

# AZ-103<sup>Q&As</sup>

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 button.)

**Network Interface: interface1**    Effective security rules    Topology ⓘ

Virtual network/subnet: VMRD-vnet/default    Public IP: IP2    Private IP: 10.0.0.6

Accelerated networking: Disabled

**INBOUND PORT RULES ⓘ**

Network security group VM1-nsg (attached to network interface: interface1)

Impacts 0 subnets, 2 network interfaces

[Add inbound](#)

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINA...	ACTION
1000	default-allow-...	3389	TCP	Any	Any	✔ Allow ...
65000	AllowVnetInBound	Any	Any	VirtualN...	VirtualIN...	✔ Allow ...
65001	AllowAzureLoadB...	Any	Any	AzureLo...	Any	✔ Allow ...
65500	AllowAllInBound	Any	Any	Any	Any	✘ Deny ...

**OUTBOUND PORT RULES ⓘ**

Network security group VM1-nsg (attached to network interface: interface1)

Impacts 0 subnets, 2 network interfaces

[Add outbound](#)

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINA...	ACTION
65000	AllowVnetOutBo...	Any	Any	VirtualN...	VirtualIN...	✔ Allow ...
65001	AllowInternetOut...	Any	Any	Any	Internet	✔ Allow ...
65500	DenyAllOutBound	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. Start VM1.

- B. Attach a network interface.
- C. Delete the DenyAllOutBound outbound port rule.
- D. Delete the DenyAllInBound inbound port rule.

Correct Answer: A

Incorrect Answers:

- B: The network interface has already been added to VM.
- C: The Outbound rules are fine.
- D: The inbound rules are fine. Port 3389 is used for Remote Desktop.

Note: 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. As a result, any rules that exist with lower priorities (higher numbers) that have the same attributes as rules with higher priorities are not processed.

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

## QUESTION 2

Your network contains an Active Directory domain named contoso.com that is synced to an Azure Active Directory (Azure AD) tenant named contoso.onmicrosoft.com. The tenant contains only default domain names. The domain contains the users shown in the following table.

Name	Distinguished name
User1	CN=User1, DC=Contoso, DC=com
User2	CN=User2, DC=Contoso, DC=com
User3	CN=User3, DC=Contoso, DC=com

The users have value sets for their user account as shown in the following table.

Name	Telephone number	Home phone	Mobile phone
User1	222-555-1234	222-555-1235	222-555-2222
User2	null	null	null
User3	222-555-1234	222-555-1236	222-555-2223

You plan to enable Azure Multi-Factor Authentication (MFA) by using the following bulk update file named File1.

```
Username, MFA Status
CN=User1,DC=Contoso,DC=onmicrosoft,DC=com, Enabled
User2@Contoso.com, Enabled
User3@Contoso.com, Enabled
```

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:

## Answer Area

Statements	Yes	No
To successfully enable Azure MFA for User1, you must change the second line of File1 to:User1@contoso.com, Enabled	<input type="radio"/>	<input type="radio"/>
To successfully enable Azure MFA for User2, you must add a mobile phone number to the user account of User2.	<input type="radio"/>	<input type="radio"/>
To successfully enable Azure MFA for User3, you must change the fourth line of File1 to:User3@contoso.onmicrosoft.com, Enabled	<input type="radio"/>	<input type="radio"/>

Correct Answer:

## Answer Area

Statements	Yes	No
To successfully enable Azure MFA for User1, you must change the second line of File1 to:User1@contoso.com, Enabled	<input checked="" type="radio"/>	<input type="radio"/>
To successfully enable Azure MFA for User2, you must add a mobile phone number to the user account of User2.	<input checked="" type="radio"/>	<input type="radio"/>
To successfully enable Azure MFA for User3, you must change the fourth line of File1 to:User3@contoso.onmicrosoft.com, Enabled	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

Box 2: Yes

Phone number is required for MFA.

Box 3: No

Phone number for User3 is already available.

Reference:

<https://docs.microsoft.com/en-us/office365/admin/security-and-compliance/set-up-multi-factor-authentication>

---

### QUESTION 3

You have an Azure Active Directory (Azure AD) tenant.

You have an existing Azure AD conditional access policy named Policy1. Policy1 enforces the use of Azure AD-joined devices when members of the Global Administrators group authenticate to Azure AD from untrusted locations.

You need to ensure that members of the Global Administrators group will also be forced to use multi-factor authentication when authenticating from untrusted locations.

