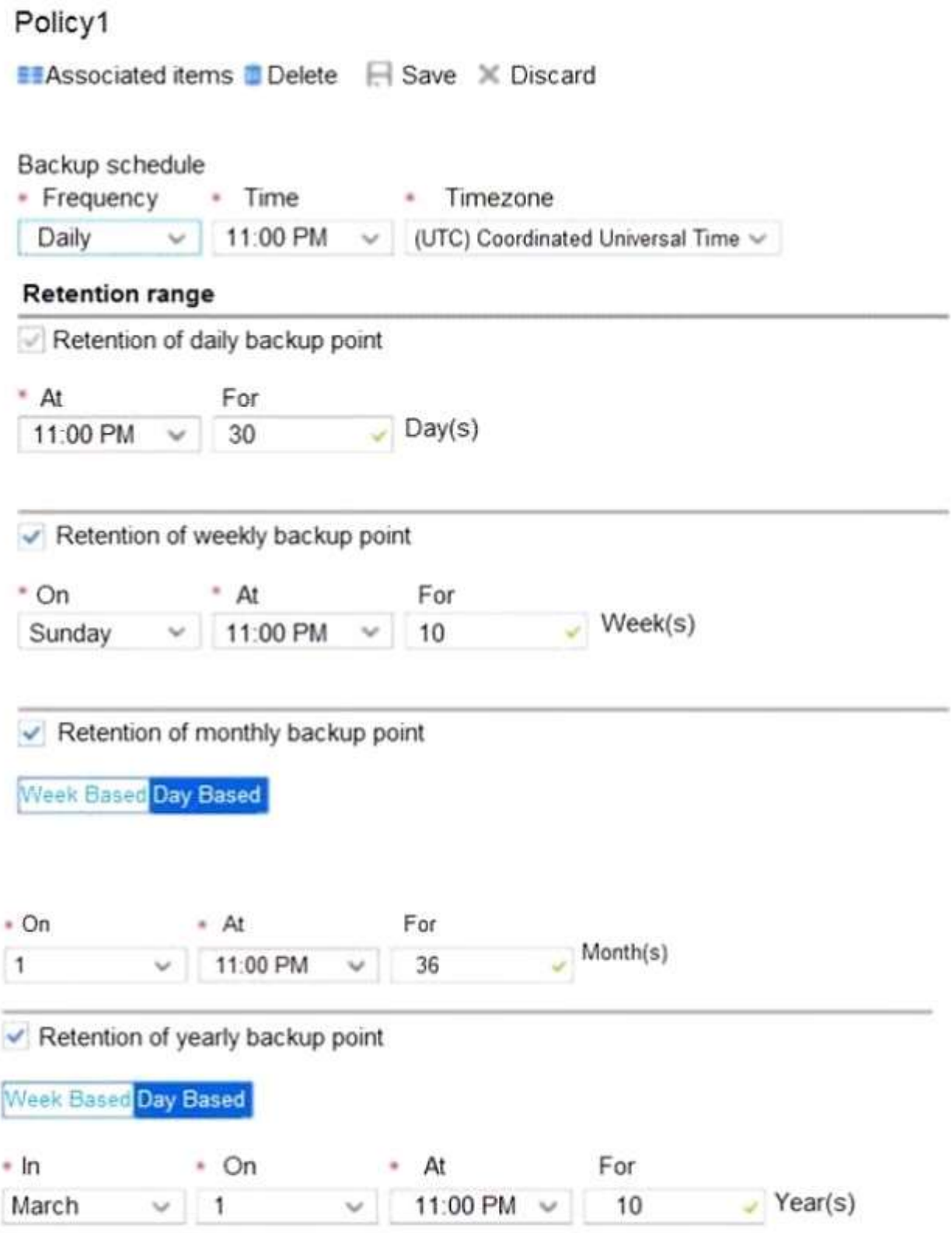
You can opt in and configure additional recipients to receive your Azure invoice in an email. This feature may not be available for certain subscriptions such as support offers, Enterprise Agreements, or Azure in Open. Click Opt in and accept the terms.

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

QUESTION 18
HOTSPOT

You create a Recovery Services vault backup policy named Policy1 as 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.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

The backup that occurs on Sunday, March 1, will be retained for **[answer choice].**

- 30 days
- 10 weeks
- 36 months
- 10 years

The backup that occurs on Sunday, November 1, will be retained for **[answer choice].**

- 30 days
- 10 weeks
- 36 months
- 10 years

Correct Answer:

The backup that occurs on Sunday, March 1, will be retained for **[answer choice].**

- 30 days
- 10 weeks
- 36 months
- **10 years**

The backup that occurs on Sunday, November 1, will be retained for **[answer choice].**

- 30 days
- 10 weeks
- **36 months**
- 10 years

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: 10 years
The yearly backup point occurs to 1 March and its retention period is 10 years.

Box 2: 36 months
The monthly backup point occurs on the 1st of every month and its retention period is 36 months.

Reference:

QUESTION 19
You have an Azure subscription named AZPT1 that contains the resources shown in the following table:

Name	Type
storage1	Azure Storage account
VNET1	Virtual network
VM1	Azure virtual machine
VM1Managed	Managed disk for VM1
RVAULT1	Recovery Services vault for the site recovery of VM1

You create a new Azure subscription named AZPT2.
You need to identify which resources can be moved to AZPT2.

Which resources should you identify?

A. VM1, storage1, VNET1, and VM1Managed only
B. VM1 and VM1Managed only
C. VM1, storage1, VNET1, VM1Managed, and RVAULT1
D. RVAULT1 only

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

You can move a VM and its associated resources to a different subscription by using the Azure portal.
You can now move an Azure Recovery Service (ASR) Vault to either a new resource group within the current subscription or to a new subscription.

Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/move-resource-group-and-subscription
https://docs.microsoft.com/en-us/azure/key-vault/general/keyvault-move-subscription

QUESTION 20
You have an Azure virtual machine named VM1 that runs Windows Server 2019.

You sign in to VM1 as a user named User 1 and perform the following actions:

* Create files on drive C.
* Create files on drive 0.
* Modify the screen saver timeout.
* Change the desktop background.

You plan to redeploy VM1.

Which changes will be lost after you redeploy VM1?

A. the modified screen saver timeout
B. the new desktop background
C. the new files on drive
D. The new files on drive

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 21
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1.
Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution:
On Subscription1, you assign the DevTest Labs User role to the Developers group.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

DevTest Labs User role only lets you connect, start, restart, and shutdown virtual machines in your Azure DevTest Labs.
You would need the Logic App Contributor role.

Reference:
https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles
https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-securing-a-logic-app

QUESTION 22
You have an Azure subscription that contains a policy-based virtual network gateway named GW1 and a virtual network named VNet1.
You need to ensure that you can configure a point-to-site connection from an on-premises computer to VNet1.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Add a service endpoint to VNet1
B. Reset GW1
C. Create a route-based virtual network gateway
D. Add a connection to GW1

E. Delete GW1
F. Add a public IP address space to VNet1

Correct Answer: CE
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

C: A VPN gateway is used when creating a VPN connection to your on-premises network. Route-based VPN devices use any-to-any (wildcard) traffic selectors, and let routing/forwarding tables direct traffic to different IPsec tunnels. It is typically built on router platforms where each IPsec tunnel is modeled as a network interface or VTI (virtual tunnel interface).

E: Policy-based VPN devices use the combinations of prefixes from both networks to define how traffic is encrypted/decrypted through IPsec tunnels. It is typically built on firewall devices that perform packet filtering. IPsec tunnel encryption and decryption are added to the packet filtering and processing engine.

Reference:
https://docs.microsoft.com/en-us/azure/vpn-gateway/create-routebased-vpn-gateway-portal
https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-connect-multiple-policybased-rm-ps

QUESTION 23
HOTSPOT

You have an Azure virtual machine named VM1 and a Recovery Services vault named Vault1.

You create a backup Policy1 as shown in the exhibit. (Click the Exhibit tab.)

Policy1

Associated items | Delete | Save | Discard

Backup schedule

* Frequency	* Time	* Timezone
Daily	2:00 AM	(UTC) Coordinated Universal Time

Retention range

Retention of daily backup point.

* At	For	
2:00 AM	5	Day(s)

Retention of weekly backup point.

* On	* At	For	
Sunday	2:00 AM	20	Week(s)

Retention of monthly backup point.

Week Based | Day Based

* On	* At	For	
2	2:00 AM	24	Month(s)

Retention of yearly backup point.

Week Based | Day Based

* In	* On	* At	For	
January	9	2:00 AM	5	Year(s)

You configure the backup of VM1 to use Policy1 on Thursday, January 1.
You need to identify the number of available recovery points for VM1.

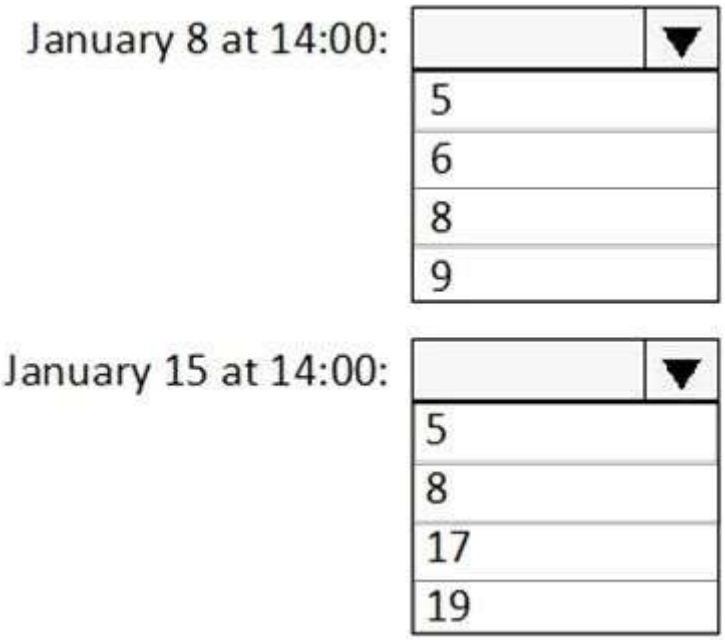
How many recovery points are available on January 8 and on January 15?

To answer, select the appropriate options in the answer area.

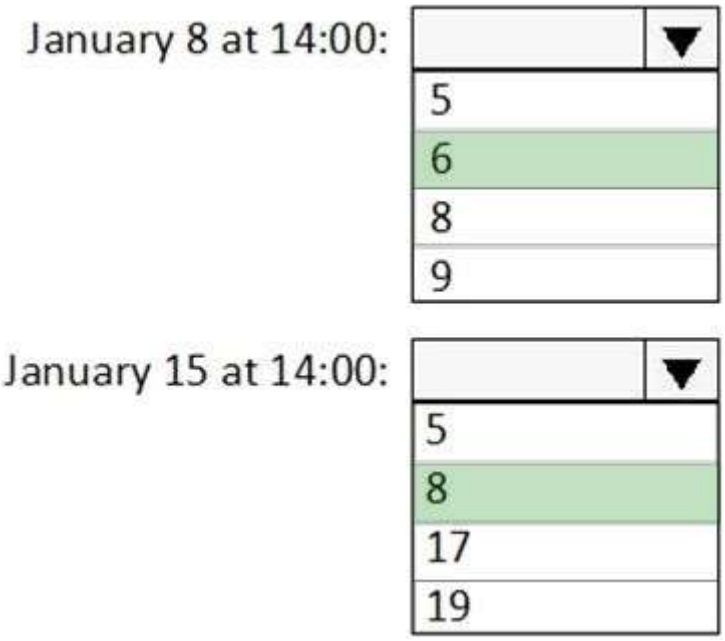
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: 6
4 daily + 1 weekly + monthly

Box 2: 8
4 daily + 2 weekly + monthly + yearly

Reference:

QUESTION 24
You have five Azure virtual machines that run Windows Server 2016.

The virtual machines are configured as web servers.
You have an Azure load balancer named LB1 that provides load balancing services for the virtual machines.

You need to ensure that visitors are serviced by the same web server for each request.

What should you configure?

A. Floating IP (direct server return) to Enabled
B. Idle Time-out (minutes) to 20
C. Protocol to UDP
D. Session persistence to Client IP and Protocol

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://cloudopszone.com/configure-azure-load-balancer-for-sticky-sessions/

QUESTION 25
You have an Azure Active Directory (Azure AD) tenant named contoso.com that is synced to an Active Directory domain.

The tenant contains the users shown in the following table.

Name	Type	Source
User1	Member	Azure AD
User2	Member	Windows Server Active Directory
User3	Guest	Microsoft account
User4	Member	Windows Server Active Directory

The users have the attribute shown in the following table

Name	Office phone	Mobile phone
User1	222-555-1234	222-555-2345
User2	null	null
User3	222-555-1234	222-555-2346
User4	222-555-1234	null

You need to ensure that you can enable Azure Multi-Factor Authentication (MFA) for all four users.

Solution:
You add a mobile phone number for User2 and User4.

Does this meet the Goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

User3 requires a user account in Azure AD.
Note: Your Azure AD password is considered an authentication method. It is the one method that cannot be disabled.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication- methods

QUESTION 26
You have an Azure subscription named Subscription 1 and an on-premises deployment of Microsoft System Center Service Manager Subscription! contains a virtual machine named VM1.

You need to ensure that an alert is set in Service Manager when the amount of available memory on VM1 is below 10 percent.

What should you do first?

A. Create a notification.
B. Create an automation runbook.
C. Deploy the IT Service Management Connector (ITSM).
D. Deploy a function app.

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The IT Service Management Connector (ITSMC) allows you to connect Azure and a supported IT Service Management (ITSM) product/service, such as the Microsoft System Center Service Manager.
With ITSMC, you can create work items in ITSM tool, based on your Azure alerts (metric alerts, Activity Log alerts and Log Analytics alerts).

Reference:

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/itsmc-overview

QUESTION 27
You have an on-premises server that contains a folder named D:\Folder1.

You need to copy the contents of D:\Folder1 to the public container in an Azure Storage account named contoso data.

Which command should you run?

A. https://contosodata.blob.core.windows.net/public
B. azcopy sync D:\folder1 https://contosodata.blob.core.windows.net/public --snapshot
C. azcopy copy D:\folder1 https://contosodata.blob.core.windows.net/public --recursive
D. az storage blob copy start-batch D:\Folder1 https:// contosodata.blob.core.windows.net/public

Correct Answer:
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The azcopy copy command copies a directory (and all of the files in that directory) to a blob container. The result is a directory in the container by the same name.

Incorrect Answers:

B: The azcopy sync command replicates the source location to the destination location. However, the file is skipped if the last modified time in the destination is more recent.
D: The az storage blob copy start-batch command copies multiple blobs to a blob container.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-blobs
https://docs.microsoft.com/en-us/azure/storage/common/storage-ref-azcopy-copy

QUESTION 28
You have an Azure subscription that contains the resources shown in the following table.

