



Designing and Implementing Microsoft Azure Networking Solutions

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QUESTION 1

HOTSPOT

You configure a route table named RT1 that has the routes shown in the following table.

Name	Prefix	Next hop type	Next hop IP address
Route1	0.0.0/0	Network virtual appliance (NVA)	192.168.0.4
Route2	10.0.0/24	Network virtual appliance (NVA)	192.168.0.4

You have an Azure virtual network named Vnet1 that has the subnets shown in the following table.

Name	Prefix	Route table
DMZ	192.168.0.0/24	None
FrontEnd	192.168.1.0/24	RT1
BackEnd	192.168.2.0/24	None

You have the resources shown in the following table.

Name	IP address	Туре
NVA1	192.168.0.4	NVA
VM1	192.168.1.4	Virtual machine
VM2	192.168.2.4	Virtual machine

Vnet1 connects to an ExpressRoute circuit. The on-premises router advertises the following routes:

1.

0.0.0/0

2.

10.0.0/16

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
Internet traffic from NVA1 is routed to the on-premises network	0	0
Traffic from VM1 is routed to the on-premises network through NVA1	0	0
Traffic from VM1 is routed to VM2 though NVA1	0	0
Correct Answer:		
Statements	Yes	No
Internet traffic from NVA1 is routed to the on-premises network	0	0
Traffic from VM1 is routed to the on-premises network through NVA1	0	0
Traffic from VM1 is routed to VM2 though NVA1	0	0

Box 1: Yes

NVA1 with IP (NVA-network virtual appliance) 192.168.0.4 is on the DMZ subnet. It will use route 10.0.0/16 to the onpremises network.

Box 2: No

VM2 has IP address 192.168.2.4 and is on the BackEnd subnet. VM2 will not use the RT1 route table, and will not reach the on-premises network through NVA1.

Box 3: Yes

VM1 with IP address 192.168.1.4 is on the FrontEnd subnet, and will use the RT1 routing table. It will use Route2 and Next Hop IP address 192.168.0.4, IP address of NVA1, to reach VM2.

QUESTION 2

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



Name	In resource group	Location
Vnet1	RG1	West US
Vnet2	RG1	Central US
Vnet3	RG2	Central US
Vnet4	RG2	West US
Vnet5	RG3	East US

You plan to deploy an Azure firewall named AF1 to RG1 in the West US Azure region. To which virtual networks can you deploy AF1?

- A. Vnet1 and Vnet4 only
- B. Vnet1, Vnet2, Vnet3, and Vnet4
- C. Vnet1 only
- D. Vnet1 and Vnet2 only
- E. Vnet1, Vnet2, and Vnet4 only
- Correct Answer: C
- Azure Firewall operates in a single VNET.
- Azure Firewall is a regional service.
- Yes. Vnet1: Same VNET and same region.
- No. Vnet2: Same Resource Group but different VNET and different region. Must be in the same region.
- No. Vnet3: Different VNET, different region. Must be in the same region.
- No. Vnet4: Different VNET, same region.
- Reference:

https://docs.microsoft.com/en-us/azure/architecture/networking/guide/well-architected-framework-azure-firewall

QUESTION 3

You plan to deploy several virtual machines to subnet1-2.

You need to prevent all Azure hosts outside of subnet1-2 from connecting to TCP port 5585 on hosts on subnet1-2. The solution must minimize administrative effort.

To complete this task, sign in to the Azure portal.

A. See explanation below.

B. Placeholder



- C. Placeholder
- D. Placeholder
- Correct Answer: A

You can use a network security group to filter inbound and outbound network traffic to and from Azure resources in an Azure virtual network. Plan Stage 1: Create a network security group

Stage 2: Associate network security group to subnet Stage 3: Create security rule Stage 1: Create a network security group

A network security group (NSG) secures network traffic in your virtual network.

Step 1: From the Azure portal menu, select + Create a resource > Networking > Network security group, or search for Network security group in the portal search box.

Step 2: Select Create.

Step 3: On the Basics tab of Create network security group, enter or select this information:

Details omitted

Step 4: Select the Review + create tab, or select the blue Review + create button at the bottom of the page.

- Step 5: Select Create.
- Stage 2: Associate network security group to subnet
- In this section, you\\'ll associate the network security group with the subnet of the virtual network you created earlier.

Step 6: Search for myNsg (the name you give in stage 1) in the portal search box.

Step 7: Select Subnets from the Settings section of myNSG.



