



AZ-103^{Q&As}

Microsoft Azure Administrator

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QUESTION 1

You have an Azure subscription named Subscription1. Subscription1 contains a virtual machine named VM1. You have a computer named Computer1 that runs Windows 10. Computer1 is connected to the Internet. You add a network interface named Interface1 to VM1 as shown in the exhibit. (Click the Exhibit tab.)

Network Interface: vm1173 Effective security rules Topology

Virtual network/subnet: RG1-vnet/default Public IP: VM1-ip Private IP: 10.0.0.5 Accelerated

networking: **Disabled**

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group VM1-nsg (attached to network interface: vm1173) Add inbound port rule

Impacts 0 subnets, 1 network interfaces

PRIORITY	NAME	PORT	PROT...	SOURCE	DESTINATI...	ACTION
300	⚠ RDP	3389	TCP	Any	Any	✔ Allow ...
65000	AllowVnetInBound	Any	Any	VirtualNetw...	VirtualNe...	✔ Allow ...
65001	AllowAzureLoadBalancerInBo...	Any	Any	AzureLoadB...	Any	✔ Allow ...
65500	DenyAllInBound	Any	Any	Any	Any	✘ Deny ...

From Computer1, you attempt to connect to VM1 by using Remote Desktop, but the connection fails.

You need to establish a Remote Desktop connection to VM1.

What should you do first?

- A. Change the priority of the RDP rule.
- B. Attach a network interface.
- C. Delete the DenyAllInBound rule.
- D. Start VM1.

Correct Answer: D

Incorrect Answers:

A: Rules are processed in priority order, with lower numbers processed before higher numbers, because lower numbers have higher priority. Once traffic matches a rule, processing stops. RDP already has the lowest number and thus the highest priority.

B: The network interface has already been added to VM.

C: The Outbound rules are fine.

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

**QUESTION 2**

You have an Azure App Service plan that hosts an Azure App Service named App1. You configure one production slot and four staging slots for App1. You need to allocate 10 percent of the traffic to each staging slot and 60 percent of the traffic to the production slot.

What should you add to App1?

- A. slots to the Testing in production blade
- B. a performance test
- C. a WebJob
- D. templates to the Automation script blade

Correct Answer: A

Besides swapping, deployment slots offer another killer feature: testing in production. Just like the name suggests, using this, you can actually test in production. This means that you can route a specific percentage of user traffic to one or more of your deployment slots.

Example:



References: <https://stackify.com/azure-deployment-slots/>

QUESTION 3

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

QUESTION 4

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:

Actions

From the Azure portal, click **File Recovery** from the vault.

Copy the files by using `AZCOPY`.

Select a restore point.

Copy the files by using File Explorer.

From the Azure portal, click **Restore VM** from the vault.

Mount a VHD.

Download and run a script.

Answer Area





Correct Answer:

Actions

- Copy the files by using File Explorer.
- From the Azure portal, click **Restore VM** from the vault.
- Mount a VHD.

Answer Area

- From the Azure portal, click **File Recovery** from the vault.
- Select a restore point.
- Download and run a script.
- Copy the files by using `AZCopy`.

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.

References:

<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 5

You plan to support many connections to your company's automatically uses up to five instances when CPU utilization on the instances exceeds 70 percent for 10 minutes. When CPU utilization decreases, the solution must automatically reduce the number of instances.

What should you do from the Azure portal?



A. Answer: See below.

Correct Answer: A

Step 1: Locate the Homepage App Service plan Step 2: Click Add a rule, and enter the appropriate fields, such as below, and the click Add. Time aggregation: average Metric Name: Percentage CPU Operator: Greater than Threshold 70 Duration: 10 minutes Operation: Increase count by Instance count: 4



Scale rule ✕

Metric source
Current resource (myScaleSet) ▼

Resource type
Virtual machine scale sets ▼

Resource
myScaleSet ▼

Criteria

* Time aggregation ⓘ
Average ▼

* Metric name
Percentage CPU ▼

1 minute time grain

* Time grain statistic ⓘ
Average ▼

* Operator
Greater than ▼

* Threshold
70

* Duration (in minutes) ⓘ
10

Action

* Operation
Increase percent by ▼

* Instance count
20 ✓

Step 3: We must add a scale in rule as well. Click Add a rule, and enter the appropriate fields, such as below, then click Add. Operator: Less than Threshold 70 Duration: 10 minutes Operation: Decrease count by Instance count: 4
References: <https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale->



portal <https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-autoscale-best-practices>

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 subscription that contains the following resources:

1.