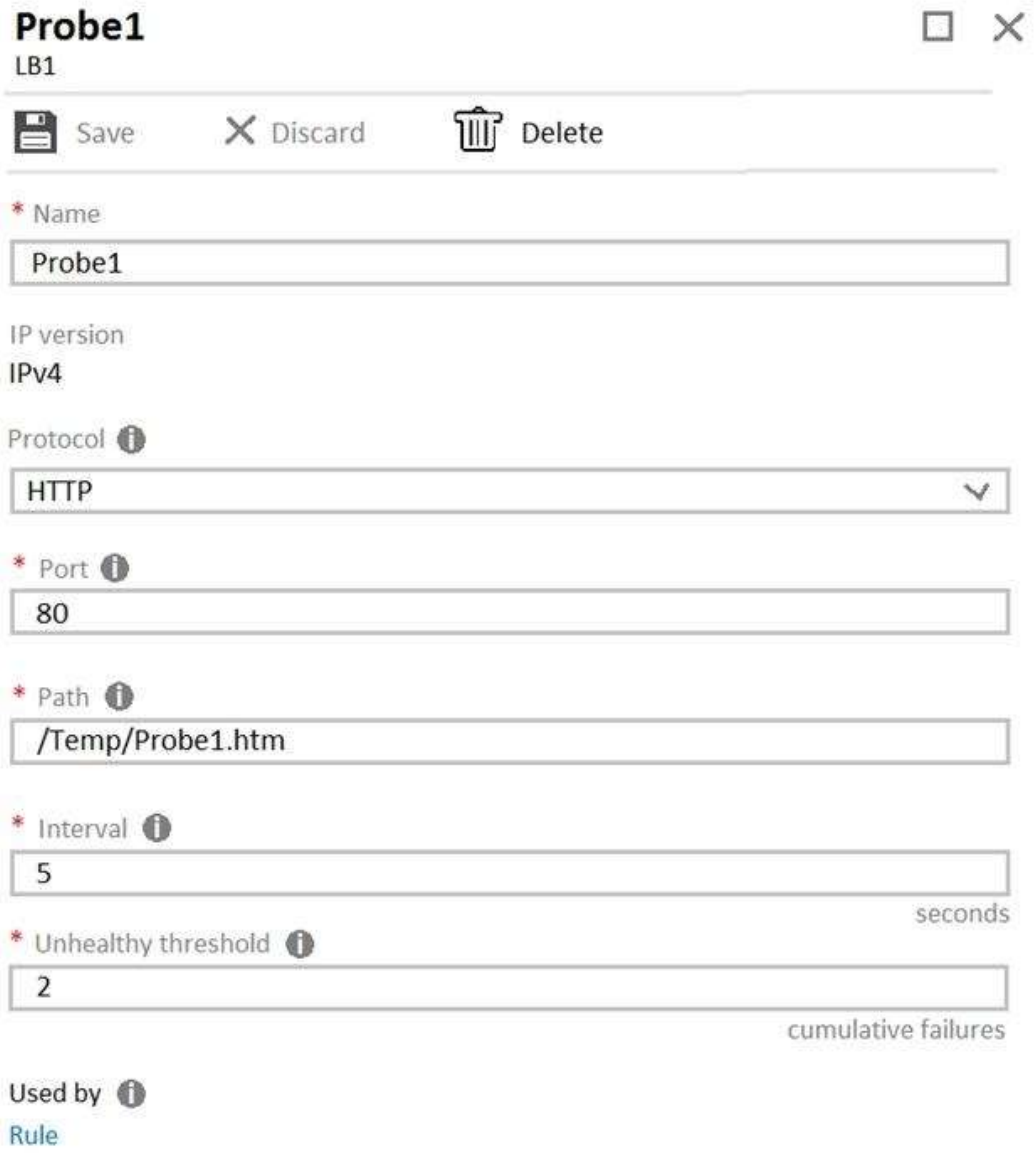
Name	Type
LB1	Load balancer
VM1	Virtual machine
VM2	Virtual machine

VM1 and VM2 run a website that is configured as shown in the following table.

Name	Physical path	Alias
Root folder	C:\inetpub\wwwroot\SiteA	/
Temp	C:\inetpub\wwwroot\Temp	Temp

LB1 is configured to balance requests to VM1 and VM2.

You configure a health probe as shown in the exhibit. (Click the Exhibit tab.)



You need to ensure that the health probe functions correctly.

What should you do?

A. On LB1, change the Unhealthy threshold to 65536.
B. On LB1, change the port to 8080.
C. On VM1 and VM2, create a file named Probe1.htm in the C:\intepub\wwwroot\Temp folder.
D. On VM1 and VM2, create a file named Probe1.htm in the C:\intepub\wwwroot\SiteA\Temp folder.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/load-balancer/tutorial-load-balancer-standard-internal- portal

QUESTION 29
HOTSPOT

You plan to deploy five virtual machines to a virtual network subnet.
Each virtual machine will have a public IP address and a private IP address.
Each virtual machine requires the same inbound and outbound security rules.

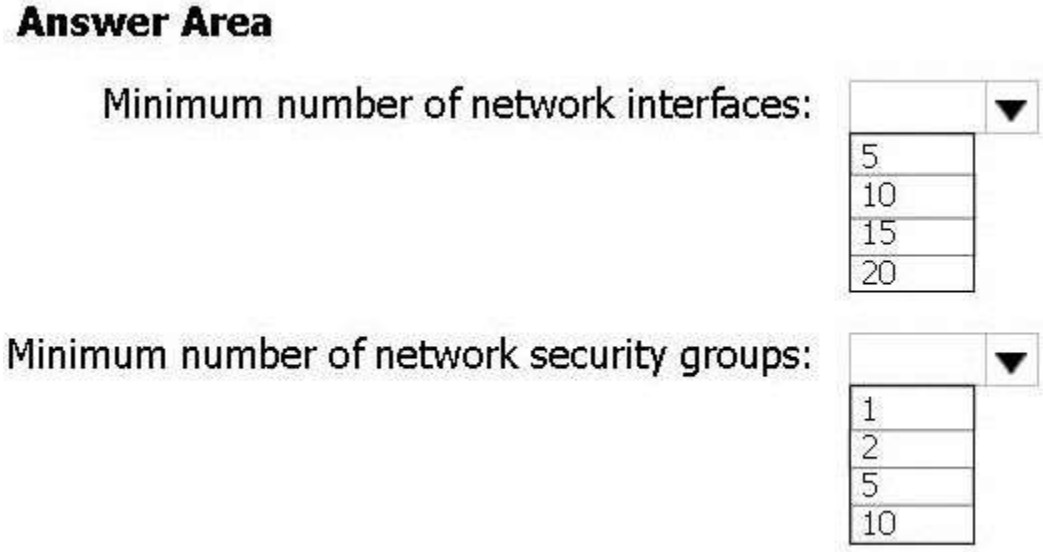
What is the minimum number of network interfaces and network security groups that you require?

To answer, select the appropriate options in the answer area.

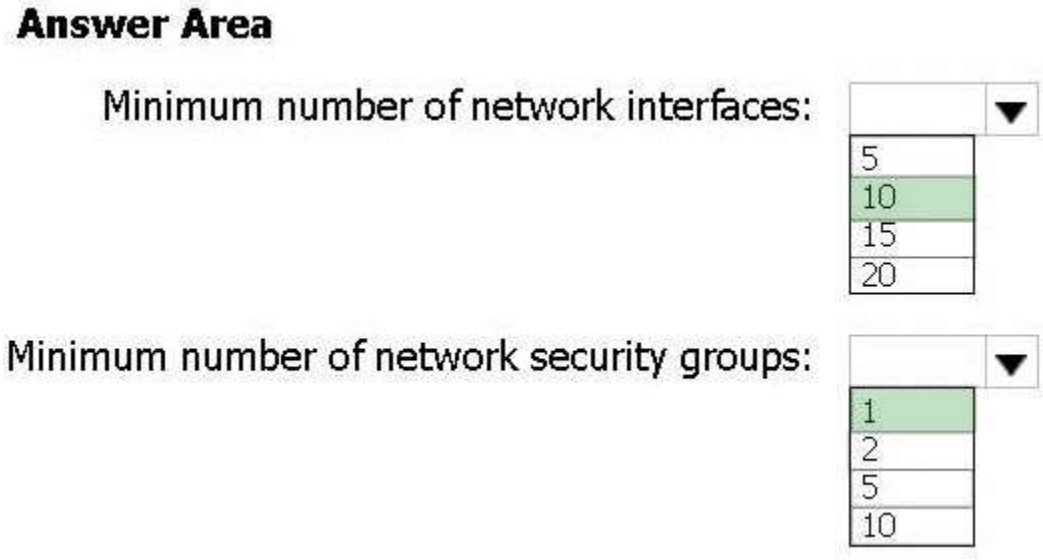
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot

Explanation

Explanation/Reference:
Explanation:

Box 1: 10
One public and one private network interface for each of the five VMs.

Box 2: 1
You can associate zero, or one, network security group to each virtual network subnet and network interface in a virtual machine. The same network security group can be associated to as many subnets and network interfaces as you choose.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/security-overview

QUESTION 30
You have an Azure subscription named Subscription1 that is used be several departments at your company.

Subscription1 contains the resources in the following table:

Name	Type
Storage1	Storage account
RG1	Resource group
Container1	Blob container
Share1	File share

Another administrator deploys a virtual machine named VM1 and an Azure Storage account named Storage2 by using a single Azure Resource Manager template.

You need to view the template used for the deployment.

From which blade can you view the template that was used for the deployment?

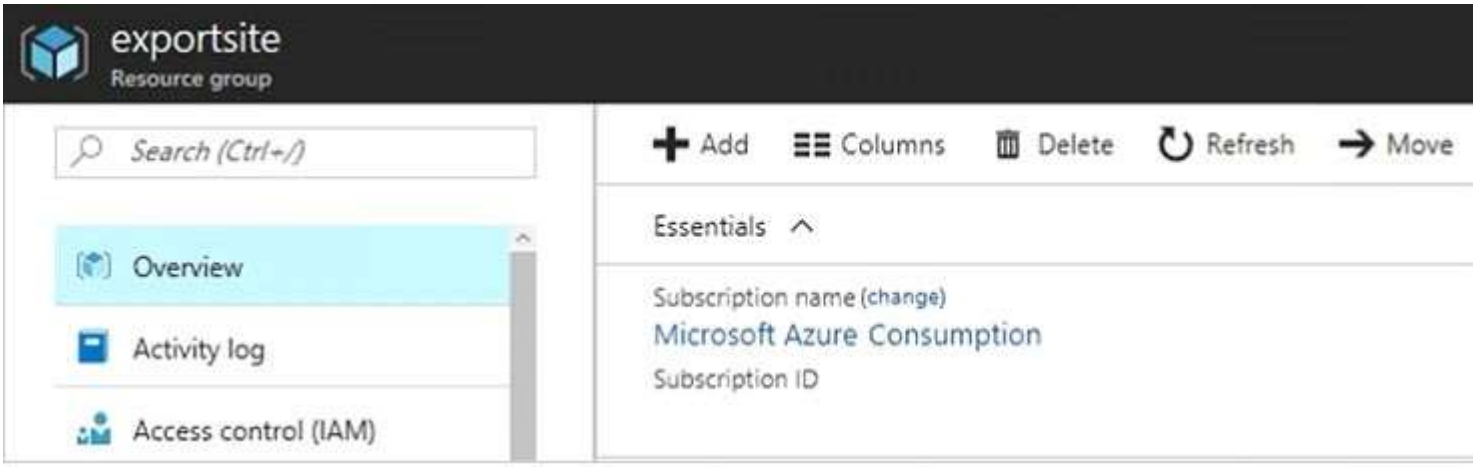
A. RG1
B. VM1
C. Storage1
D. Container1

Correct Answer: A
Section: Single Select
Explanation

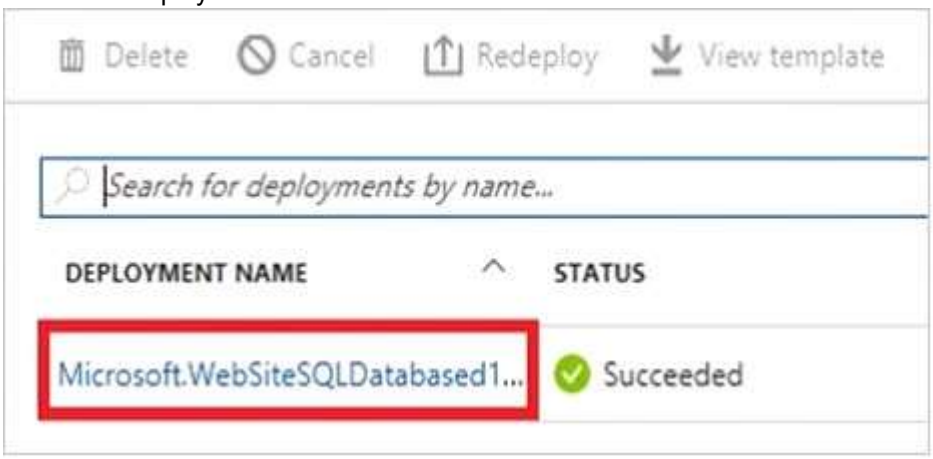
Explanation/Reference:
Explanation:

1. View template from deployment history

Go to the resource group for your new resource group. Notice that the portal shows the result of the last deployment. Select this link.



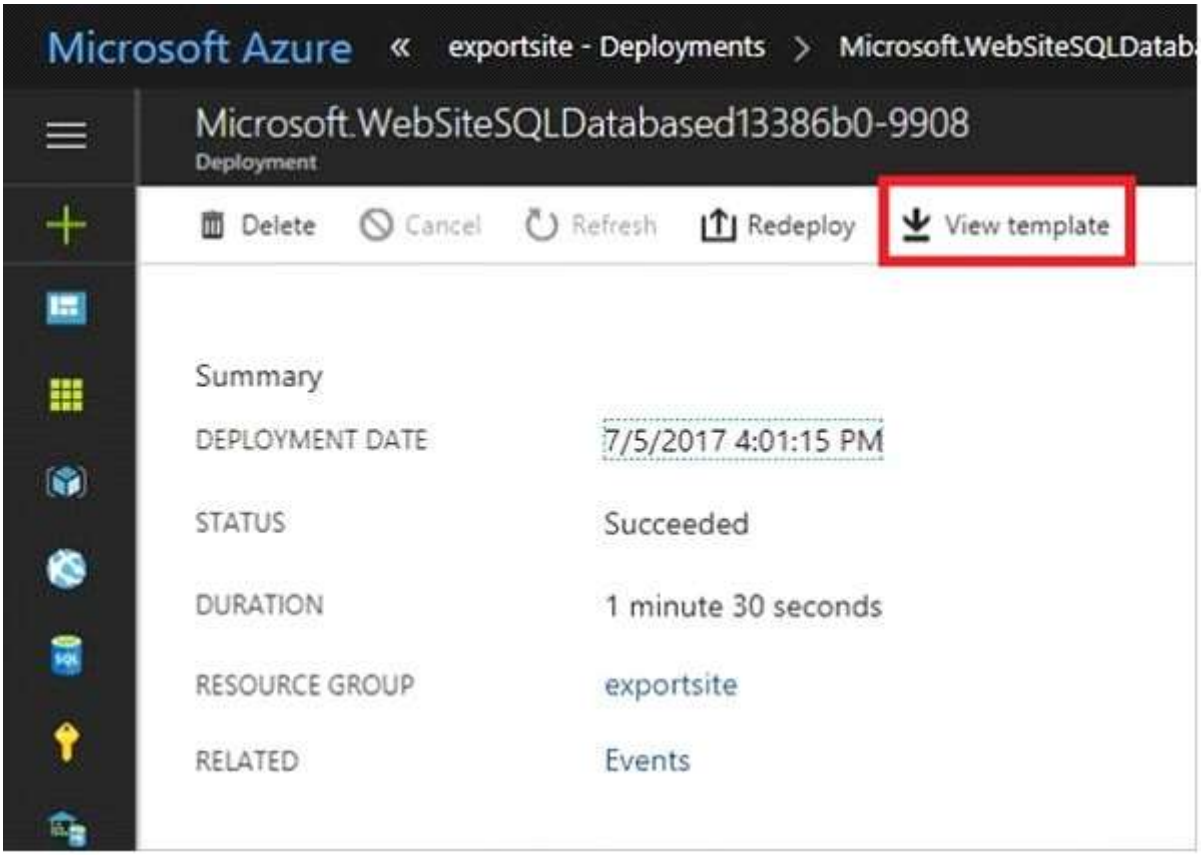
2. You see a history of deployments for the group. In your case, the portal probably lists only one deployment. Select this deployment.



The portal displays a summary of the deployment.

The summary includes the status of the deployment and its operations and the values that you provided for parameters.

To see the template that you used for the deployment, select View template.



Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-export-template

QUESTION 31
HOTSPOT

You have an Azure subscription named Subscription1.
Subscription1 contains a virtual machine named VM1.
You install and configure a web server and a DNS server on VM1.

VM1 has the effective network security rules shown in the following exhibit.