Home > myNSG

	+ Associate			
💎 Overview	✓ Search subnets			
Activity log	Name	↑ \downarrow Address range	\uparrow_{\downarrow} Virtual network	↑↓
Access control (IAM)	No results.			
🗳 Tags				
Diagnose and solve problems				
Settings				
📩 Inbound security rules				
Outbound security rules				
Network interfaces				
••> Subnets				
III Bronortios				
Properties				

Step 8: In the Subnets page, select + Associate:

Step 9: Under Associate subnet, select myVNet (the virtual network that is available) for Virtual network.

Step 10: Select subnet1-2 for Subnet, and then select OK.

Stage 3: Create security rule

Step 11: Select Inbound security rules from the Settings section of myNSG.

myNSG Inbound Network security group Search (Cmd+/) «	securit	y rules	 ide default rules 💍 Refresh 🗐	Delete					×
Overview Activity log Access control (IAM)	Po Fo	ilter by name rt == all Priority ↑↓	e Protocol == all Source = Name ↑↓	= all Port ↑↓	Destination == a Protocol ↑↓	II Action == all Source ↑↓	Destination ↑↓	Action ↑↓	
 Tags Diagnose and solve problems 		5000	AllowVnetInBound AllowAzureLoadBalancerInBound	Any	Any Any	VirtualNetwork AzureLoadBalancer	VirtualNetwork	 Allow Allow 	ÎI 向
Settings Inbound security rules Outbound security rules Network interfaces		55500	DenyAllInBound	Any	Any	Any	Any	8 Deny	Î



Step 12: In Inbound security rules page, select + Add:

Step 13: Create a security rule that blocks TCP port 5585 to the network security group you created earlier. In Add inbound security rule page, enter or select this information:

(You need to prevent all Azure hosts outside of subnet1-2 from connecting to TCP port 5585 on hosts on subnet1-2.)

Source: Leave the default of Any.

Source port ranges: Leave the default of (*).

Destination: Select Network security group.

Destination Network security groups: Select the network security group you created earlier.

Service: Leave the default of Custom.

Destination port ranges: Enter 5585

Protocol: Select TCP.

Action: Deny

Priority Leave the default of 100.

Name: Enter something



Add inbound security rule	×
туку	
ource ①	
Any	~
ource port ranges * ①	
*	
estination (i)	
Application security group	~
myAsgWebServers	~
Custom	~
actination part ranges *	1997) 1 1 1 1
80,443	~
rotocol	
TCP	
UDP	
) ICMP	
Allow	
Deny	
100	
ame * Allow-Web-All	
Description	





Step 14: Select Add.

Reference: https://learn.microsoft.com/en-us/azure/virtual-network/tutorial-filter-network-traffic

QUESTION 4

You need to ensure that the owner of VNET3 receives an alert if an administrative operation is performed in the virtual network.

To complete this task, sign in to the Azure portal.

- A. See explanation below.
- B. Placeholder
- C. Placeholder
- D. Placeholder

Monitoring Azure virtual network Alerts Azure Monitor alerts proactively notify you when important conditions are found in your monitoring data. They allow you to identify and address issues in your system before your customers notice them. You can set alerts on metrics, logs, and the activity log.

Create a new alert rule in the Azure portal

- Step 1: In the portal, select Monitor > Alerts.
- Step 2: Open the + Create menu and select Alert rule.

Correct Answer: A



«	Home > Monitor					
+ Create a resource	Monitor Alerts	\$ ···				
合 Home	Microsoft					
🕮 Dashboard	✓ Search (Ctrl+/) «	K + Create V III	Alert rules 😽 Action gr	roups 📧 Alert processing ru	les 📰 Columns Č	Refresh
All services	Overview	Alert rule				
* FAVORITES	Activity log	Action group	Time ra	nge : Past 24 hours +	Add filter	`
All resources	Alerts	Alert processing rule	Error Warning	Informational Verbose		
() Resource groups	má Metrics	1 273 67	199 0	0 7		
📀 App Services	P Logs			1. 1.		
🍜 Function App	Service Health				No grou	ping
👼 SQL databases	Workbooks	Name ↑↓	Severity ↑↓	Alert condition ↑↓	User response ↑↓	Fire
🧐 Azure Cosmos DB		High CPU alert n	nonito 1 - Error	A Fired	New	5/30
📮 Virtual machines	Insights	High CPU alert n	nonito 1 - Error	▲ Fired	New	5/30
🚸 Load balancers	Applications	Alert for all VMs	in sel···· 1 - Error	A Fired	New	5/30
Storage accounts	Virtual Machines	Alert for all VMs	in sel 1 - Error	A Fired	New	5/30
Virtual networks	Storage accounts	Contoso Custom	er Ch… 1 - Error	A Fired	New	5/30
Azure Active	lontainers	VMHealth monit	or 'ro… 1 - Error	A Fired	New	5/30
Monitor	Networks	Contoso Retail V	M Em… 1 - Error	A Fired	New	5/30
	🗟 SQL (preview)	Computers with	high 0 - Critical	A Fired	New	5/30
Microsoft Defender for	2 Azure Cosmos DB	Contoso Custom	er Ch… 1 - Error	A Fired	New	5/30
Cloud	📍 Key Vaults	Computers with	high 🚺 0 - Critical	A Fired	New	5/30
ዕ Cost Management + Billing	💙 Azure Cache for Redis	Computers with	high 0 - Critical	A Fired	New	5/30
Help + support	🔉 Azure Data Explorer Clusters	Contoso Retail V	M Em… 1 - Error	▲ Fired	New	5/30