A virtual network that has a subnet named Subnet1

2.

Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1

3.

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:

1.

Priority: 100

2.

Source: Any

3.

Source port range: *

4.

Destination: *

5.

Destination port range: 3389

6.

Protocol: UDP



7.

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

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.

References:

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

QUESTION 7

You have an Azure subscription named Subscription1 that is used by 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

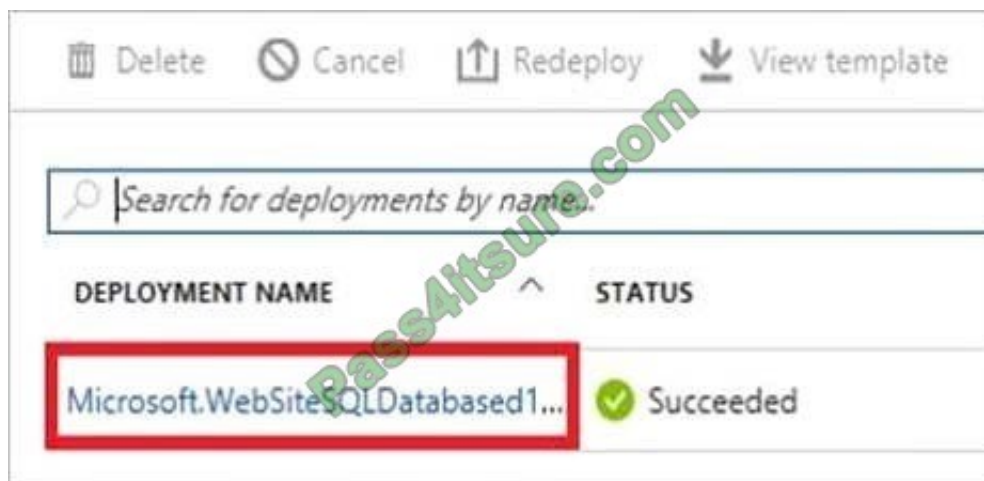
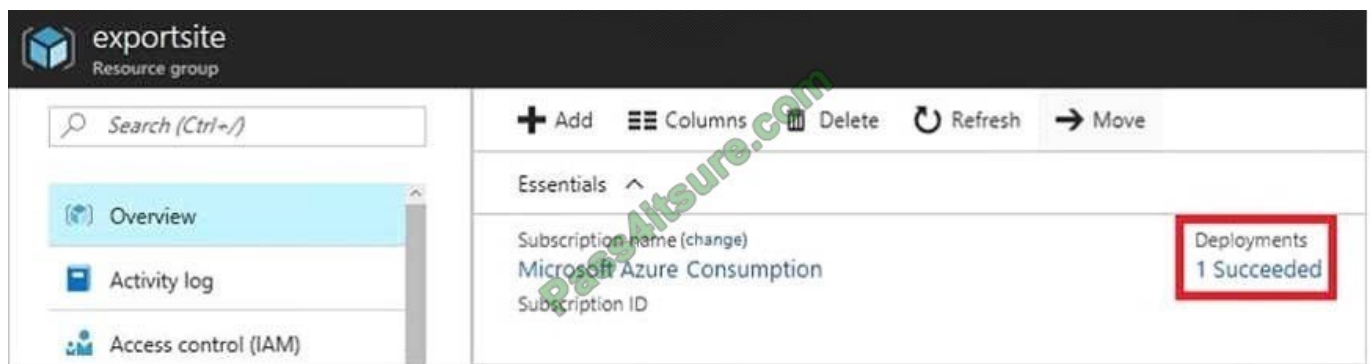
1.