Network Interface: vm1900 Effective security rules Topology

Virtual network/subnet: VMRG-vnet/default Public IP: 104.40.215.211 Private IP: **10.0.0.5** Accelerat networking: **Disabled**

INBOUND PORT RULES

Network security group VM1-nsg (attached to network interface: vm1900) Impacts 0 subnets, 1 network interfaces

Add inbound port rule

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
900	Rule2	50-60	Any	Any	Any	Deny
1000	default-allow-rdp	3389	TCP	Any	Any	Allow
1010	Rule1	50-500	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNet...	VirtualNet...	Allow
65001	AllowAzureLoadBalan...	Any	Any	AzureLoad...	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

OUTBOUND PORT RULES

Network security group VM1-nsg (attached to network interface: vm1900) Impacts 0 subnets, 1 network interfaces

Add outbound port

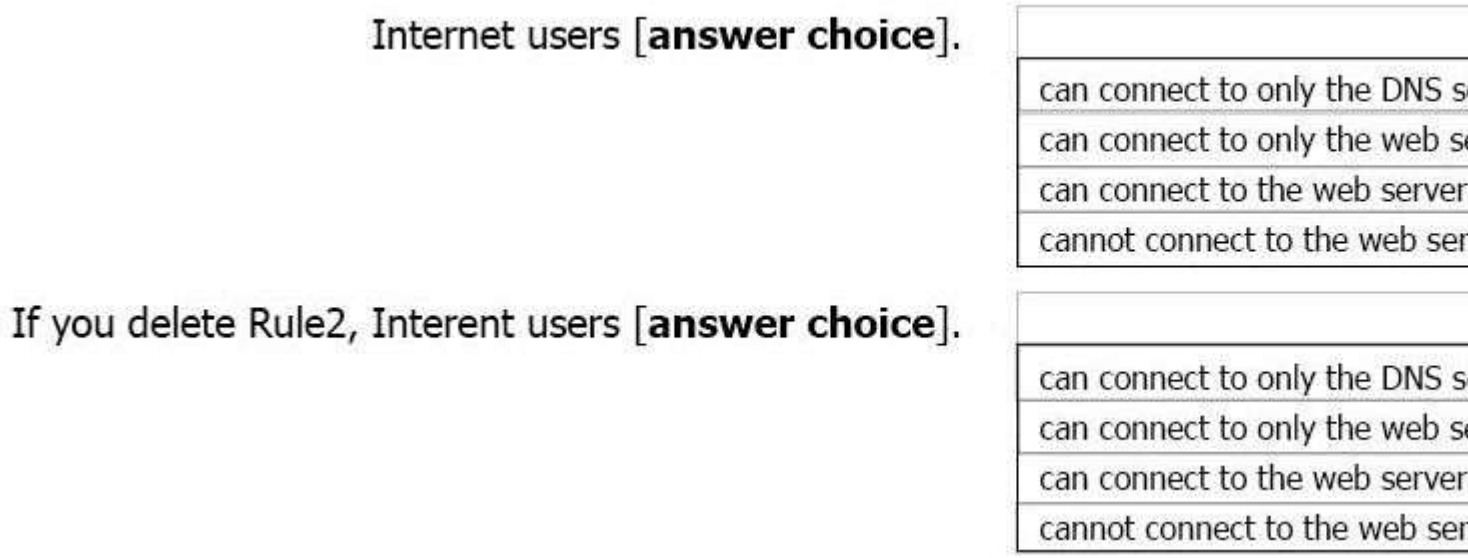
PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
1000	Rule3	80	Any	Any	Any	Deny
65000	AllowVnetOutBound	Any	Any	VirtualNet...	VirtualNet...	Allow
65001	AllowInternetOutBou...	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

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

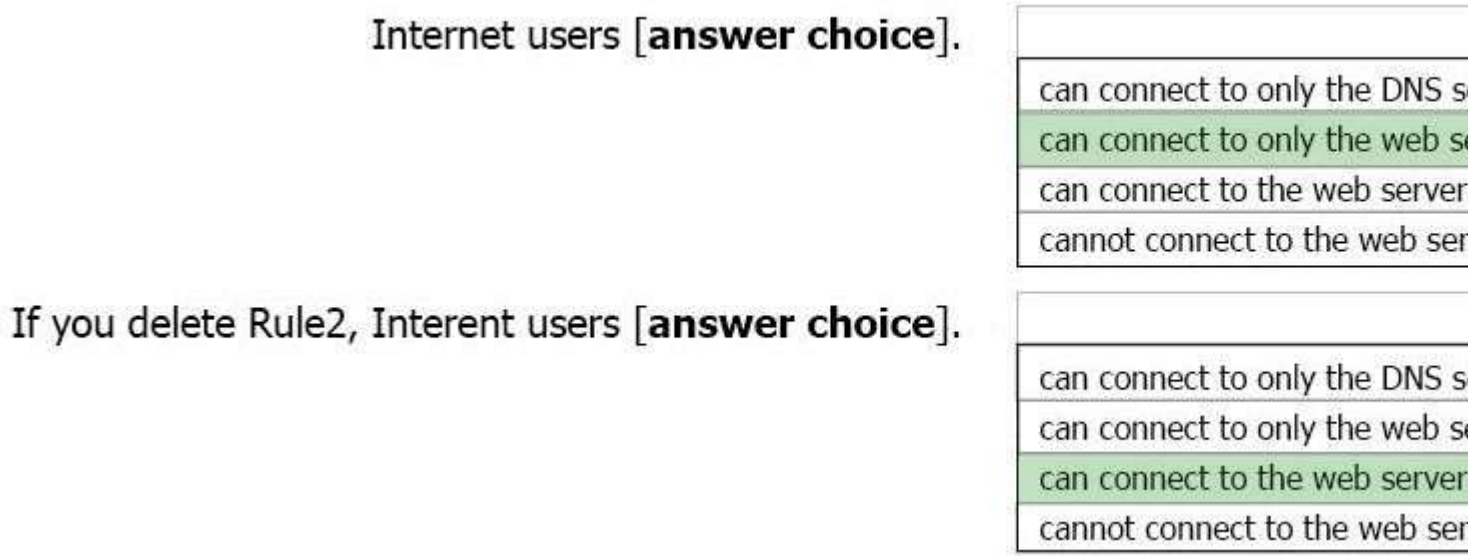
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explaination:

Reference:

QUESTION 32
You need to recommend an identify solution that meets the technical requirements.

What should you recommend?

Case Study Title (Case Study):
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier
Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

A. Federated single-on (SSO) and Active Directory Federation Services (AD FS)
B. Password hash synchronization and single sign-on (SSO)
C. Cloud-only user accounts
D. Cloud-only user accounts

Correct Answer: A
Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

Active Directory Federation Services is a feature and web service in the Windows Server Operating System that allows sharing of identity information outside a company's network.

Scenario:
Technical Requirements include:
Prevent user passwords or hashes of passwords from being stored in Azure.

Reference:
https://www.sherweb.com/blog/active-directory-federation-services/

QUESTION 33
You have an Azure Active Directory (Azure AD) tenant named contoso.onmicrosoft.com that contains 100 user accounts.
You purchase 10 Azure AD Premium P2 licenses for the tenant.

You need to ensure that 10 users can use all the Azure AD Premium features.

What should you do?

A. From the Groups blade of each user, invite the users to a group.
B. From the Licenses blade of Azure AD, assign a license.
C. From the Directory role blade of each user, modify the directory role.
D. From the Azure AD domain, add an enterprise application.

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

To assign a license, under Azure Active Directory > Licenses > All Products, select one or more products, and then select Assign on the command bar.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/license-users-groups

QUESTION 34
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains 10 virtual networks.
The virtual networks are hosted in separate resource groups.
Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution:

You configure a custom policy definition, and then you assign the policy to the subscription.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Resource policy definition used by Azure Policy enables you to establish conventions for resources in your organization by describing when the policy is enforced and what effect to take.
By defining conventions, you can control costs and more easily manage your resources.

Reference:
https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

QUESTION 35
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1.
Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution:
From the Subscriptions blade, you select the subscription, and then click Programmatic deployment.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

From the RG1 blade, click Deployments. You see a history of deployment for the resource group.

Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-tutorial-create-first-template?tabs=azure-powershell

QUESTION 36
HOTSPOT

You have Azure subscriptions named Subscription1 and Subscription2.

Subscription1 has following resource groups:

Name	Region	Lock type
RG1	West Europe	None
RG2	West Europe	Read Only

RG1 includes a web app named App1 in the West Europe location.

Subscription2 contains the following resource groups:

Name	Region	Lock type
RG3	East Europe	Delete
RG4	Central US	none

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
App1 can be moved to RG2	○	○
App1 can be moved to RG3	○	○
App1 can be moved to RG4	○	○

Correct Answer:

Statements	Yes	No
App1 can be moved to RG2	○	○
App1 can be moved to RG3	○	○
App1 can be moved to RG4	○	○

Section: Hotspot

Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/move-limitations/app-service-move-limitations

Exam E

QUESTION 1
Topic 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.

All the resources used by Litware are hosted on-premises. 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.

Existing Environment

The network contains an Active Directory forest named Litware.com. All domain controllers are configured as DNS servers and host the Litware.com DNS zone.
Litware has finance, human resources, sales, research, and information technology departments.
Each department has an organizational unit (OU) that contains all the accounts of that respective department.
All the user accounts have the department attribute set to their respective department.
New users are added frequently.
Litware.com contains a user named User1.
All the offices connect by using private links.
Litware has data centers in the Montreal and Seattle offices.
Each data center has a firewall that can be configured as a VPN device.
All infrastructure servers are virtualized.

The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

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
VM4	Virtual machine

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.

HOTSPOT

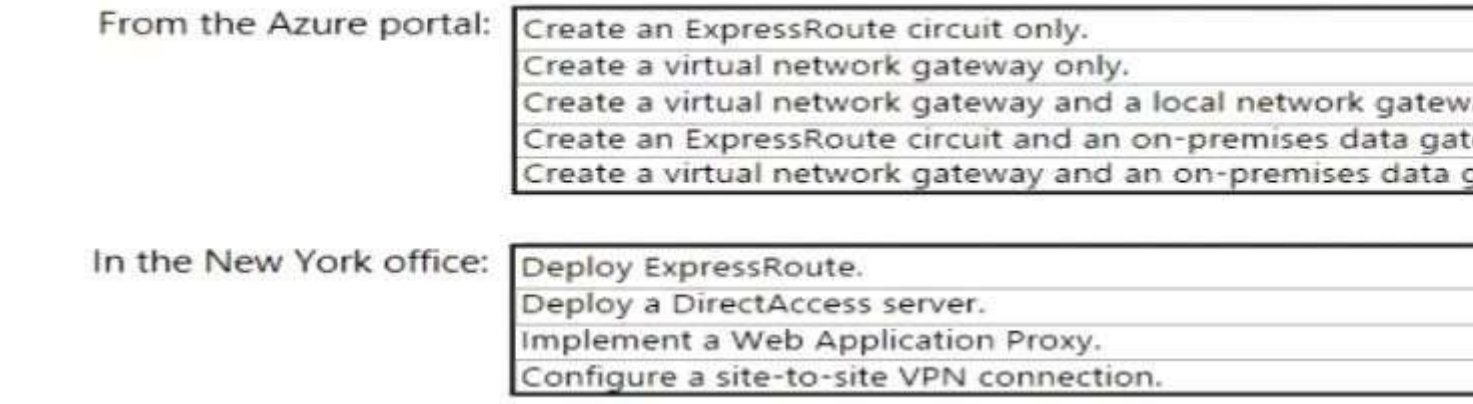
Q. You need to meet the connection requirements for the New York office.

What should you do?

To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area



Correct Answer:

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 gatew Create an ExpressRoute circuit and an on-premises data gat Create a virtual network gateway and an on-premises data g
In the New York office:	Deploy ExpressRoute. Deploy a DirectAccess server. Implement a Web Application Proxy. Configure a site-to-site VPN connection.

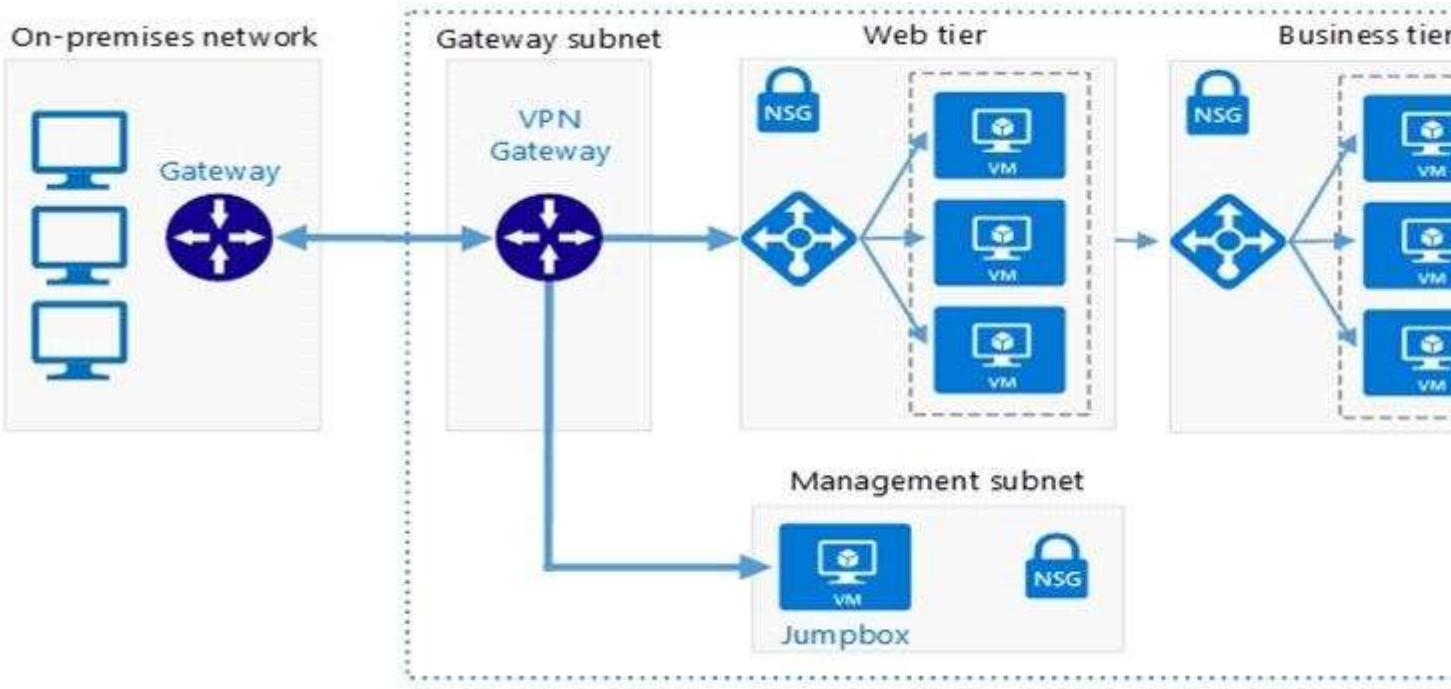
Section: Topic 1 - Litware Inc.
Explanation

Explanation/Reference:
Explanation:

Box 1: Create 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 networ 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

QUESTION 2
You have an azure subscription that contain a virtual named VNet1. VNet1. contains four subnets named Gatesway, perimeter, NVA, and production.
The NVA contain two network virtual appliance (NVAs) that will network traffic inspection between the perimeter subnet and the production subnet.

You need to implement an Azure load balancer for the NVAs. The solution must meet the following requirements:

* The NVAs must run in an active-active configuration that uses automatic failover.
* The NVA must load balance traffic to two services on the Production subnet. The services have different IP addresses Which three actions should you perform? Each correct answer presents parts of the solution.

NOTE: Each correct selection is worth one point.

A. Add two load balancing rules that have HA Ports enabled and Floating IP disabled.
B. Deploy a standard load balancer.
C. Add a frontend IP configuration, two backend pools, and a health prob.
D. Add a frontend IP configuration, a backend pool, and a health probe.
E. Add two load balancing rules that have HA Ports and Floating IP enabled.
F. Deploy a basic load balancer.

Correct Answer: BCE
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

A standard load balancer is required for the HA ports. -Two backend pools are needed as there are two services with different IP addresses. -Floating IP rule is used where backend ports are reused.

Incorrect Answers:
F: HA Ports are not available for the basic load balancer.

Reference:
https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-overview
https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-multivip-overview

QUESTION 3
You have an Azure subscription that contains the following users in an Azure Active Directory tenant named contoso.onmicrosoft.com:

Name	Role	Scope
User1	Global administrator	Azure Active Directory
User2	Global administrator	Azure Active Directory
User3	User administrator	Azure Active Directory
User4	Owner	Azure Subscription

User1 creates a new Azure Active Directory tenant named external.contoso.onmicrosoft.com.

You need to create new user accounts in external.contoso.com.onmicrosoft.com.

Solution:
You instruct User2 to create the user accounts.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Only a global administrator can add users to this tenant.