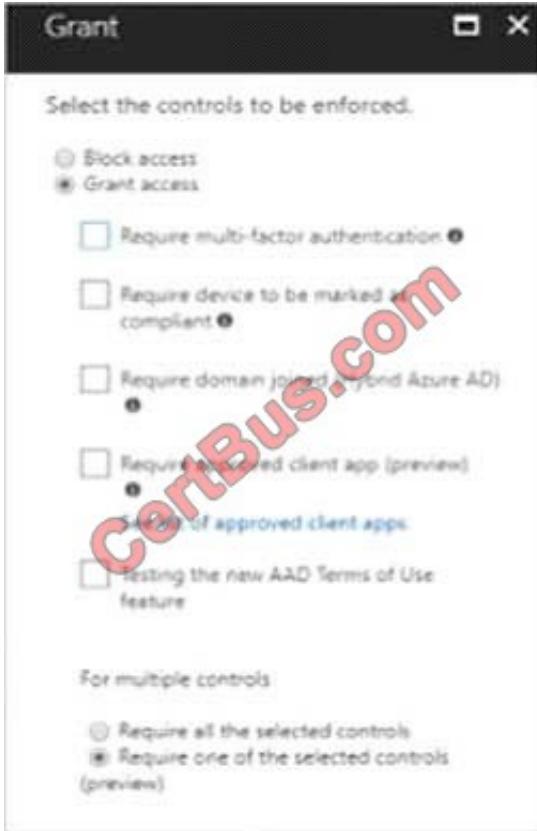
What should you do?

- A. From the multi-factor authentication page, modify the service settings.
- B. From the multi-factor authentication page, modify the user settings.
- C. From the Azure portal, modify grant control of Policy1.
- D. From the Azure portal, modify session control of Policy1.

Correct Answer: C

There are two types of controls: Grant controls - To gate access Session controls - To restrict access to a session Grant controls oversee whether a user can complete authentication and reach the resource that they're attempting to sign-in to. If you have multiple controls selected, you can configure whether all of them are required when your policy is processed. The current implementation of Azure Active Directory enables you to set the following grant control requirements:





References: <https://blog.lumen21.com/2017/12/15/conditional-access-in-azure-active-directory/>

**QUESTION 4**

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:

**Answer Area**

You can use [answer choice] for Azure Table Storage.

	▼
storageaccount1 only	
storageaccount2 only	
storageaccount3 only	
storageaccount1 and storageaccount2 only	
storageaccount2 and storageaccount3 only	

You can use [answer choice] for Azure Blob storage.

	▼
storageaccount3 only	
storageaccount2 and storageaccount3 only	
storageaccount1 and storageaccount3 only	
all the storage accounts	

Correct Answer:

**Answer Area**

You can use [answer choice] for Azure Table Storage.

▼
storageaccount1 only
storageaccount2 only
storageaccount3 only
storageaccount1 and storageaccount2 only
storageaccount2 and storageaccount3 only

You can use [answer choice] for Azure Blob storage.

▼
storageaccount3 only
storageaccount2 and storageaccount3 only
storageaccount1 and storageaccount3 only
all the storage accounts

Box 1: storageaccount1 and storageaccount2 only

Box 2: All the storage accounts

Note: The three different storage account options are: General-purpose v2 (GPv2) accounts, General-purpose v1 (GPv1) accounts, and Blob storage accounts.

General-purpose v2 (GPv2) accounts are storage accounts that support all of the latest features for blobs, files, queues, and tables.

Blob storage accounts support all the same block blob features as GPv2, but are limited to supporting only block blobs.

General-purpose v1 (GPv1) accounts provide access to all Azure Storage services, but may not have the latest features or the lowest per gigabyte pricing.

References: <https://docs.microsoft.com/en-us/azure/storage/common/storage-account-options>

**QUESTION 5**

**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:

**Answer Area**

The virtual machines that will be load balanced by using LB1 must:	<input type="checkbox"/>	be connected to the same virtual network.
	<input type="checkbox"/>	be created in the same resource group.
	<input type="checkbox"/>	be created in the same availability set or virtual machine scale set.
	<input type="checkbox"/>	run the same operating system.

The virtual machines that will be load balanced by using LB2 must:	<input type="checkbox"/>	be connected to the same virtual network.
	<input type="checkbox"/>	be created in the same resource group.
	<input type="checkbox"/>	be created in the same availability set or virtual machine scale set.
	<input type="checkbox"/>	run the same operating system.