View template from deployment history

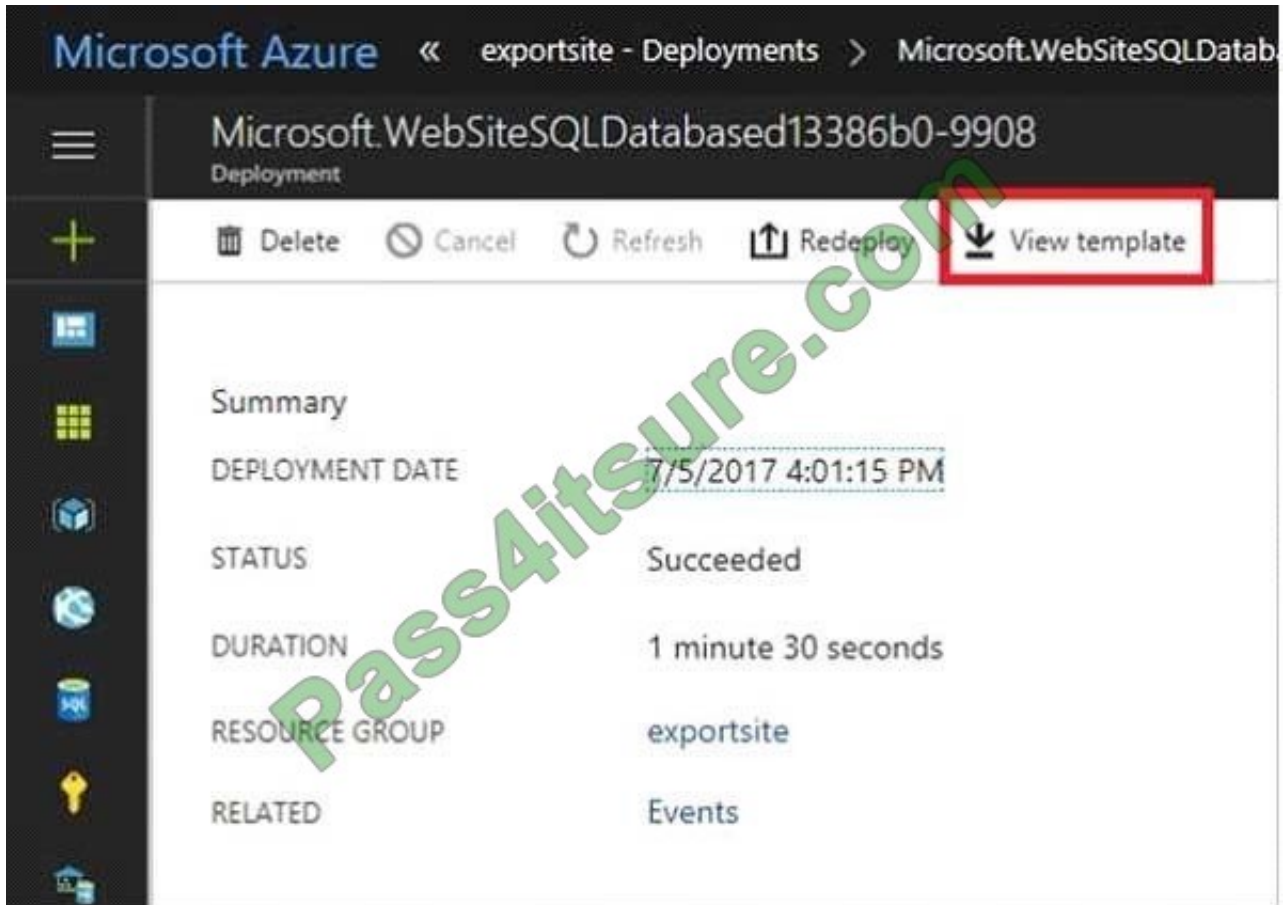
Go to the resource group for your new resource group. Notice that the portal shows the result of the last deployment. Select this link.

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.