Reference:
https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/add-users-to-azure-ad

QUESTION 4
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one

correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1.
The point-to-site connection uses a self-signed certificate.
From Azure, you download and install the VPN client configuration package on a computer named Computer2.

You need to ensure that you can establish a point-to-site VPN connection to VNet1 from Computer2.

Solution:
You export the client certificate from Computer1 and install the certificate on Computer2.

Does this meet this goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Each client computer that connects to a VNet using Point-to-Site must have a client certificate installed. You generate a client certificate from the self-signed root certificate, and then export and install the client certificate. If the client certificate is not installed, authentication fails.

Reference:
https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-certificates-point-to-site

QUESTION 5
You have an Azure subscription that contains the following users in an Azure Active Directory tenant named contoso.onmicrosoft.com:

Name	Role	Scope
User1	Global administrator	Azure Active Directory
User2	Global administrator	Azure Active Directory
User3	User administrator	Azure Active Directory
User4	Owner	Azure Subscription

User1 creates a new Azure Active Directory tenant named external.contoso.onmicrosoft.com.

You need to create new user accounts in external.contoso.com.onmicrosoft.com.

Solution:
You instruct User3 to create the user accounts.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Only a global administrator can add users to this tenant.

Reference:
https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/add-users-to-azure-ad

QUESTION 6
HOTSPOT

You have an Azure Active Directory tenant named Contoso.com that includes following users:

Name	Role
User1	Cloud device administrator
User2	User administrator

Contoso.com includes following Windows 10 devices:

Name	Join type
Device1	Azure AD registered
Device2	Azure AD joined

You create following security groups in Contoso.com:

Name	Join type	Owner
Group1	Assigned	User1
Group2	Dynamic Device	User2

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
User1 can add Device2 to Group1	○	○
User2 can add Device1 to Group1	○	○
User2 can add Device2 to Group2	○	○

Correct Answer:

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Yes
User1 is a Cloud Device Administrator.
Device2 is Azure AD joined.
Group1 has the assigned to join type. User1 is the owner of Group1.
Note: Assigned groups - Manually add users or devices into a static group. Azure AD joined or hybrid Azure AD joined devices utilize an organizational account in Azure AD Box

Box 2: No
User2 is a User Administrator.
Device1 is Azure AD registered.
Group1 has the assigned join type, and the owner is User1.
Note: Azure AD registered devices utilize an account managed by the end user, this account is either a Microsoft account or another locally managed credential.

Box 3: Yes
User2 is a User Administrator.
Device2 is Azure AD joined.
Group2 has the Dynamic Device join type, and the owner is User2.

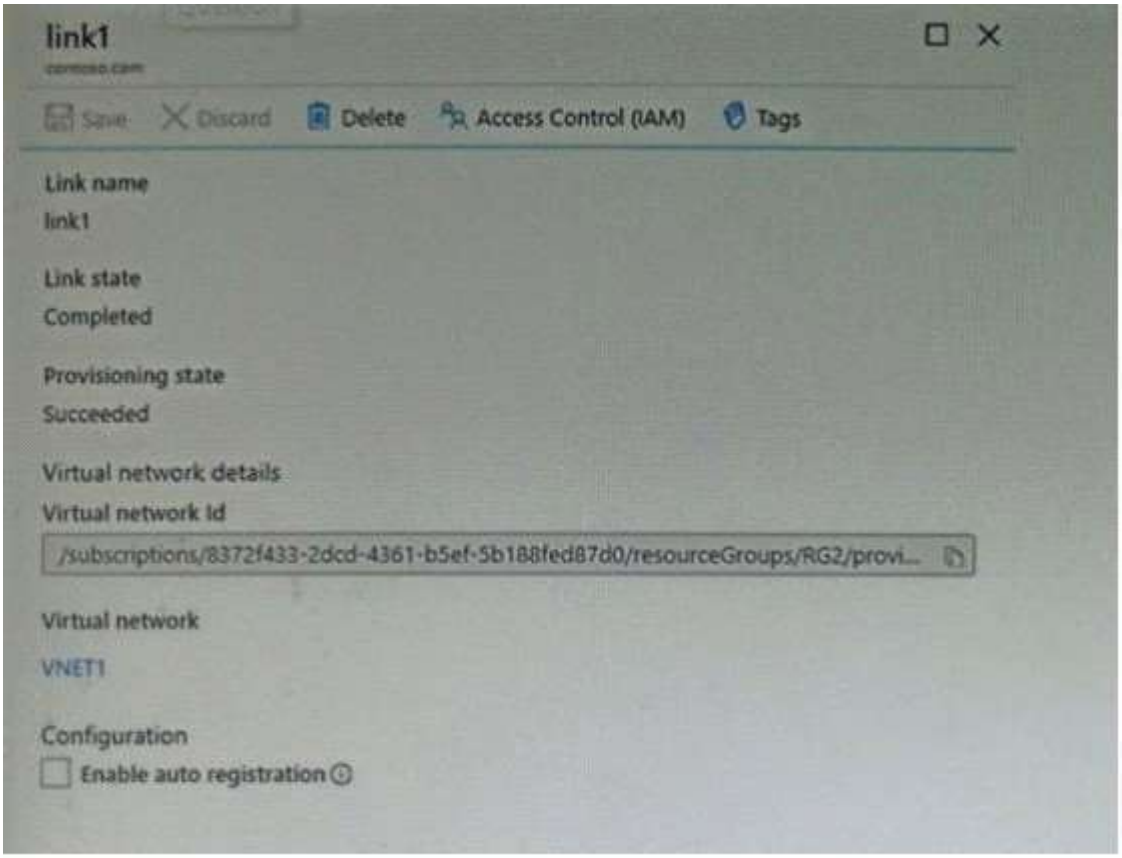
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/devices/overview

QUESTION 7
You have Azure virtual machines that run Windows Server 2019 and are configured as shown in the following table.

Name	Virtual network name	DNS suffix configured in Windows Server
VM1	VNET1	Contoso.com
VM2	VNET2	Contoso.com

You create a public Azure DNS zone named adatum.com and a private Azure DNS zone named contoso.com.

For contoso.com, you create a virtual network link named link1 as shown in the exhibit. (Click the Exhibit tab.)



You discover that VM1 can resolve names in contoso.com but cannot resolve names in adatum.com. VM1 can resolve other hosts on the internet.

You need to ensure that VM1 can resolve host names in adatum.com.

What should you do?

A. Update the DNS suffix on VM1 to be adatum.com.
B. Create an SRV record in the contoso.com zone.
C. Configure the name servers for adatum.com at the domain registrar.
D. Modify the Access control (IAM) settings for link1.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 8
You have an Azure Active Directory (Azure AD) tenant named adatum.com that contains the users shown in the following table.

Name	Role
User1	*None*
User2	Global administrator
User3	Cloud device administrator
User4	Intune administrator

Adatum.com has the following configurations:
Users may join devices to Azure AD is set to User1.
Additional local administrators on Azure AD joined devices is set to None.
You deploy Windows 10 to a computer named Computer. User1 joins Computer1 to adatum.com.

You need to identify which users are added to the local Administrators group on Computer1.

A. User1 only
B. User1, User2, and User3 only
C. User1 and User2 only
D. User1, User2, User3, and User4
E. User2 only

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Users may join devices to Azure AD - This setting enables you to select the users who can register their devices as Azure AD joined devices. The default is All. Additional local administrators on Azure AD joined devices - You can select the users that are granted local administrator rights on a device. Users added here are added to the Device Administrators role in Azure AD. Global administrators, here User2, in Azure AD and device owners are granted local administrator rights by default.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/devices/device-management-azure-portal

QUESTION 9
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.

Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some

of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

HOTSPOT

Q. You are evaluating the connectivity between the virtual machines after the planned implementation of the Azure networking infrastructure.

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

Hot Area

Hot Area:

Statements	Yes	No
The virtual machines on Subnet1 will be able to connect to the virtual machines on Subnet3.	○	○
The virtual machines on ClientSubnet will be able to connect to the Internet.	○	○
The virtual machines on Subnet3 and Subnet4 will be able to connect to the Internet.	○	○

Correct Answer:

Statements	Yes	No
The virtual machines on Subnet1 will be able to connect to the virtual machines on Subnet3.	○	○
The virtual machines on ClientSubnet will be able to connect to the Internet.	○	○
The virtual machines on Subnet3 and Subnet4 will be able to connect to the Internet.	○	○

Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 10
You plan to deploy three Azure virtual machines named VM1, VM2, and VM3.

The virtual machines will host a web app named App1.
You need to ensure that at least two virtual machines are available if a single Azure datacenter becomes unavailable.

What should you deploy?

A. all three virtual machines in a single Availability Zone
B. all virtual machines in a single Availability Set
C. each virtual machine in a separate Availability Zone
D. each virtual machine in a separate Availability Set

Correct Answer: B

Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Availability sets are a datacenter configuration to provide VM redundancy and availability.
This configuration within a datacenter ensures that during either a planned or unplanned maintenance event, at least one virtual machine is available.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-sets

QUESTION 11
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution:
From the RG1 blade, you click Deployments.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

From the RG1 blade, click Deployments. You see a history of deployment for the resource group.

Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-tutorial-create-first-template?tabs=azure-powershell

QUESTION 12
DRAG & DROP

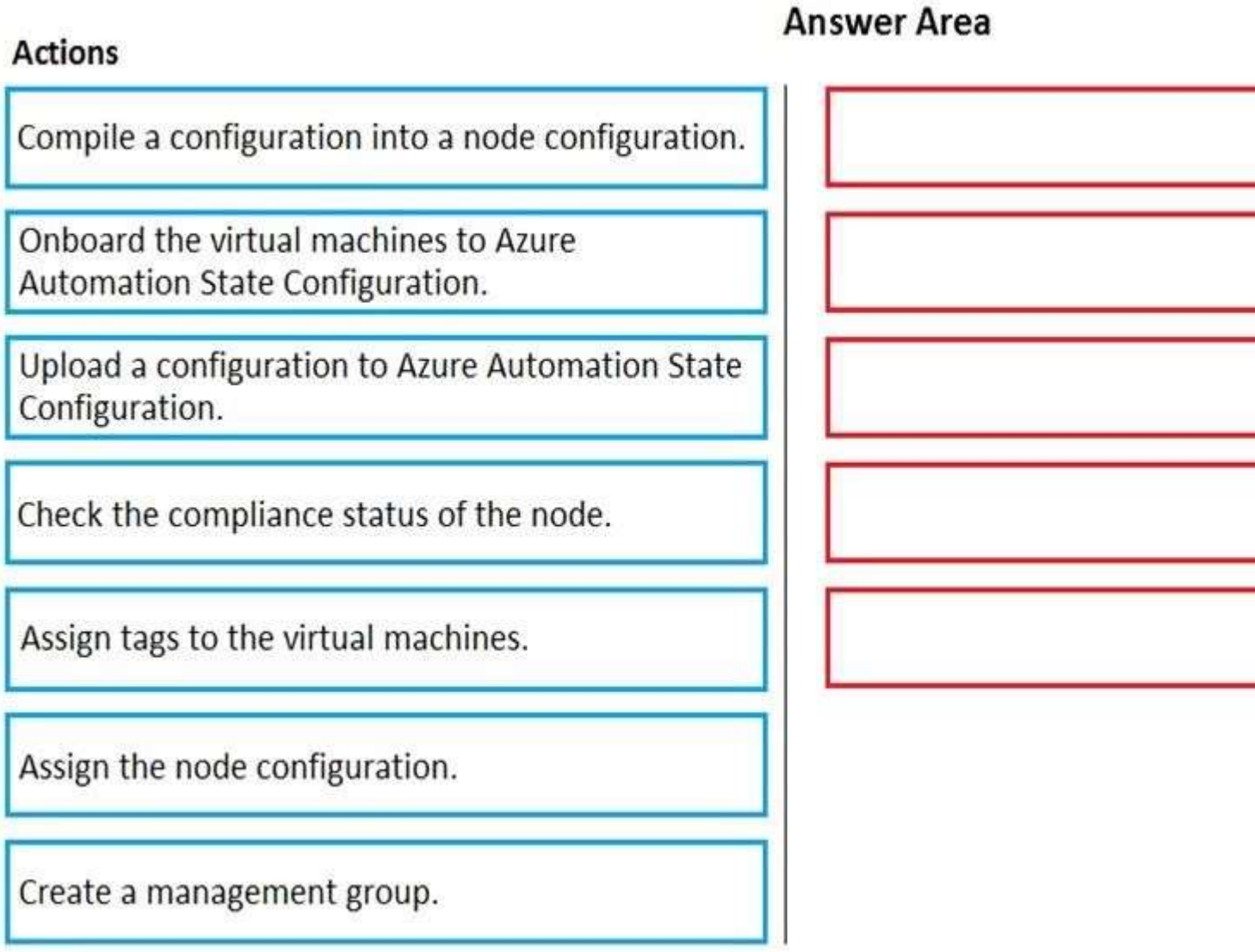
You need to use Azure Automation State Configuration to manage the ongoing consistency of virtual machine configurations.
Which five actions should you perform in sequence?

To answer, move the appropriate action from the list of actions to the answer area and arrange them in the correct order.

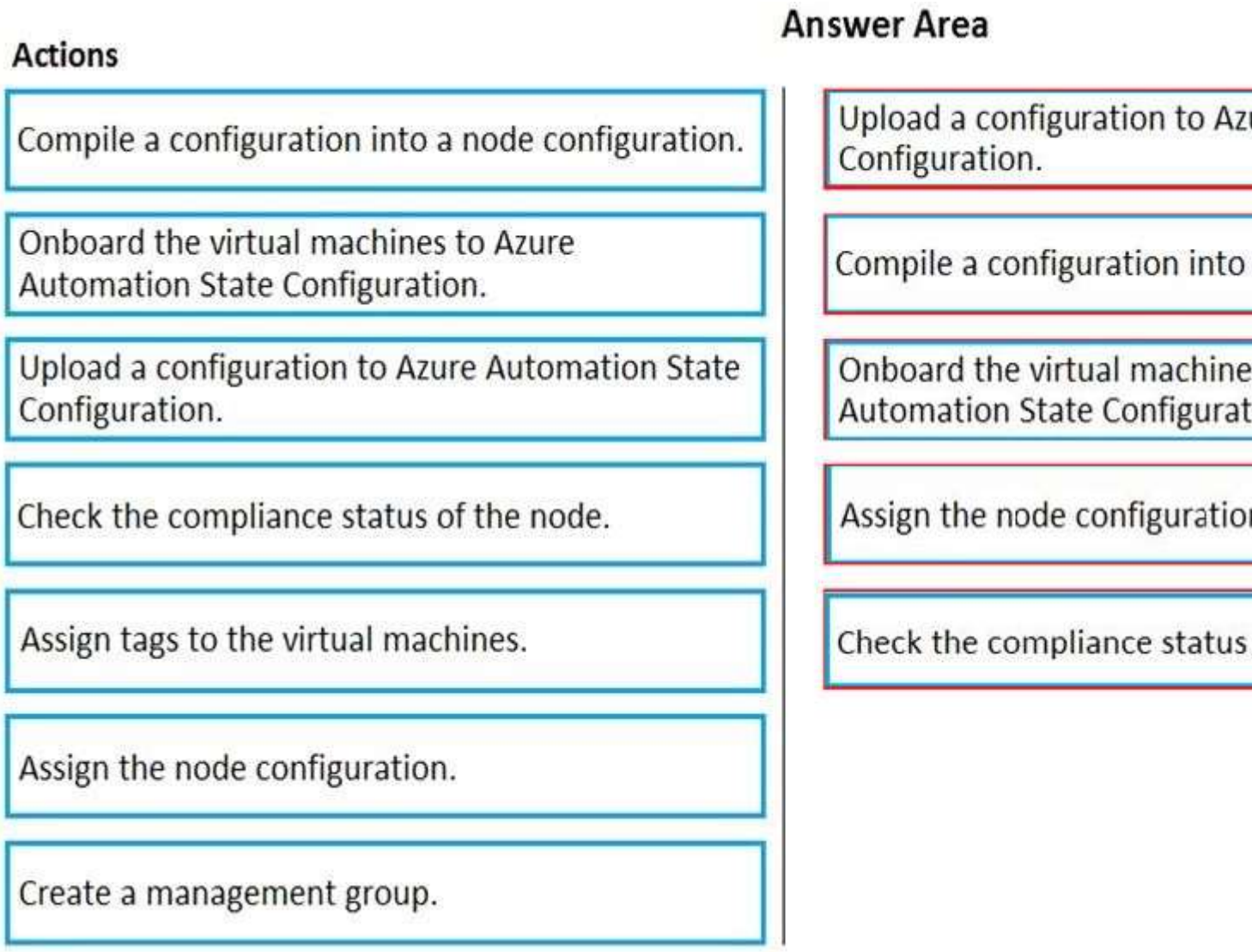
NOTE: More than one order of answer choices is correct.

