



# Microsoft Azure Architect Technologies

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# **QUESTION 1**

You create an Azure Storage account named contosostorage.

You plan to create a file share named data.

Users need to map a drive to the data file share from home computers that run Windows 10.

Which outbound port should you open between the home computers and the data file share?

- A. 80
- B. 443
- C. 445
- D. 3389
- Correct Answer: C

Ensure port 445 is open: The SMB protocol requires TCP port 445 to be open; connections will fail if port 445 is blocked.

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

## **QUESTION 2**

You need to resolve the licensing issue before you attempt to assign the license again. What should you do?

- A. From the Directory role blade, modify the directory role
- B. From the Groups blade, invite the user accounts to a new group
- C. From the Profile blade, modify the usage location
- D. https://www.certbus.com/az-300.html

Correct Answer: C

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.

## **QUESTION 3**



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

Name	Contains
Storagecontoso1	A blob service and a table service
Storagecontoso2	A blob service and a file service
Storagecontoso3	A queue service
Storagecontoso4	A file service and a queue service
Storagecontoso5	A table service

You enable Azure Advanced Threat Protection (ATP) for all the storage accounts.

You need to identify which storage accounts will generate Azure ATP alerts.

Which two storage accounts should you identify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

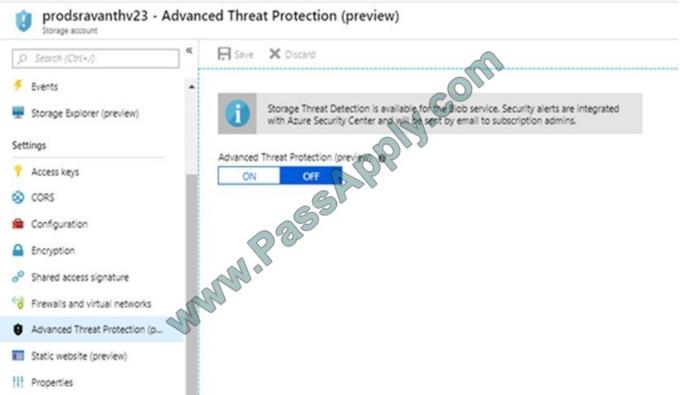
- A. storagecontoso1
- B. storagecontoso2
- C. storagecontoso3
- D. storagecontoso4
- E. storagecontoso5
- Correct Answer: AE

Example:

Storage Threat Detection is available for the Blob Service.



Home > prodsravanthv23 - Advanced Threat Protection (preview)



References: https://azure.microsoft.com/en-us/blog/advanced-threat-protection-for-azure-storage-now-in-public-preview/

## **QUESTION 4**

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

A rule already exists to scale up the App Service when the average queue length of unprocessed and valid queue messages is greater than 1000.

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

How should you configure the Scale rule? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



#### Answer Area

er Area	1	
	Scale Rule	х
	Metric source	
	Storage queue Service Bus queue Current resource	
	Storage queue(classic)	
	Resource type	
	Service Bus Namespaces V	
	Resource	
	MessageQueue1103 V	
	*Queues	
	itemqueue v	
	Criteria	
	*Metric name	
	Message Count Active Message Count	am
SOC	I minute the *Time grain statistic • Total Maximum Average Count *Operator Oreater than Greater than or equal to Less than Less than or equal to *Threshold 1000 Action *Operation Increase count by Increase count by Decrease count to *Instance count 1 *Cool down (minutes) •	
	5	
	UPDATE DELETE	



Correct Answer:



## Answer Area

	Scale Rule	X
	Metric source	
	Storage queue	
	Service Bus queue	
	Current resource Storage queue(classic)	
	Resource type	
	Service Bus Namespaces V	
	Resource	
	MessageQueue1103 ∨	
	*Queues	
	itemqueue v	
	Criteria	
	*Metric name	
	Message Count	
	Active Message Count	m
		COV
	1 minute th	ne gram
	*Time grain statistic	
	Total Maximum	
	Average	
	Count	
	*Operator	
~	Greater than	
ap	Greater than or equal to	
~	Less than Less than or equal to	-
	*Threshold	
		_
	1000	
	Action	
	*Operation	
	Increase count by	
	Increase count to Decrease count by	
	Decrease count by	
	*Instance count	
	1	
	*Cool down (minutes) 0	
	5	
	UPDATE DELETE	