Step 3: On the Select a resource pane, set the scope for your alert rule. You can filter by subscription, resource type, or resource location. We select Virtual Network.

The Available signal types for your selected resources are at the bottom right of the pane.

Step 4: Select Include all future resources to include any future resources added to the selected scope.

Step 5: Select Done.

Step 6: Select Next: Condition at the bottom of the page.

Step 7: On the Select a signal pane, filter the list of signals by using the signal type and monitor service:

*

Signal type: The type of alert rule you\\'re creating. We select Activity log

*

Monitor service: The service sending the signal. This list is pre-populated based on the type of alert rule you selected. We select Activity log – Administrative (The service that provides the Administrative activity log events)

Step 8: On the Actions tab, select to create the required action group.



Scope Condition Actions Details Tags	Review + create	
An action group is a set of actions that can be applied	to an alert rule. Learn more	
+ Add action groups + Create action group		
Action group name	Contains actions	
No action group selected yet		
Review + create Previous Next: D	betails >	

Step 9: Configure basic action group settings



Home > Alerts > Manage actions >						
Create action group						
_						
Basics Notifications Actions	Tags Review + create					
An action group invokes a defined set of r	notifications and actions when an alert is triggered. Learn more					
Project details						
Select a subscription to manage deployed all your resources.	resources and costs. Use resource groups like folders to organize and manage					
Subscription *	Contoso					
	Contara PG					
Resource group ~ ()	Create new					
Instance details						
Action group name * ①	Sample action group 🗸					
Display name * ①	Sample ag					
	This display name is limited to 12 characters					
Review + create Previous	Next: Notifications >					

Step 10: Configure notifications. To open the Notifications tab, select Next: Notifications. Alternately, at the top of the page, select the Notifications tab.

Step 11: Define a list of notifications to send when an alert is triggered. Notification: Email Azure Resource Manager Role Name: Notify Owner



Home > Alerts > Manage actions > Create action group	Email/SMS message/Push/Voice	×
Basics Notifications Actions Tags Review + create	Email Email * on-cal@contoso.com	
Configure the method in which users will be notified when the action group triggers. Select notification types, provide reciever details and add a unique description. This step is optional.	SMS (Carrier charges may apply) Country code 1	\sim
Notification type O Name O Selected O	Phone number	
Email/SMS message/Push/Voice V Notify on-call team V Email O 2 1 Email Azure Resource Manager Role Notify subscription owners Owner 2 12	Azure app Push Notifications	
	Voice Country code 1 Phone number	Ŷ
	Enable the common alert schema. Learn more Yes No	
Review + create Previous Next: Actions >	ox	

Step 12: Select OK.

Step 13: Finish the remaining steps in the wizard.

Reference: https://learn.microsoft.com/en-us/azure/virtual-network/monitor-virtual-network https://learn.microsoft.com/en-us/azure/azure/azure/azure-monitor/alerts/alerts-create-new-alert-rule?tabs=metric#create-a-new-alert-rule-in-the-azure-portal

QUESTION 5

You have an on-premises datacenter and an Azure subscription.

You plan to implement ExpressRoute FastPath.

You need to create an ExpressRoute gateway. The solution must minimize downtime if a single Azure datacenter fails.

Which SKU should you use?

- A. ErGw1AZ
- B. High performance
- C. Ultra performance
- D. ErGw3AZ
- E. ErGw2AZ
- Correct Answer: D

ErGw3Az and Ultra Performance SKU supports FastPath. ErGw3Az is Zone-redundant, but not Ultra Performance SKU.



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