You will receive credit for any of the correct orders you select.

Select and Place:



Correct Answer:



Section: Drag & Drop
Explanation

Explanation/Reference:
Explanation:

Step 1: Upload a configuration to Azure Automation State Configuration. Import the configuration into the Automation account.

Step 2: Compile a configuration into a node configuration. A DSC configuration defining that state must be compiled into one or more node configurations (MOF document), and placed on the Automation DSC Pull Server.

Step 3: Onboard the virtual machines to Azure Automation State Configuration. Onboard the Azure VM for management with Azure Automation State Configuration

Step 4: Assign the node configuration

Step 5: Check the compliance status of the node Each time Azure Automation State Configuration performs a consistency check on a managed node, the node sends a status report back to the pull server. You can view these reports on the page for that node. On the blade for an individual report, you can see the following status

information for the corresponding consistency check:

The report status - whether the node is "Compliant", the configuration "Failed", or the node is "Not Compliant"

Reference:
https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started

QUESTION 13
HOTSPOT

You manage two Azure subscriptions named Subscription1 and Subscription2.

Subscription1 has the following virtual networks:

Name	Address space	Location
VNET1	10.10.10.0/24	West Europe
VNET2	172.16.0.0/16	West US

The virtual networks contain the following subnets:

Name	Address space	Location
Subnet11	10.10.10.0/24	VNET1
Subnet21	172.16.0.0/18	VNET2
Subnet22	172.16.128.0/18	VNET2

Subscription2 contains the following virtual network:

* Name: VNETA
* Address space: 10.10.128.0/17
* Location: Canada Central

VNETA contains the following subnets:

Name	Address range
SubnetA1	10.10.130.0/24
SubnetA2	10.10.131.0/24

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Statements	Yes	No
A Site-to-Site connection can be established between VNET1 and VNET2.	○	○
VNET1 and VNET2 can be peered.	○	○
VNET1 and VNETA can be peered.	○	○

Correct Answer:

Statements	Yes	No
A Site-to-Site connection can be established between VNET1 and VNET2.	○	○
VNET1 and VNET2 can be peered.	○	○
VNET1 and VNETA can be peered.	○	○

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

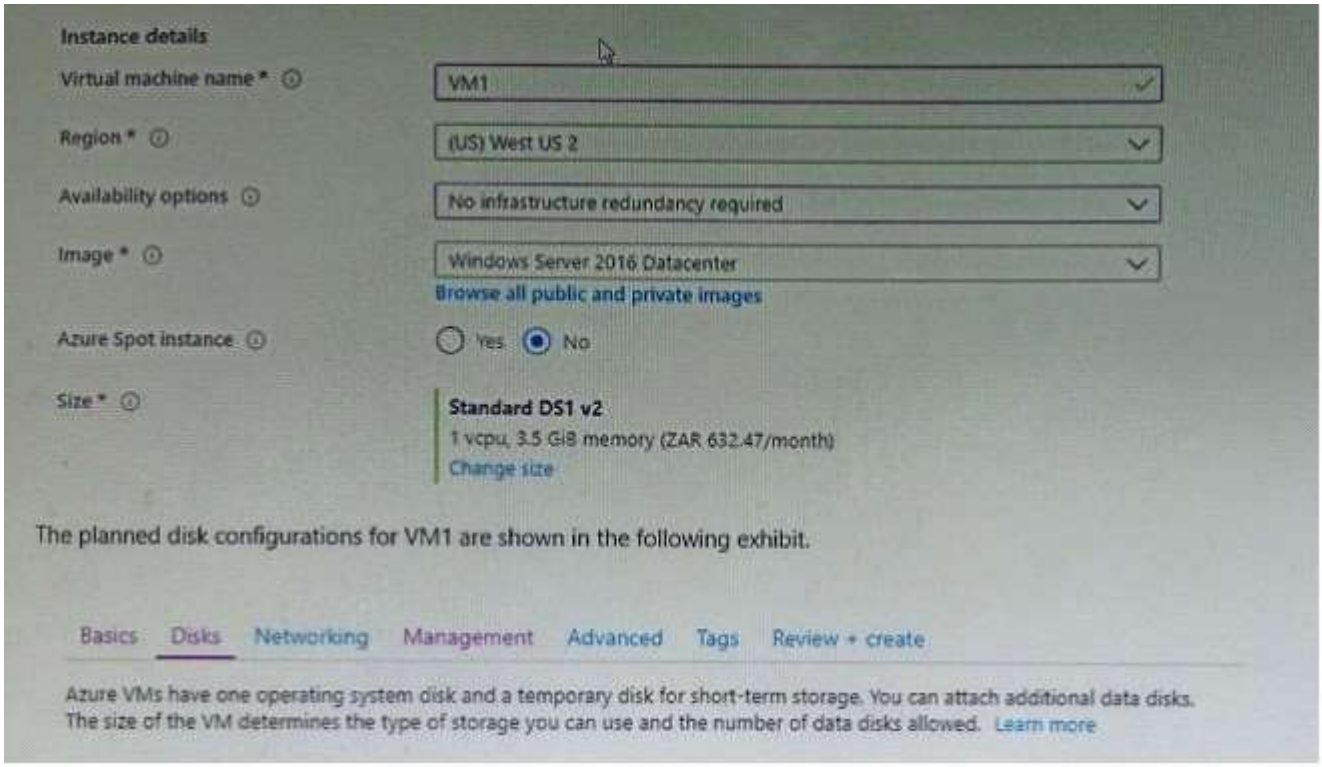
Box 1: Yes
With VNet-to-VNet you can connect Virtual Networks in Azure across Different regions.

Box 2: Yes
Azure supports the following types of peering:
Virtual network peering: Connect virtual networks within the same Azure region. Global virtual network peering: Connecting virtual networks across Azure regions.

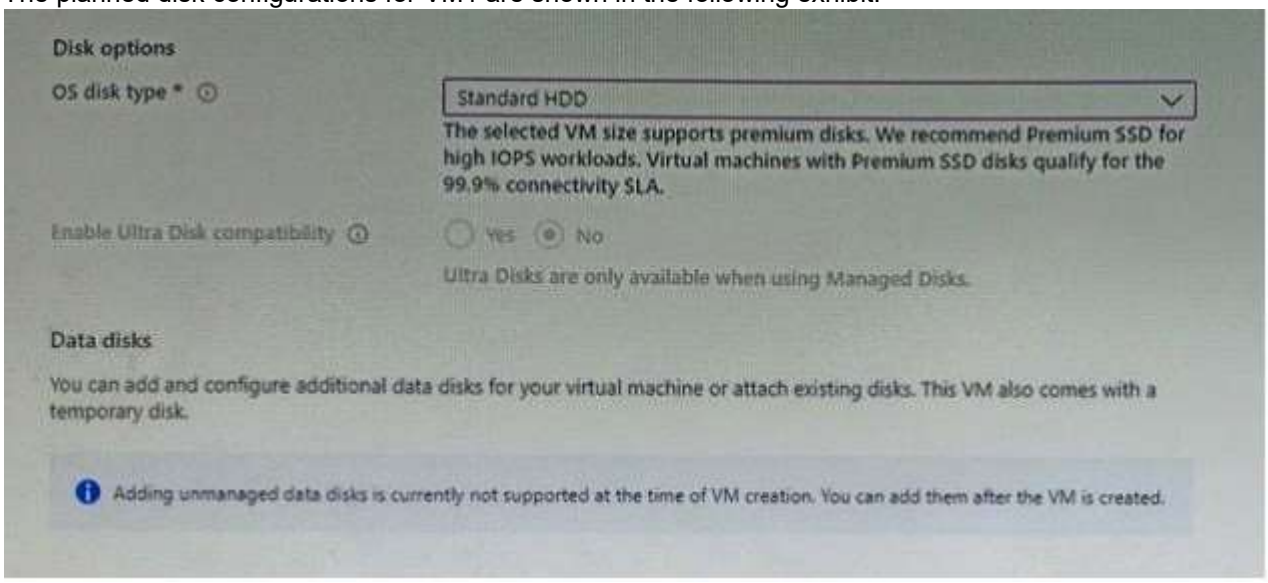
Box 3: No
The virtual networks you peer must have non-overlapping IP address spaces.

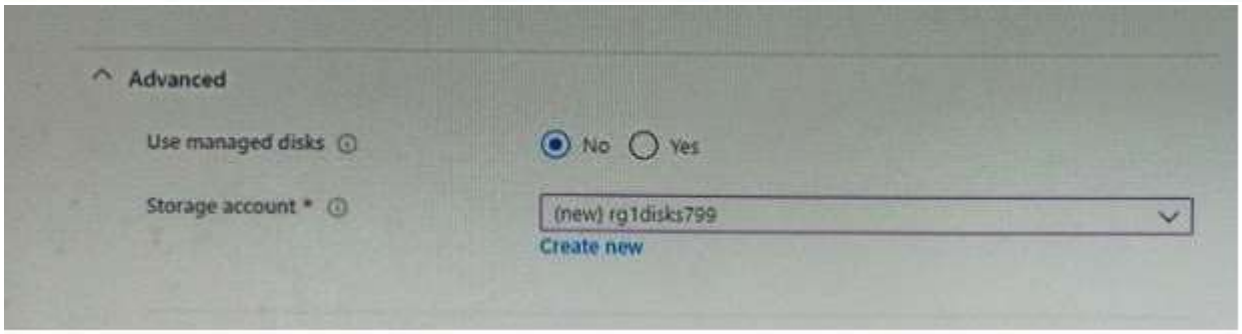
Reference:
https://azure.microsoft.com/en-us/blog/vnet-to-vnet-connecting-virtual-networks-in-azure-across-different-regions/
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-constraints

QUESTION 14
You plan to create an Azure virtual machine named VM1 that will be configured as shown in the following exhibit.



The planned disk configurations for VM1 are shown in the following exhibit.





You need to ensure that VM1 can be created in an Availability Zone.

Which two settings should you modify?

Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Use managed disks
B. Availability options
C. OS disk type
D. Size
E. Image

Correct Answer: AE
Section: Multiple Choice
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 15
You have an Azure Active Directory (Azure AD) domain that contains 5,000 user accounts.

You create a new user account named AdminUser1.
You need to assign the User administrator administrative role to AdminUser1.

What should you do from the user account properties?

A. From the Directory role blade, modify the directory role.
B. From the Groups blade, invite the user account to a new group.
C. From the Licenses blade, assign a new license.

Correct Answer: A
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Assign a role to a user
* Sign in to the Azure portal with an account that's a global admin or privileged role admin for the directory.
* Select Azure Active Directory, select Users, and then select a specific user from the list.
* For the selected user, select Directory role, select Add role, and then pick the appropriate admin roles from the Directory roles list, such as Conditional access administrator.
* Press Select to save.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active- directory-users-assign-role-azure-portal

QUESTION 16
You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com and an Azure Kubernetes Service (AKS) cluster named AKS1.

An administrator reports that she is unable to grant access to AKS1 to the users in contoso.com.
You need to ensure that access to AKS1 can be granted to the contoso.com users.

What should you do first?

A. From contoso.com, modify the Organization relationships settings.
B. From contoso.com, create an OAuth 2.0 authorization endpoint.
C. Recreate AKS1.
D. From AKS1, create a namespace.

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://kubernetes.io/docs/reference/access-authn-authz/authentication/

QUESTION 17
HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	East US	*Not applicable*
RG2	Resource group	West US	*Not applicable*
Vault1	Recovery Services vault	West Europe	RG1
storage1	Storage account	East US	RG2
storage2	Storage account	West US	RG1
storage3	Storage account	West Europe	RG2
Analytics1	Log Analytics workspace	East US	RG1
Analytics2	Log Analytics workspace	West US	RG2
Analytics3	Log Analytics workspace	West Europe	RG1

You plan to configure Azure Backup reports for Vault1.
You are configuring the Diagnostics settings for the AzureBackupReports log.

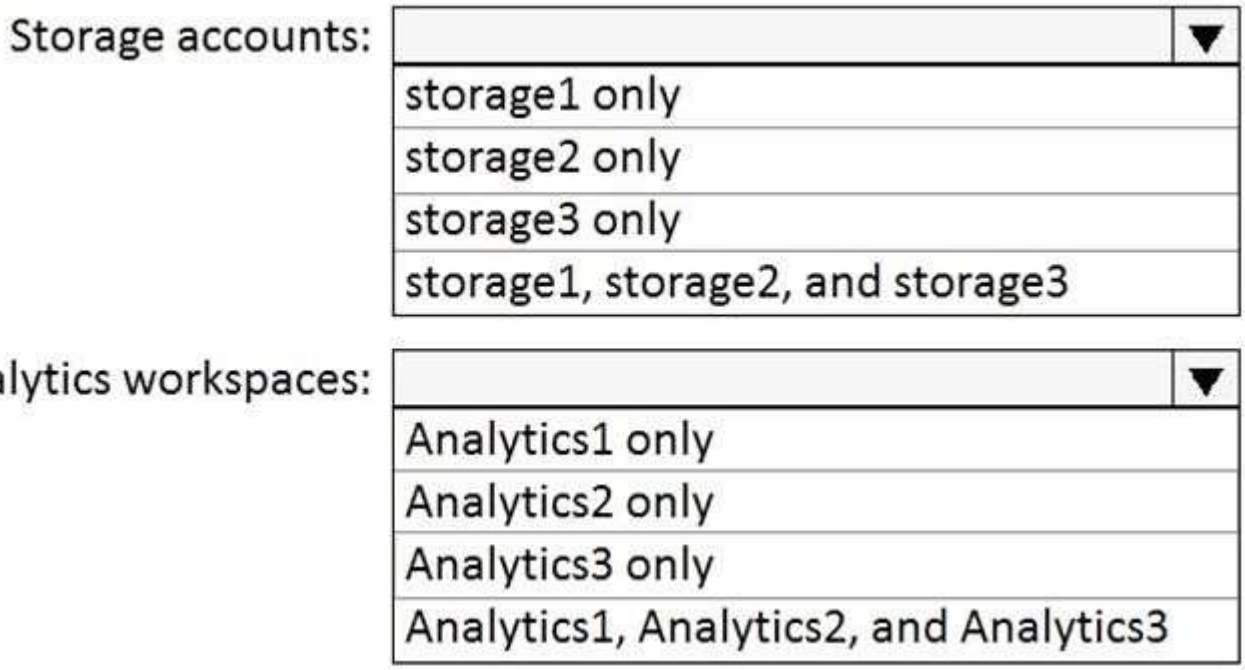
Which storage accounts and which Log Analytics workspaces can you use for the Azure Backup reports of Vault1?

To answer, select the appropriate options in the answer area.