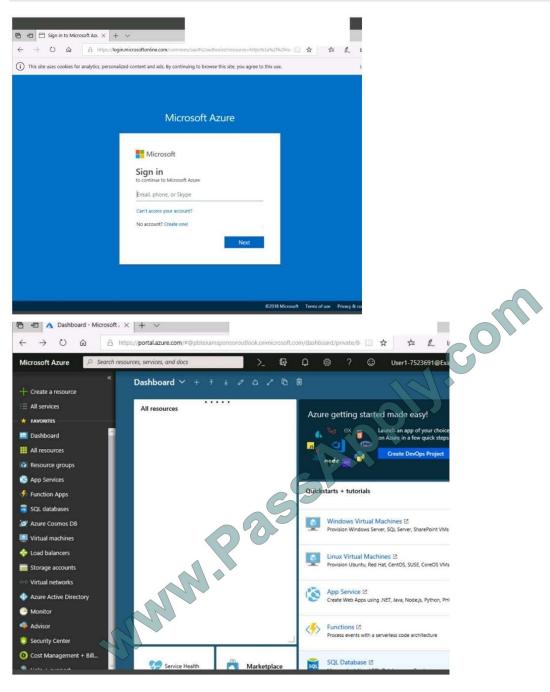


# **QUESTION 5**

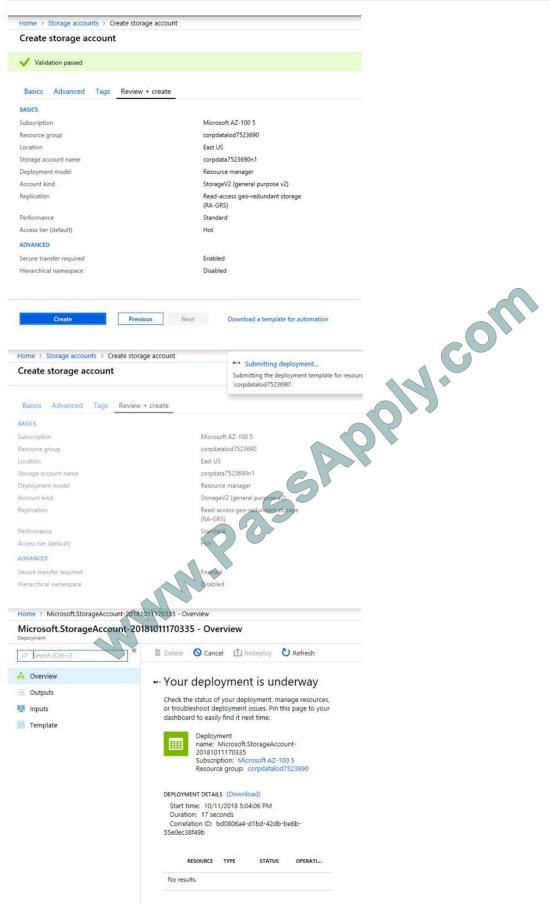
SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.











Home > Virtual machines > Create a virtual machine

# Create a virtual machine



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When you are finished performing all the tasks, click the `Next\\' button.

Note that you cannot return to the lab once you click the `Next\\' button. Scoring occur in the background while you complete the rest of the exam.

## Overview

The following section of the exam is a lab. 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.

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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.

To start the lab

You may start the lab by clicking the Next button.

You need to deploy an Azure load balancer named ib1016 to your Azure subscription. The solution must meet the following requirements:

Support the load balancing of IP traffic from the Internet to Azure virtual machines connected to VNET1016\subnet0.