Correct Answer:

**Answer Area**

The virtual machines that will be load balanced by using LB1 must:	<input type="checkbox"/>	be connected to the same virtual network.
	<input type="checkbox"/>	be created in the same resource group.
	<input checked="" type="checkbox"/>	be created in the same availability set or virtual machine scale set.
	<input type="checkbox"/>	run the same operating system.

The virtual machines that will be load balanced by using LB2 must:	<input checked="" type="checkbox"/>	be connected to the same virtual network.
	<input type="checkbox"/>	be created in the same resource group.
	<input type="checkbox"/>	be created in the same availability set or virtual machine scale set.
	<input type="checkbox"/>	run the same operating system.

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.

References:

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

**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 Active Directory (Azure AD) tenant named Adatum and an Azure Subscription contains a resource group named Dev.

Subscription1. Adatum contains a group named Developers. Subscription1. 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

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.

References: <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>

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## QUESTION 7

### SIMULATION

Please wait while the virtual machine loads. Once loaded, you may proceed to the lab section. This may take a few minutes, and the wait time will not be deducted from your overall test time.

When the Next button is available, click it to access the lab section. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality

(e.g, copy and paste, ability to navigate to external websites) will not be possible by design.

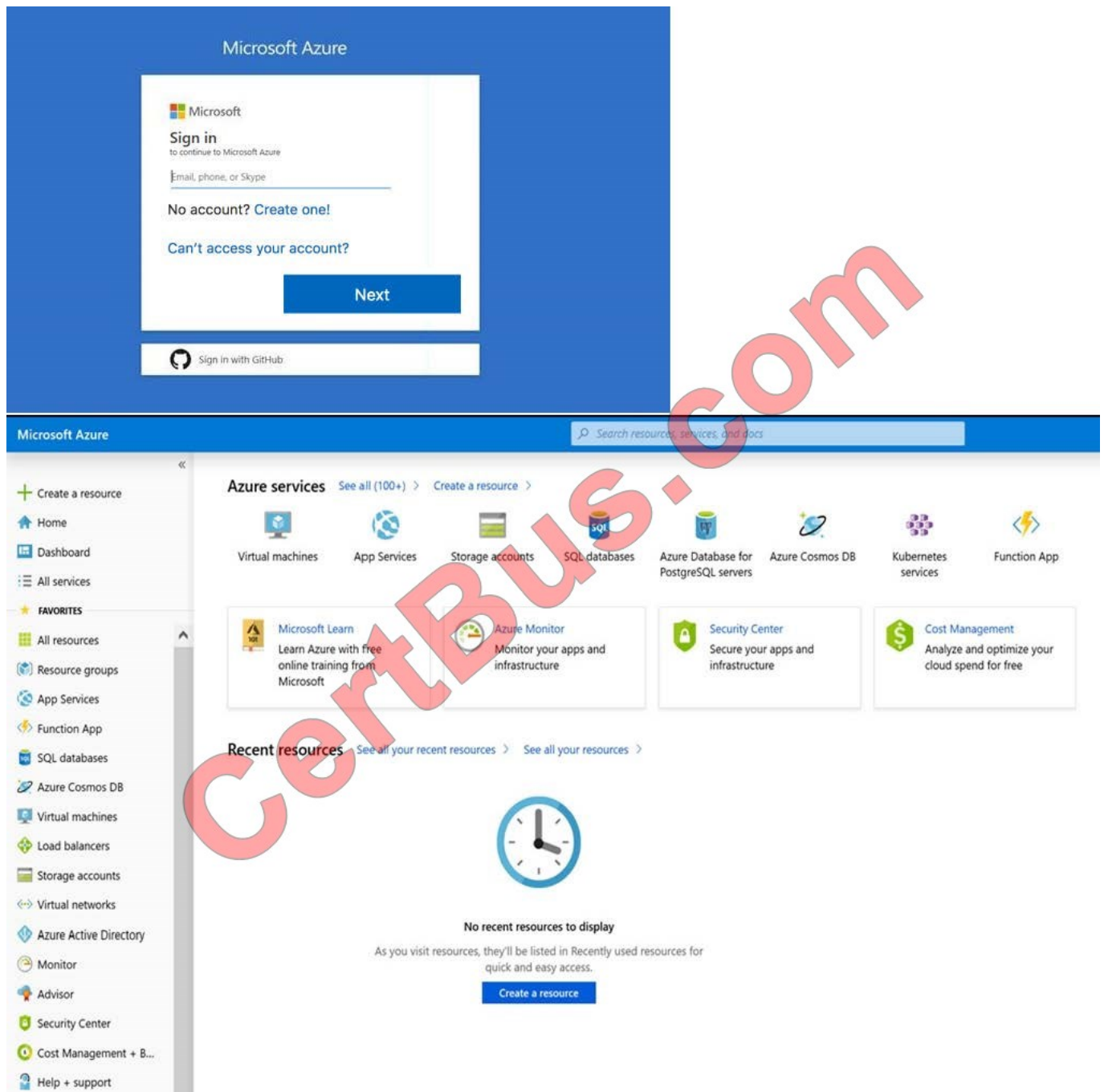
Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