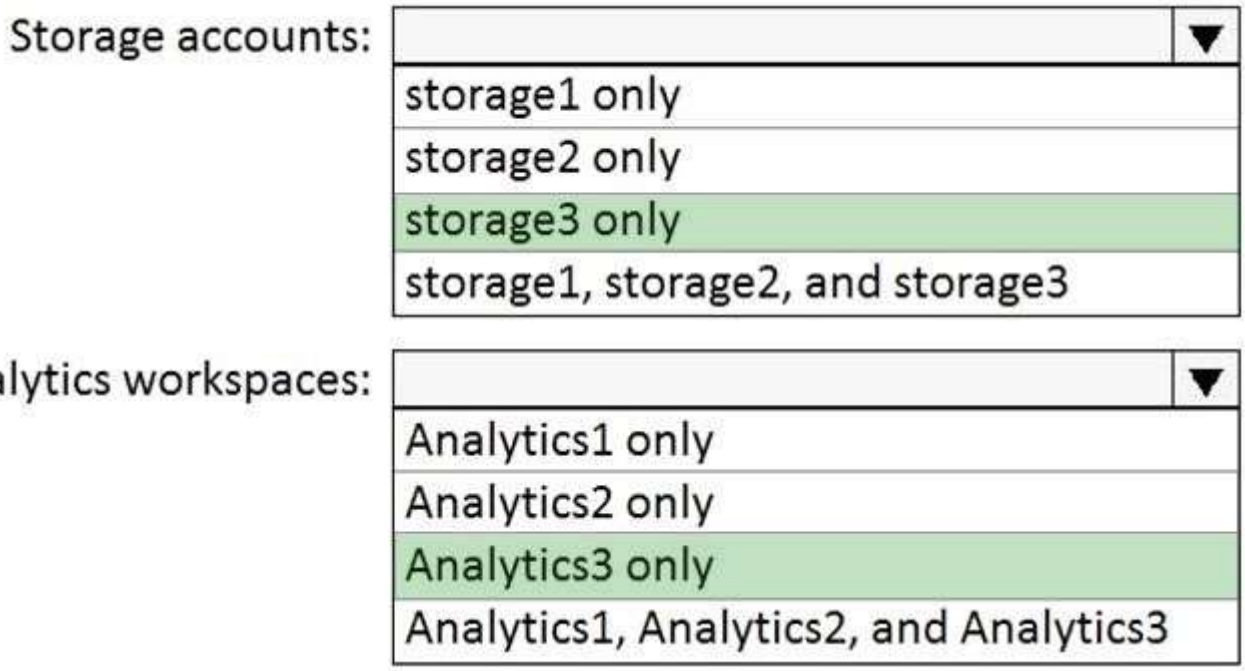
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: storage3 only
Vault1 and storage3 are both in West Europe.

Box 2: Analytics3
Vault1 and Analytics3 are both in West Europe.

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-configure-reports

QUESTION 18
You have an Azure virtual machine named VM1.

You use Azure Backup to create a backup of VM1 named Backup1. After creating Backup1, you perform the following changes to VM1:

* Modify the size of VM1.
* Copy a file named Budget.xls to a folder named Data.
* Reset the password for the built-in administrator account.
* Add a data disk to VM1.

An administrator uses the Replace existing option to restore VM1 from Backup1.

You need to ensure that all the changes to VM1 are restored.

Which change should you perform again?

A. Modify the size of VM1.
B. Add a data disk.
C. Reset the password for the built-in administrator account.
D. Copy Budget.xls to Data.

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/backup/backup-azure-arm-restore-vms#replace-existing-disks

QUESTION 19
100 Your network contains an on-premises Active Directory forest named contoso.com that contains two domains named contoso.com and east.contoso.com.

The forest contains the users shown in the following table.

Name	Domain	Member of
User1	Contoso.com	Enterprise Admins
User2	Contoso.com	Domain Admins
User3	East.contoso.com	Domain Admins
User4	East.contoso.com	Domain Users

You plan to sync east.contoso.com to an Azure Active Directory (Azure AD) tenant by using Azure AD Connect.

You need to select an account for Azure AD Connect to use to connect to the forest.

Which account should you select?

A. User1

B. User2
C. User3
D. User4

Correct Answer: D
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

It is no longer supported to use an enterprise admin or a domain admin account as the AD DS Connector account.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/hybrid/reference-connect-accounts-permissions

QUESTION 20
HOTSPOT

You have an Azure subscription that contains an Azure Directory (Azure AD) tenant named contoso.com.

The tenant is synced to the on-premises Active Directory domain. The domain contains the users shown in the following table.

Name	Role
SecAdmin1	Security administrator
BillAdmin1	Billing administrator
User1	Reports reader

You enable self-service password reset (SSPR) for all users and configure SSPR to have the following authentication methods:

* Number of methods required to reset: 2
* Methods available to users: Mobile phone, Security questions
* Number of questions required to register: 3
* Number of questions required to reset: 3

You select the following security questions:

* What is your favorite food?
* In what city was your first job?
* What was the name of your first pet?

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

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Answer Area

Statements
SecAdmin1 must answer the following question if he wants to reset his password: In what city was your first job?
BillAdmin1 must answer the following question if he wants to reset his password: What is your favorite food?
User1 must answer the following question if he wants to reset his password: What was the name of your first pet?

Correct Answer:

Answer Area

Statements
SecAdmin1 must answer the following question if he wants to reset his password: In what city was your first job?
BillAdmin1 must answer the following question if he wants to reset his password: What is your favorite food?
User1 must answer the following question if he wants to reset his password: What was the name of your first pet?

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: No
Administrator accounts are special accounts with elevated permissions. To secure them, the following restrictions apply to changing passwords of administrators:
On-premises enterprise administrators or domain administrators cannot reset their password through Self-service password reset (SSPR). They can only change their password in their on-premises environment. Thus, we recommend not syncing on-prem AD admin accounts to Azure AD. An administrator cannot use secret Questions & Answers as a method to reset password.

Box 2: Yes
Self-service password reset (SSPR) is an Azure Active Directory feature that enables employees to reset their passwords without needing to contact IT staff.

Box 3: Yes

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-sspr-deployment

QUESTION 21
You have an Azure subscription named Subscription1.
You deploy a Linux virtual machine named VM1 to Subscription1.

You need to monitor the metrics and the logs of VM1.

What should you use?

A. Linux Diagnostic Extension (LAD) 3.0
B. Azure Analysis Services
C. the AzurePerformanceDiagnostics extension
D. Azure HDInsight

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

You can use extensions to configure diagnostics on your VMs to collect additional metric data. The basic host metrics are available, but to see more granular and VM-specific metrics, you need to install the Azure diagnostics extension on the VM. The Azure diagnostics extension allows additional monitoring and diagnostics data to be retrieved from the VM.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring

QUESTION 22
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier
Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an

upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

HOTSPOT

Q. You need to recommend a solution for App1.

The solution must meet the technical requirements.

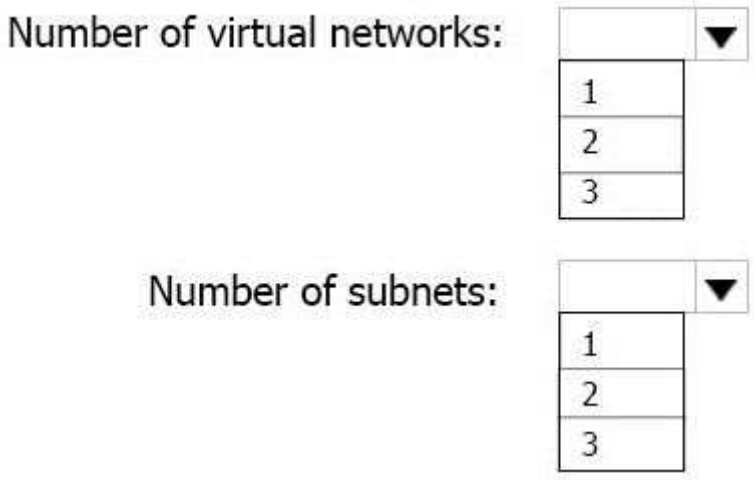
What should you include in the recommendation?

To answer, select the appropriate options in the answer area.

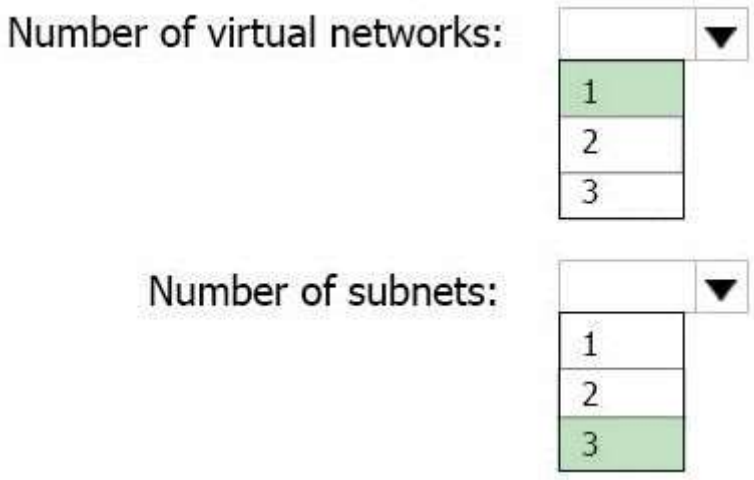
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

This reference architecture shows how to deploy VMs and a virtual network configured for an N-tier application, using SQL Server on Windows for the data tier.

Scenario:
You have a public-facing application named App1. App1 is comprised of the following three tiers:
* A SQL database
* A web front end
* A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.
* Technical requirements include:
* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.

Reference:
https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/n-tier/n-tier-sql-server

QUESTION 23
You have an Azure Active Directory (Azure AD) tenant named contosocloud.onmicrosoft.com.
Your company has a public DNS zone for contoso.com.
You add contoso.com as a custom domain name to Azure AD.

You need to ensure that Azure can verify the domain name.

Which type of DNS record should you create?

A. PTR
B. RRSIG
C. MX
D. NSEC3

Correct Answer: C
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:

QUESTION 24
You have the Azure virtual machines shown in the following table.

Name	Azure region
VM1	West Europe
VM2	West Europe
VM3	North Europe
VM4	North Europe

You have a Recovery Services vault that protects VM1 and VM2.
You need to protect VM3 and VM4 by using Recovery Services.

What should you do first?

A. Configure the extensions for VM3 and VM4.
B. Create a new Recovery Services vault.
C. Create a storage account.
D. Create a new backup policy.

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

A Recovery Services vault is a storage entity in Azure that houses data. The data is typically copies of data, or configuration information for virtual machines (VMs), workloads, servers, or workstations.
You can use Recovery Services vaults to hold backup data for various Azure services

Reference:
https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-tutorial-enable-replication

QUESTION 25
HOTSPOT

You plan to create an Azure Storage account in the Azure region of East US 2.
You need to create a storage account that meets the following requirements:

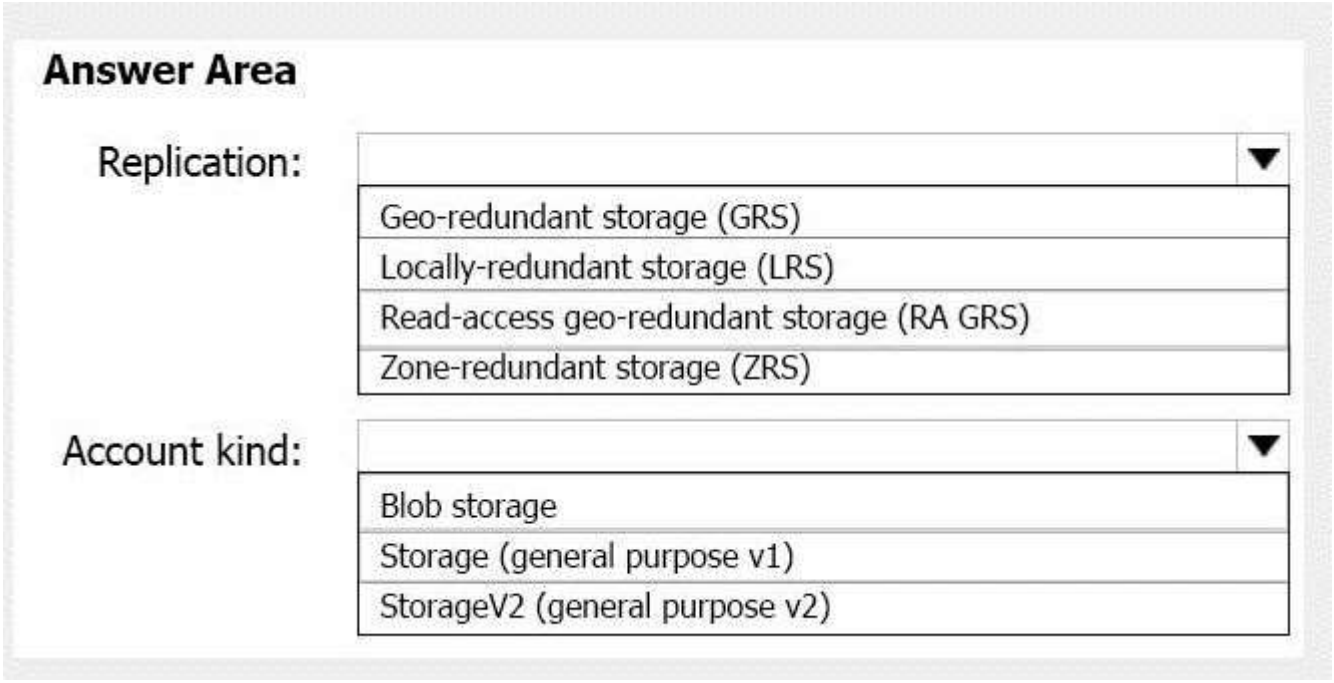
* Replicates synchronously
* Remains available if a single data center in the region fails How should you configure the storage account?

To answer, select the appropriate options in the answer area.

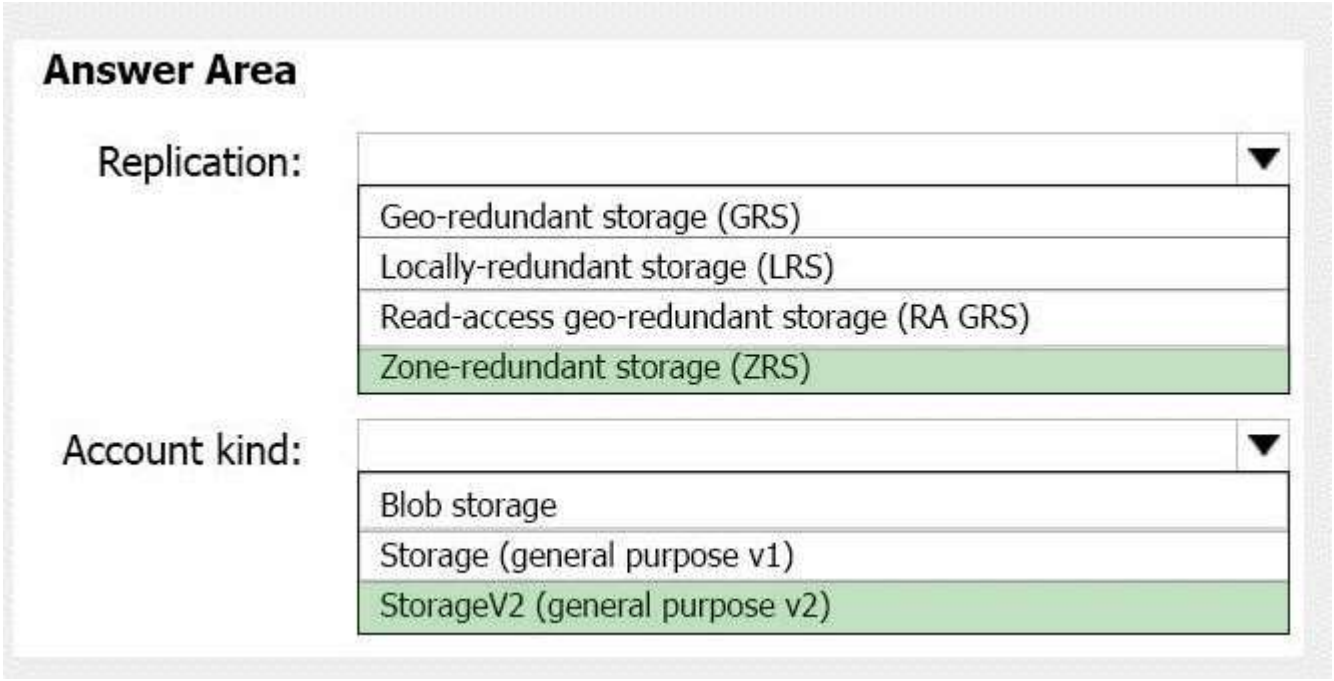
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Zone-redundant storage (ZRS)
Zone-redundant storage (ZRS) replicates your data synchronously across three storage clusters in a single region.
LRS would not remain available if a data center in the region fails GRS and RA GRS use asynchronous replication.