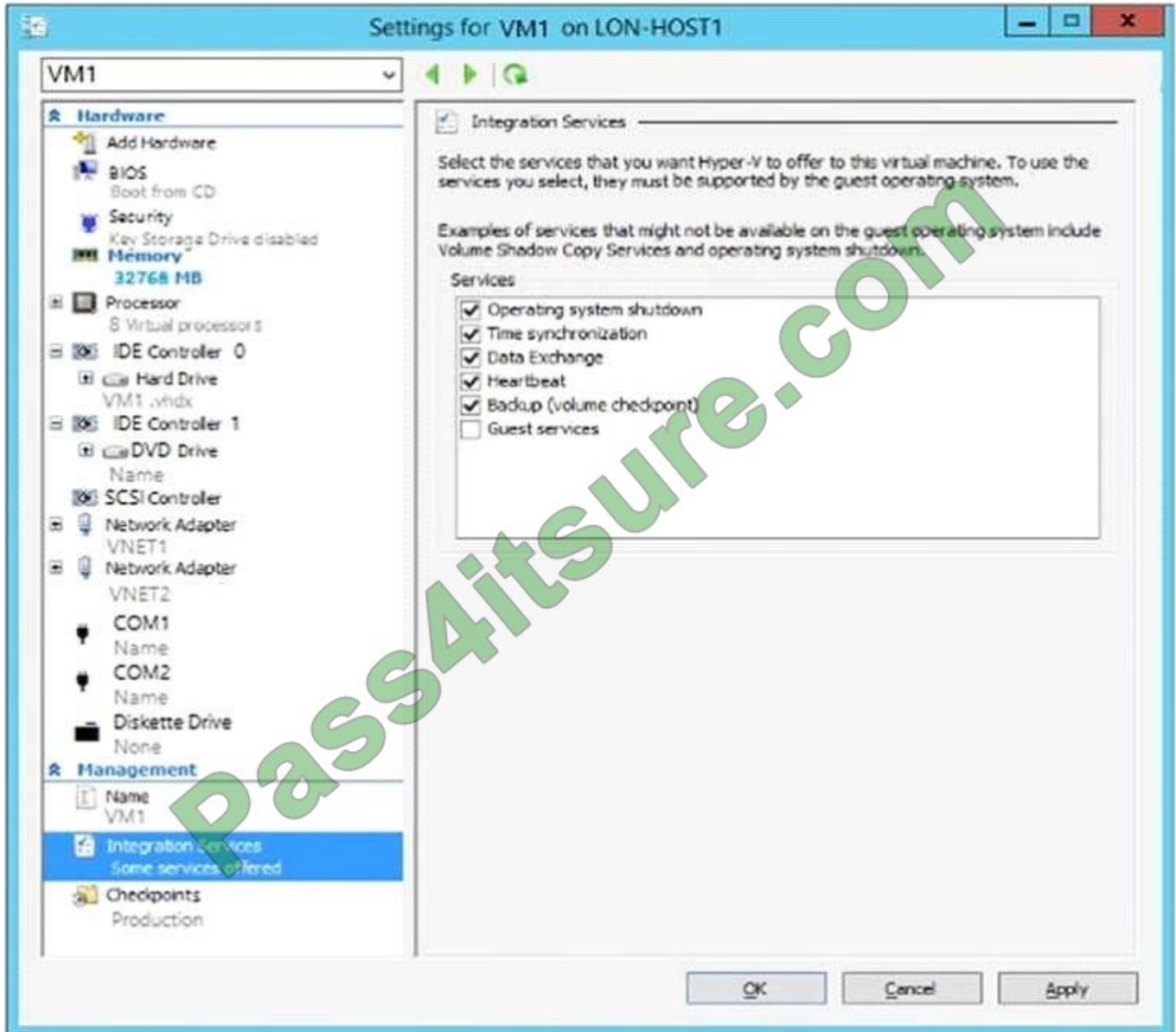
References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-export-template>

QUESTION 8

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

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.

References:

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

QUESTION 9

You have an on-premises data center and an Azure subscription. The data center contains two VPN devices. The subscription contains an Azure virtual network named VNet1. VNet1 contains a gateway subnet.

You need to create a site-to-site VPN. The solution must ensure that if a single instance of an Azure VPN gateway fails, or a single on-premises VPN device fails, the failure will not cause an interruption that is longer than two minutes.

What is the minimum number of public IP addresses, virtual network gateways, and local network gateways required in Azure? To answer, select the appropriate options in the answer area;

NOTE: Each correct selection is worth one point.

Hot Area:

Public IP addresses:

Virtual network gateways:

Local network gateways:

Correct Answer:



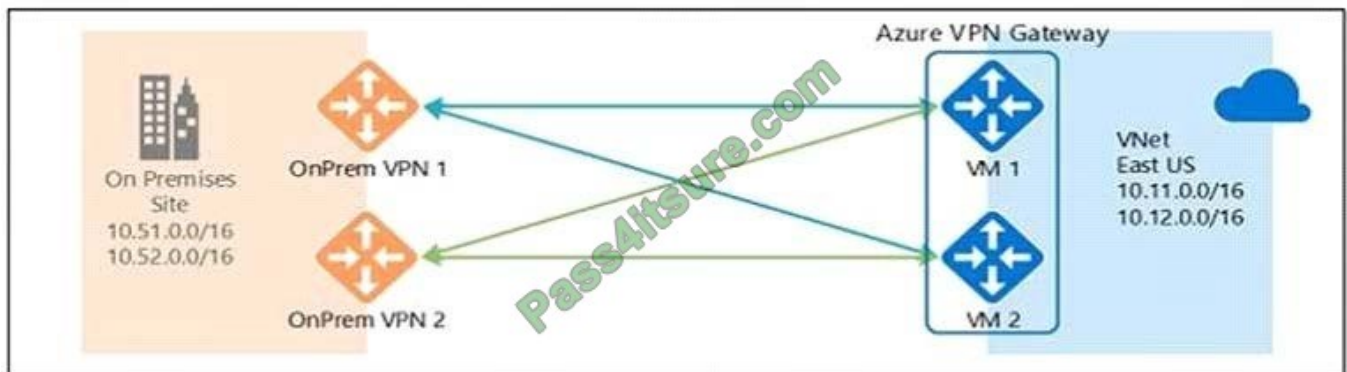
Public IP addresses:

Virtual network gateways:

Local network gateways:

Box 1: 4

Two public IP addresses in the on-premises data center, and two public IP addresses in the VNET. The most reliable option is to combine the active-active gateways on both your network and Azure, as shown in the diagram below.



Box 2: 2 Every Azure VPN gateway consists of two instances in an active-standby configuration. For any planned maintenance or unplanned disruption that happens to the active instance, the standby instance would take over (failover) automatically, and resume the S2S VPN or VNet-to-VNet connections. Box 3: 2 Dual-redundancy: active-active VPN gateways for both Azure and on-premises networks

References: <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-highlyavailable>

QUESTION 10

You have a Microsoft 365 subscription and a hybrid deployment of Azure Active Directory (Azure AD). User identities and password hashes are synced.

You have a user account named User1.

From Active Directory, you select the User must change password at next logon account option for User1.

What will occur if User1 attempts to sign in to myapps.microsoft.com?

A. User1 will be prompted for a password change.



- B. User1 will sign in by using the old password.
- C. User1 will be prevented from signing in.

Correct Answer: C

Troubleshoot password synchronization

Some users can't sign in to Office 365, Azure, or Microsoft Intune

In this scenario, passwords of most users appear to be syncing. However, there are some users whose passwords appear not to sync. The following are scenarios in which a user cannot sign in to a Microsoft cloud service such as Office 365,

Azure, or Intune. They include information about how to troubleshoot each scenario.

Scenario 1: The "User must change password at next logon" check box is selected for the user's account

To resolve this issue, follow these steps:

1.

Do one of the following:

In the user account properties in Active Directory Users and Computers, clear the User must change password at next logon check box.

Have the user change their on-premises user account password.

2.

Wait a few minutes for the change to sync between the on-premises Active Directory Domain Services (AD DS) and Azure AD.

References: <https://support.microsoft.com/en-us/help/2855271/how-to-troubleshoot-password-synchronization-when-using-an-azure-ad-sy>

QUESTION 11

You have an Azure subscription that contains a virtual network named VNet1. VNet 1 has two subnets named Subnet1 and Subnet2. VNet1 is in the West Europe Azure region. The subscription contains the virtual machines in the following table.

Name	Connected to
VM1	Subnet1
VM2	Subnet1
VM3	Subnet2

You need to deploy an application gateway named AppGW1 to VNet1. What should you do first?

- A. Add a service endpoint.
- B. Add a virtual network.



- C. Move VM3 to Subnet1.
- D. Stop VM1 and VM2.

Correct Answer: D

If you have an existing virtual network, either select an existing empty subnet or create a new subnet in your existing virtual network solely for use by the application gateway. Verify that you have a working virtual network with a valid subnet.

Make sure that no virtual machines or cloud deployments are using the subnet. The application gateway must be by itself in a virtual network subnet.

References:

<https://social.msdn.microsoft.com/Forums/azure/en-US/b09367f9-5d01-4cda-9127-b7a506a0a151/cant-create-application-gateway?forum=WAVirtualMachinesVirtualNetwork>

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-gateway>

QUESTION 12

Note This question is part of a series of questions that present the same scenario. 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 manage a virtual network named VNet1 that is hosted in the West US Azure region.

VNet1 hosts two virtual machines named VM1 and VM2 that run Windows Server. You need to inspect all the network traffic from VM1 to VM2 for a period of three hours.

Solution: From Performance Monitor, you create a Data Collector Set (DCS) Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

You should use Azure Network Watcher.

References: <https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview>



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