Labs are not timed separately, and this exam may have more than one lab that you must complete. You can use as much time as you would like to complete each lab. But, you should manage your time appropriately to ensure that you are

able to complete the lab(s) and all other sections of the exam in the time provided.

Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

You may now click next to proceed to the lab.



### Task 3

You need to deploy two Azure virtual machines named VM1003a and VM1003b based on an Ubuntu Server image. The deployment must meet the following requirements:

Provide a Service Level Agreement (SLA) of 99.95 percent availability.

Use managed disks.

What should you do from the Azure portal?

A. See solution below.

Correct Answer: A

Step 1: Open the Azure portal.

Step 2: On the left menu, select All resources. You can sort the resources by Type to easily find your images.

Step 3: Select the image you want to use from the list. The image Overview page opens.

Step 4: Select Create VM from the menu.

Step 5: Enter the virtual machine information.

Select VM1003a as the name for the first Virtual machine.

The user name and password entered here will be used to log in to the virtual machine. When complete, select OK. You can create the new VM in an existing resource group, or choose Create new to create a new resource group to store the

VM.

Step 6: Select a size for the VM. To see more sizes, select View all or change the Supported disk type filter.

Step 7: Under Settings, make changes as necessary and select OK.

Step 8: On the summary page, you should see your image name listed as a Private image. Select Ok to start the virtual machine deployment.

Repeat the procedure for the second VM and name it VM1003b.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/create-vm-generalized-managed>

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## QUESTION 8

You have an Azure Active Directory (Azure AD) tenant that contains three global administrators named Admin1, Admin2, and Admin3.

The tenant is associated to an Azure subscription. Access control for the subscription is configured as shown in the Access control exhibit. (Click the Exhibit tab.)

+ Add Remove Roles Refresh Help

Name  Type  selected

Scope  Group by

5 items (4 Users, 1 Service Principals)

NAME	TYPE	ROLE	SCOPE
 Admin3 Admin3@contid...	User	Owner	Service administrat... This resource

You sign in to the Azure portal as Admin1 and configure the tenant as shown in the Tenant exhibit. (Click the Exhibit tab.)

Save Discard

Name

Country or region  
United States

Location  
United States datacenters

Notification language

Global admin can manage Azure Subscriptions and Management Groups  
 Yes  No

Directory ID

Technical contact

Global privacy contact

Privacy statement URL

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:

Statements	Yes	No
Admin1 can add Admin2 as an owner of the subscription.	<input type="radio"/>	<input type="radio"/>
Admin2 can add Admin1 as an owner of the subscription.	<input type="radio"/>	<input type="radio"/>
Admin2 can create a resource group in the subscription.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Statements	Yes	No
Admin1 can add Admin2 as an owner of the subscription.	<input checked="" type="radio"/>	<input type="radio"/>
Admin2 can add Admin1 as an owner of the subscription.	<input checked="" type="radio"/>	<input type="radio"/>
Admin2 can create a resource group in the subscription.	<input type="radio"/>	<input checked="" type="radio"/>

### QUESTION 9

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



### SCOPE

\* Scope (Learn more about setting the scope)

Subscription 1

Exclusions

Subscription 1/ContosoRG1

### BASICS

\* Policy definition

Not allowed resource types

\* Assignment name ⓘ

Not allowed resource types

Assignment ID

/subscriptions/3eb8d0b6-ce3b-4ce0-a631-9f5321bedabb/providers/Microsoft.Authorization/policyAssignments/0e6fb866b854f54accae2a9

Description

Assigned by:

admin1@contoso.com

### PARAMETERS

\* Not allowed resource types ⓘ

Microsoft.Sql/servers

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

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

### QUESTION 10

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: A

The Contributor role can manage all resources (and add resources) in a Resource Group.