Box 2: StorageV2 (general purpose V2)
ZRS only support GPv2.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-zrs

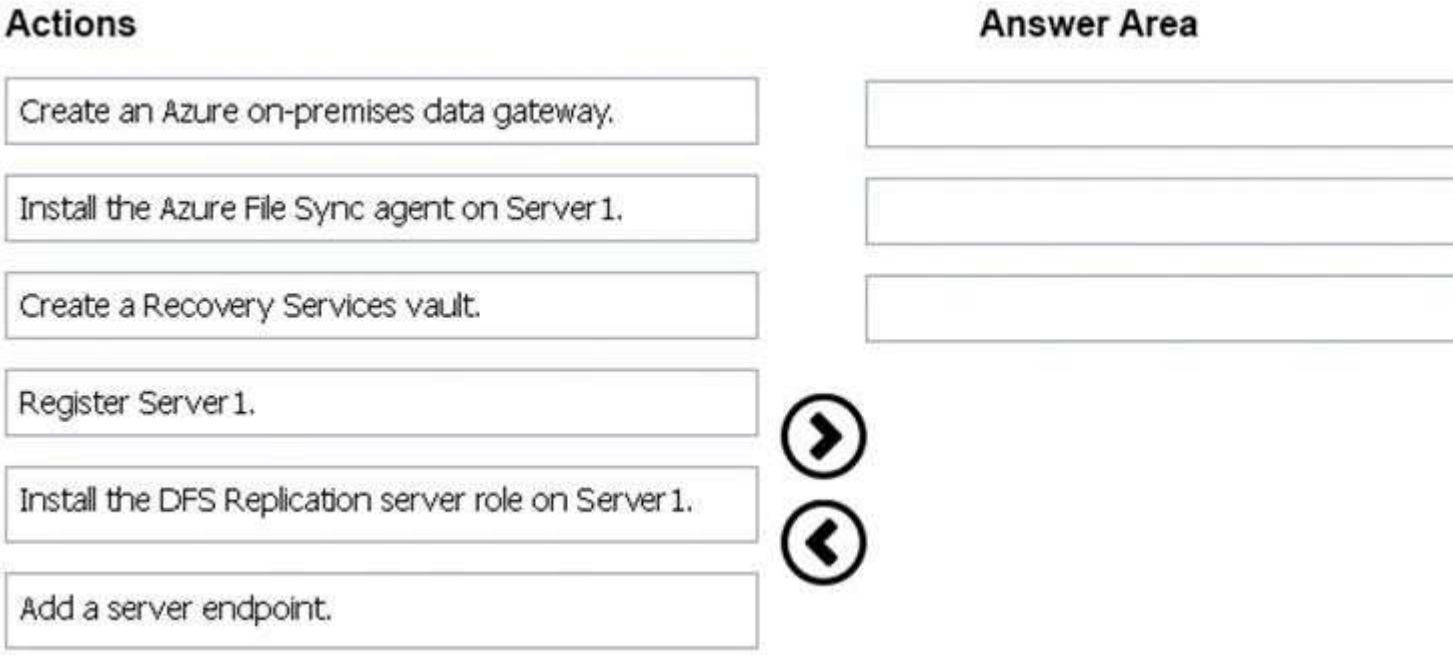
QUESTION 26
DRAG & DROP

You have an on-premises file server named Server1 that runs Windows Server 2016.
You have an Azure subscription that contains an Azure file share.
You deploy an Azure File Sync Storage Sync Service, and you create a sync group.
You need to synchronize files from Server1 to Azure.

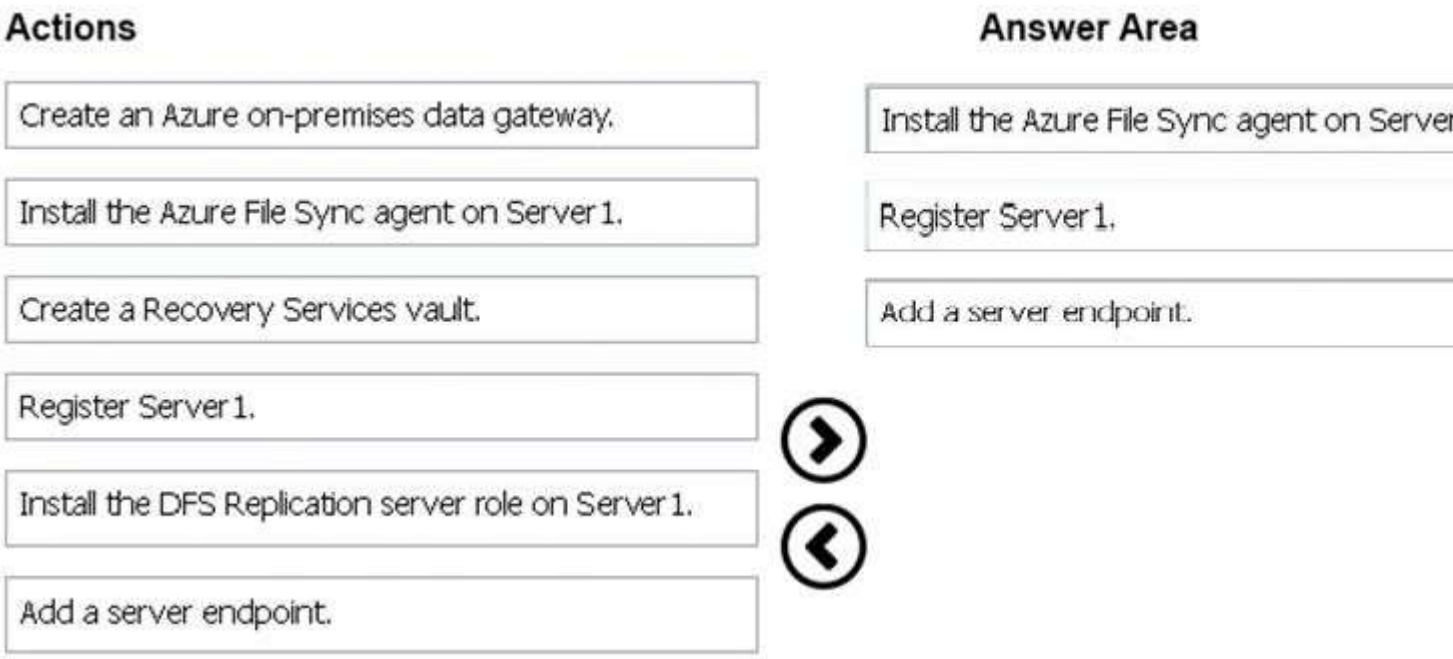
Which three actions should you perform in sequence?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Section: Drag & Drop
Explanation

Explanation/Reference:
Explanation:

Step 1: Install the Azure File Sync agent on Server1
The Azure File Sync agent is a downloadable package that enables Windows Server to be synced with an Azure file share

Step 2: Register Server1.
Register Windows Server with Storage Sync Service
Registering your Windows Server with a Storage Sync Service establishes a trust relationship between your server (or cluster) and the Storage Sync Service.

Step 3: Add a server endpoint
Create a sync group and a cloud endpoint.
A sync group defines the sync topology for a set of files. Endpoints within a sync group are kept in sync with each other. A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints. A server endpoint represents a path on registered server.

Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

QUESTION 27
HOTSPOT

You have an Azure virtual machine that runs Windows Server 2019 and has the following configurations:

* Name: VM1
* Location: West US
* Connected to: VNET1
* Private IP address: 10.1.0.4
* Public IP address: 52.186.85.63
* DNS suffix in Windows Server: Adatum.com

You create the Azure DNS zones shown in the following table.

Name	Type	Location
Adatum.pri	Private	West Europe
Contoso.pri	Private	Central US
Adatum.com	Public	West Europe
Contoso.com	Public	North Europe

You need to identify which DNS zones you can link to VNET1 and the DNS zones to which VM1 can automatically register.

Which zones should you identify?

To answer, select the appropriate options in the answer area.

Hot Area

Hot Area:

DNS zones that you can link to VNET1:

- Adatum.com only
- Adatum.pri and adatum.com only
- The private zones only
- The public zones only

DNS zones to which VM1 can automatically register:

- Adatum.com only
- Adatum.pri and adatum.com only
- The private zones only
- The public zones only

Correct Answer:

DNS zones that you can link to VNET1:

Adatum.com only
Adatum.pri and adatum.com only
The private zones only
The public zones only

DNS zones to which VM1 can automatically register:

Adatum.com only
Adatum.pri and adatum.com only
The private zones only
The public zones only

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/dns/private-dns-overview

QUESTION 28
You need to resolve the licensing issue before you attempt to assign the license again.

What should you do?

Case Study Title (Case Study):
Topic 2 - Humongous Insurance

Overview Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok.
Each has 5000 users.
Active Directory Environment
Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com.
The functional level of the forest is Windows Server 2012.
You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure
Each office has a local data center that contains all the servers for that office.
Each office has a dedicated connection to the Internet.
Each office has several link load balancers that provide access to the servers.
Active Directory Issue
Several users in humongousinsurance.com have UPNs that contain special characters. You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Requirements
Planned Changes
Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months.
All the resources used by the Paris office users will be hosted in Azure.
Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD. All client computers in the Paris office will be joined to an Azure AD domain.
Planned Azure Networking Infrastructure
You plan to create the following networking resources in a resource group named All_Resources:
* Default Azure system routes that will be the only routes used to route traffic
* A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
* A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
* A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4 You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.
Planned Azure Computer Infrastructure
Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements
Humongous Insurance identifies the following requirements for the company's departments:
* Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
* During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements
Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

A. From the Groups blade, invite the user accounts to a new group.
B. From the Profile blade, modify the usage location.
C. From the Directory role blade, modify the directory role.

Correct Answer: A
Section: Topic 2 - Humongous Insurance
Explanation

Explanation/Reference:
Explanation:

License cannot be assigned to a user without a usage location specified.

Scenario:
Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message:
"Licenses not assigned. License agreement failed for one user." You verify that the Azure subscription has the available licenses.

Reference:

QUESTION 29

HOTSPOT

You have an Azure Active Directory (Azure AD) tenant named adatum.com. Adatum.com contains the groups in the following table.

Name	Group type	Membership type	Membership rule
Group1	Security	Dynamic user	(user.city -startsWith "m")
Group2	Microsoft Office 365	Dynamic user	(user.department -notIn ["HR"])
Group3	Microsoft Office 365	Assigned	*Not applicable*

You create two user accounts that are configured as shown in the following table.

Name	City	Department	Office 365 license assigned
User1	Montreal	Human resources	Yes
User2	Melbourne	Marketing	No

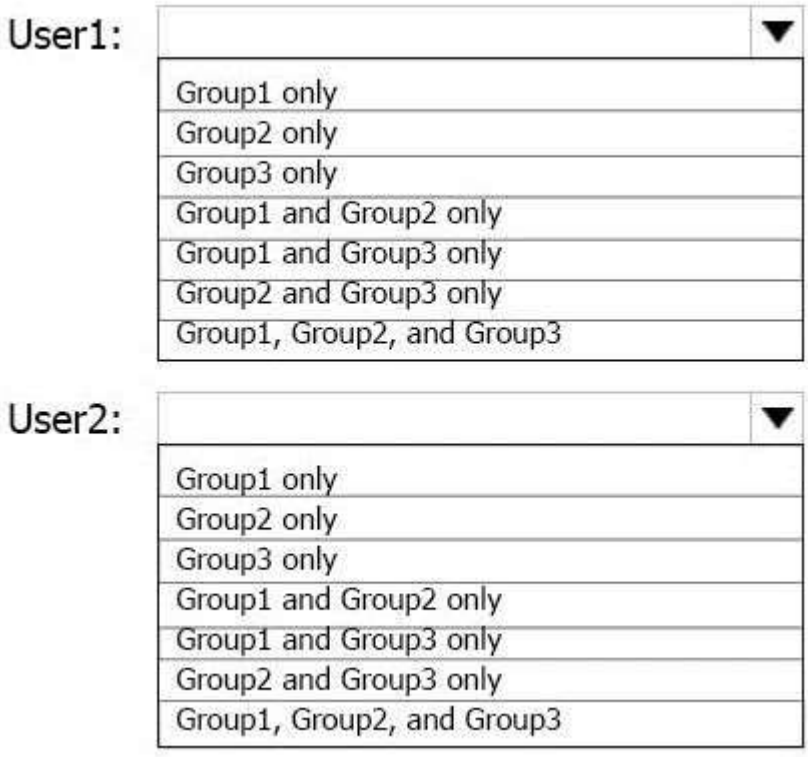
To which groups do User1 and User2 belong?

To answer. select the appropriate options in the answer area.

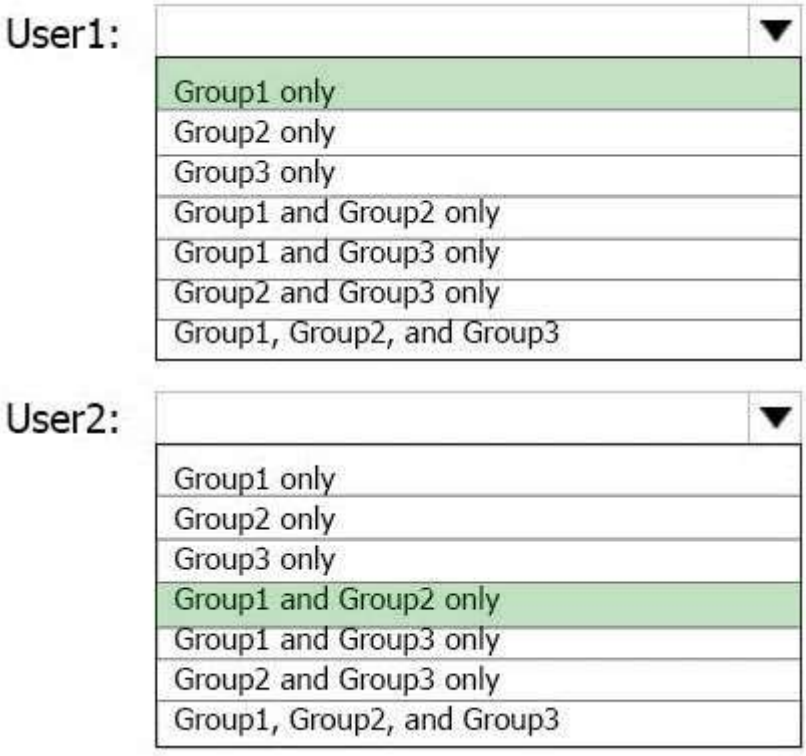
NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:



Correct Answer:



Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: Group 1 only
First rule applies

Box 2: Group1 and Group2 only
Both membership rules apply.

Reference:
https://docs.microsoft.com/en-us/sccm/core/clients/manage/collections/create- collections

QUESTION 30
Your on-premises network contains an Active Directory domain named adatum.com that is synced to Azure Active Directory (Azure AD).

Password writeback is disabled. In adatum.com, you create the users shown in the following table.

Name	Account option
User1	User must change password at next logon.
User2	Store password by using reversible encryption.
User3	A smart card is required for interactive logon.

Which users must sign in from a computer joined to adatum.com?

A. User2 only

B. User1 and User3 only
C. User1, User2, and User3
D. User2 and User3 only
E. User1 only

Correct Answer: E
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Password writeback is a feature enabled with Azure AD Connect that allows password changes in the cloud to be written back to an existing on-premises directory in real time.

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-sspr-writeback

QUESTION 31
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1.
The point-to-site connection uses a self-signed certificate. From Azure, you download and install the VPN client configuration package on a computer named Computer2.

You need to ensure that you can establish a point-to-site VPN connection to VNet1 from Computer2.

Solution:
On Computer2, you set the Startup type for the IPSec Policy Agent service to Automatic.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

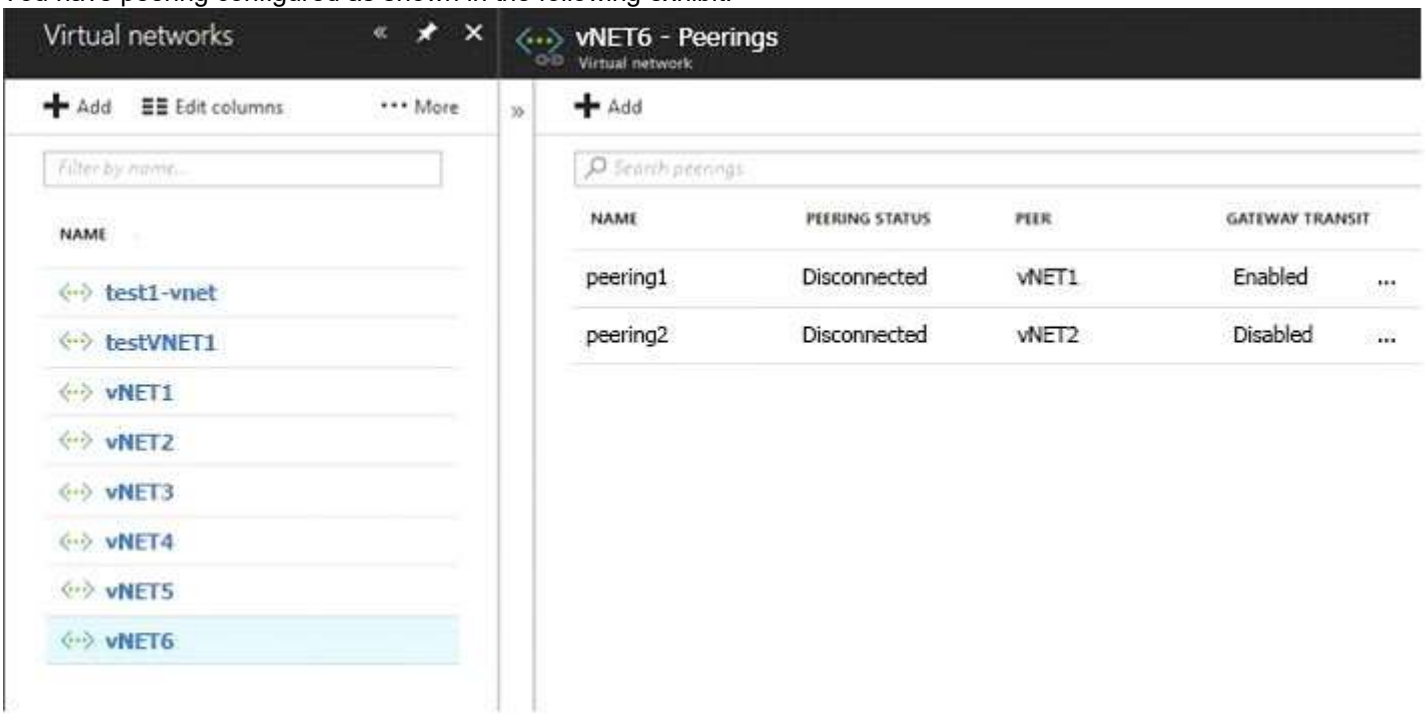
Instead export the client certificate from Computer1 and install the certificate on Computer2.

Note: Each client computer that connects to a VNet using Point-to-Site must have a client certificate installed. You generate a client certificate from the self-signed root certificate, and then export and install the client certificate.
If the client certificate is not installed, authentication fails.

References:
https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-certificates-point-to-site

QUESTION 32
HOTSPOT

You have peering configured as 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.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Answer Area

Hosts on vNET6 can communicate with hosts on [**answer choice**].

- vNET6 only
- vNET6 and vNET1 only
- vNET6, vNET1, and vNET2
- all the virtual networks in t

To change the status of the peering connection to vNET1 to **Connected**, you must first [**answer choice**].

- add a service endpoint
- add a subnet
- delete peering1
- modify the address space

Correct Answer:

Answer Area

Hosts on vNET6 can communicate with hosts on [**answer choice**].

- vNET6 only
- vNET6 and vNET1 only
- vNET6, vNET1, and vNET2
- all the virtual networks in t

To change the status of the peering connection to vNET1 to **Connected**, you must first [**answer choice**].

- add a service endpoint
- add a subnet
- delete peering1
- modify the address space

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: vNET6 only

Box 2: Modify the address space
The virtual networks you peer must have non-overlapping IP address spaces.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-constraints

QUESTION 33
You have an Azure subscription that contains an Azure virtual machine named VM1.

VM1 runs a financial reporting app named App1 that does not support multiple active instances.
At the end of each month, CPU usage for VM1 peaks when App1 runs.

You need to create a scheduled runbook to increase the processor performance of VM1 at the end of each month.

What task should you include in the runbook?

A. Add the Azure Performance Diagnostics agent to VM1.
B. Modify the VM size property of VM1.
C. Add VM1 to a scale set.
D. Increase the vCPU quota for the subscription.
E. Add a Desired State Configuration (DSC) extension to VM1.

Correct Answer: E
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/automation/automation-quickstart-dsc-configuration

QUESTION 34
HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	West US	*Not applicable*
RG2	Resource group	West US	*Not applicable*
Vault1	Recovery Services vault	Central US	RG1
Vault2	Recovery Services vault	West US	RG2
VM1	Virtual machine	Central US	RG2
storage1	Storage account	West US	RG1
SQL1	Azure SQL database	East US	RG2

In storage1, you create a blob container named blob1 and a file share named share1.

Which resources can be backed up to Vault1 and Vault2?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area

Hot Area:

Can use Vault1 for backups:

- VM1 only
- VM1 and share1 only
- VM1 and SQL1 only
- VM1, storage1, and SQL1 only
- VM1, blob1, share1, and SQL1

Can use Vault2 for backups:

- storage1 only
- share1 only
- VM1 and share1 only
- blob1 and share1 only
- storage1 and SQL1 only

Correct Answer:

Can use Vault1 for backups:

- **VM1 only**
- VM1 and share1 only
- VM1 and SQL1 only
- VM1, storage1, and SQL1 only
- VM1, blob1, share1, and SQL1

Can use Vault2 for backups:

- storage1 only
- **share1 only**
- VM1 and share1 only
- blob1 and share1 only
- storage1 and SQL1 only

Section: Hotspot
Explanation

Explanation/Reference:
Explanation:

Box 1: VM1 only
VM1 is in the same region as Vault1.

File1 is not in the same region as Vautl1.
SQL is not in the same region as Vault1.
Blobs cannot be backup up to service vaults.

Note: To create a vault to protect virtual machines, the vault must be in the same region as the virtual machines.

Box 2: Share1 only.
Storage1 is in the same region (West USA) as Vault2. Share1 is in Storage1. Note: After you select Backup, the Backup pane opens and prompts you to select a storage account from a list of discovered supported storage accounts. They're either associated with this vault or present in the same region as the vault, but not yet associated to any Recovery Services vault.

Reference:
https://docs.microsoft.com/bs-cyrl-ba/azure/backup/backup-create-rs-vault
https://docs.microsoft.com/en-us/azure/backup/backup-afs

QUESTION 35
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains the following resources:

* A virtual network that has a subnet named Subnet1
* Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1
* A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections NSG-Subnet1 has the default inbound security rules only. NSG-VM1 has the default inbound security rules and the following custom inbound security rule:
* Priority: 100
* Source: Any
* Source port range: *
* Destination: *
* Destination port range: 3389
* Protocol: UDP
* Action: Allow

VM1 connects to Subnet1. NSG1-VM1 is associated to the network interface of VM1. NSG-Subnet1 is associated to Subnet1.

You need to be able to establish Remote Desktop connections from the internet to VM1.

Solution:
You add an inbound security rule to NSG-Subnet1 that allows connections from the Any source to the VirtualNetwork destination for port range 3389 and uses the TCP protocol.
You remove NSG-VM1 from the network interface of VM1.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: Single Select
Explanation

Explanation/Reference:
Explanation:

The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.
Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/troubleshoot-rdp-connection

QUESTION 36
Topic 3 - Contoso Ltd

Overview
Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.
Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment
Currently, Contoso uses multiple types of servers for business operations, including the following:
* File servers
* Domain controllers
* Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.
You have a public-facing application named App1. App1 is comprised of the following three tiers:

* A SQL database
* A web front end
* A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements
Planned Changes

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.
Move the existing product blueprint files to Azure Blob storage. Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.
Technical Requirements
Contoso must meet the following technical requirements:

* Move all the virtual machines for App1 to Azure.
* Minimize the number of open ports between the App1 tiers.
* Ensure that all the virtual machines for App1 are protected by backups.
* Copy the blueprint files to Azure over the Internet.
* Ensure that the blueprint files are stored in the archive storage tier.
* Ensure that partner access to the blueprint files is secured and temporary.
* Prevent user passwords or hashes of passwords from being stored in Azure.
* Use unmanaged standard storage for the hard disks of the virtual machines.
* Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements
Contoso identifies the following requirements for users:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD. Designate a new user named Admin1 as the service administrator of the Azure subscription. Ensure that a new user named User3 can create network objects for the Azure subscription.

Question

HOTSPOT

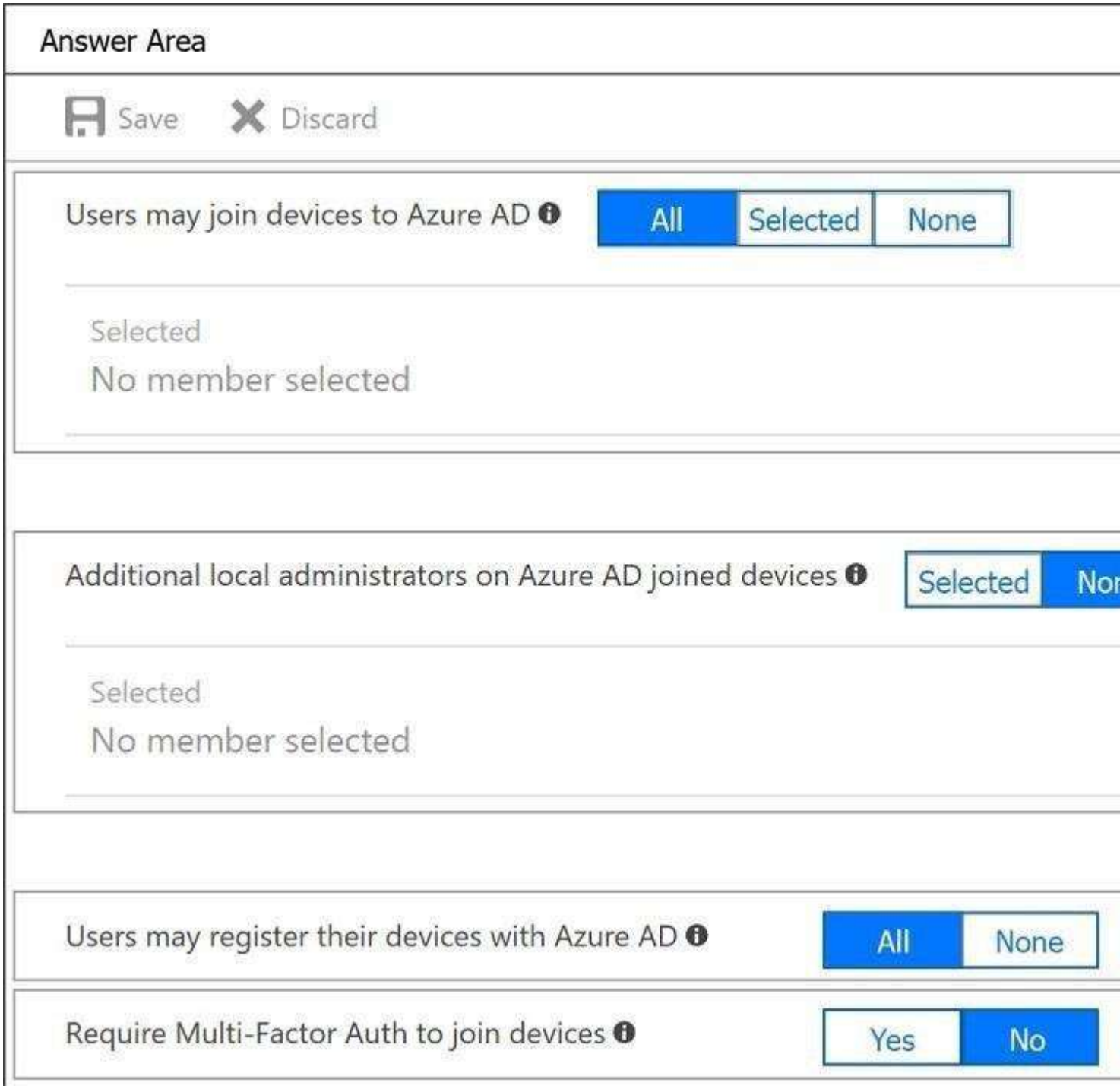
You need to configure the Device settings to meet the technical requirements and the user requirements.

Which two settings should you modify?

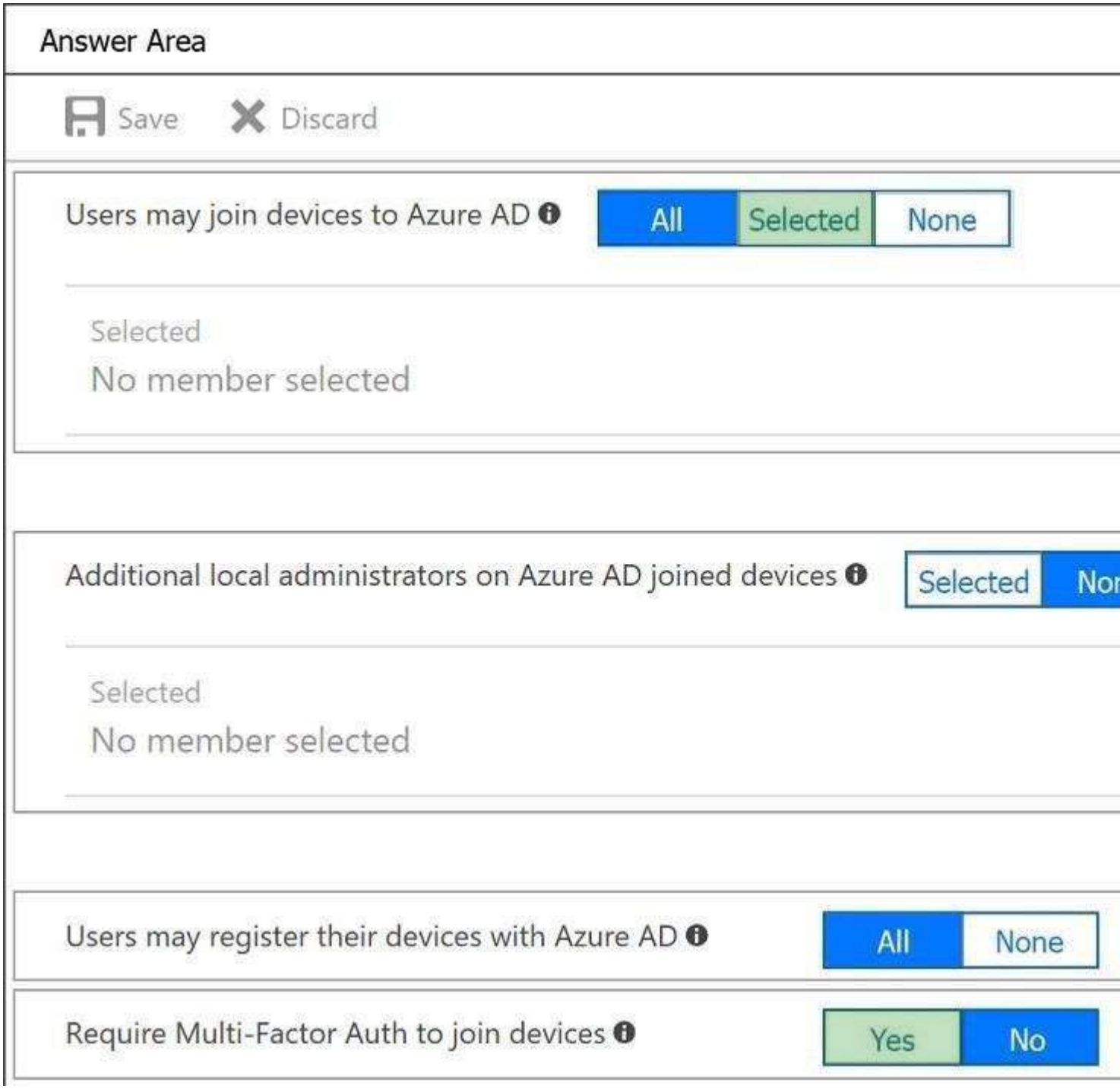
To answer, select the appropriate settings in the answer area.

Hot Area

Hot Area:



Correct Answer:



Section: Topic 3 - Contoso Ltd
Explanation

Explanation/Reference:
Explanation:

Box 1: Selected
Only selected users should be able to join devices
Box 2: Yes
Require Multi-Factor Auth to join devices.

Scenario:
Ensure that only users who are part of a group named Pilot can join devices to Azure AD.
Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.