**QUESTION 11**

You are creating an Azure load balancer.

You need to add an IPv6 load balancing rule to the load balancer.

How should you complete the Azure PowerShell script? To answer, select the appropriate options in the answer area.

Hot Area:

```
$rule1 = 

|                                             |
|---------------------------------------------|
| ▼                                           |
| Add-AzureRmLoadBalancerRuleConfig           |
| New-AzureRmLoadBalancerInboundNatRuleConfig |
| New-AzureRmLoadBalancerRuleConfig           |
| Set-AzureRmLoadBalancerRuleConfig           |

 -Name "HTTPv6" -FrontendIpConfiguration $FEConfigv6

-BackendAddressPool $backpoolipv6 -Probe $Probe -Protocol Tcp -FrontendPort 80 -Backendport 8080

New-AzureRmLoadBalancer -ResourceGroupName AdatumR0 -Name 'AdatumIPv6LB' -Location 'East US' -
FrontendIpConfiguration $FEConfigv6
-BackendAddressPool $backpoolipv6 -Probe $Probe 

|                    |
|--------------------|
| ▼                  |
| -InboundNatPool    |
| -InboundNatRule    |
| -LoadBalancingRule |

 $rule1
```

Correct Answer:

```

$rule1 = 

|                                             |
|---------------------------------------------|
| ▼                                           |
| Add-AzureRmLoadBalancerRuleConfig           |
| New-AzureRmLoadBalancerInboundNatRuleConfig |
| New-AzureRmLoadBalancerRuleConfig           |
| Set-AzureRmLoadBalancerRuleConfig           |

 -Name "HTTPv6" -FrontendIpConfiguration $FEConfigv6

-BackendAddressPool $backpoolipv6 -Probe $Probe -Protocol Tcp -FrontendPort 80 -Backendport 8080

New-AzureRmLoadBalancer -ResourceGroupName AdatumR0 -Name 'AdatumIPv6LB' -Location 'East US' -
FrontendIpConfiguration $FEConfigv6
-BackendAddressPool $backpoolipv6 -Probe $Probe 

|                    |
|--------------------|
| ▼                  |
| -InboundNatPool    |
| -InboundNatRule    |
| -LoadBalancingRule |

 $rule1
    
```

**QUESTION 12**

You have an Azure Service Bus.

You create a queue named Queue1. Queue1 is configured as shown in the following exhibit.

\* Name ⓘ

Queue1

Max queue size

1 GB ▼

Message time to live ⓘ

Days	Hours	Minutes	Seconds
0	2	0	0

Lock duration ⓘ

Days	Hours	Minutes	Seconds
0	0	5	0

Enable duplicate detection ⓘ

Enable dead lettering on message expiration ⓘ

Enable sessions ⓘ

Enable partitioning ⓘ

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:

If a message that has a TTL of four hours is written to Queue1 and is never read, the message will be

	▼
deleted after two hours	
deleted after four hours	
deleted after two hours and five minutes	
retained until manually deleted	

If a message that has a TTL of two hours is written to Queue1, and then read after one hour, the message will be

	▼
deleted immediately	
deleted in five minutes	
deleted in one hour	
retained until manually deleted	

Correct Answer:

If a message that has a TTL of four hours is written to Queue1 and is never read, the message will be

	▼
deleted after two hours	
deleted after four hours	
deleted after two hours and five minutes	
retained until manually deleted	

If a message that has a TTL of two hours is written to Queue1, and then read after one hour, the message will be

	▼
deleted immediately	
deleted in five minutes	
deleted in one hour	
retained until manually deleted	

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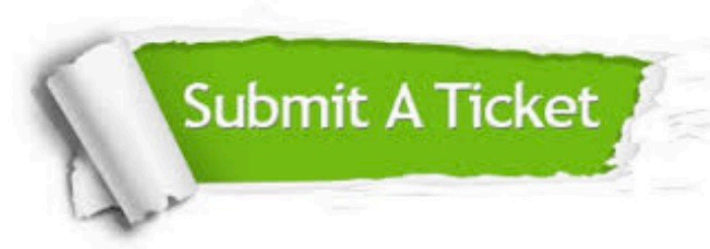
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