Provide a Service Level Agreement (SLA) of 99,99 percent availability for the Azure virtual machines.

Minimize Azure-related costs.

What should you do from the Azure portal?

To complete this task, you do NOT need to wait for the deployment to complete. Once the deployment starts in Azure, you can move to the next task.

#### Correct Answer:

# **QUESTION 6**

You are developing a stateful service to deploy lo Azure Service Fabric. You plan to implement the RunAsync method.

You need to implement the methods to interface with an instance of the IReliable dictionary interface to increment a count each time the service is called. The first time the service is called, you must initialize the count to 1 if it does not yet

exist and then update it by one each time it is called.

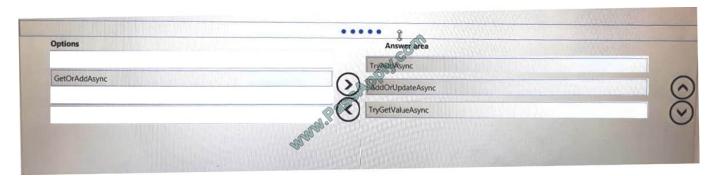
Which three methods should you run in sequence? To answer, move the appropriate methods from the list of methods to the answer area and arrange them in the correct order.

Select and Place:

Options TryGetValueAsync	Answertea	
the second s	- Ma	
GetOrAddAsync	68	
TryAddAsync		
AddOrUpdateAsync	Support of Co	

## Correct Answer:



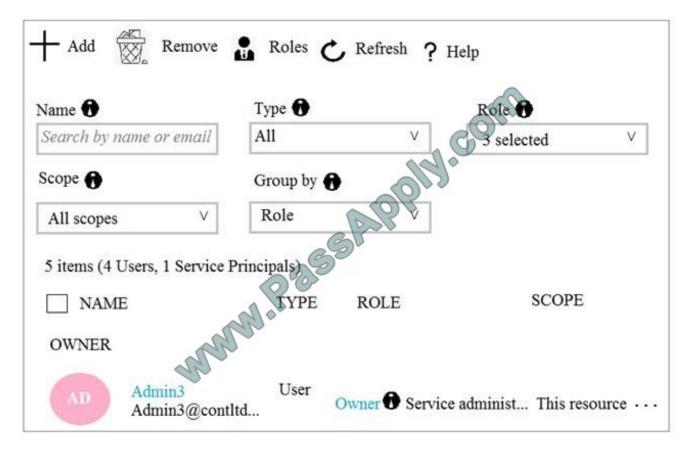


# **QUESTION 7**

# HOTSPOT

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.)



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



$\mathbb{H}$ Save $ imes$ Discard	
Name	
Contoso	
Country or region United States	
Location	
United States datacenters	
Notification language	CON
English	
Global admin can manage Azure Subscription	s and Management Groups
YES NO	
Directory ID	
a8ccb916-31f3-4582-b9b7-854f413d7177	
Technical contact	
Global privacy contact	
Privacy statement URL	

For each of the following statement, 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
Admin1 can add Admin2 as an owner of the subscription. Admin2 can add Admin1 as an owner of the subscription. Admin2 can create a resource group in the subscription.	000	000
Correct Answer:		
Statements	Yes	No
Admin1 can add Admin2 as an owner of the subscription. Admin2 can add Admin1 as an owner of the subscription. Admin2 can create a resource group in the subscription.	000	000

# **QUESTION 8**

You create the following Azure role definition.

{

"Name": "Role1",

"Id": "80808080-8080-8080-8080-80808080808080",

IsCustom : false,

"Description": "",

"Actions" : [

"Microsoft.Storage/\*/read",

"Microsoft.Network/\*/read",

"Microsoft.Compute/\*/read",

"Microsoft.Compute/virtualMachines/start/action",

"Microsoft.Compute/virtualMachines/restart/action",

"Microsoft.Authorization/\*/read"],

"NotActions": [],

"DataActions": [],



"NotDataActions": [],

"AssignableScopes": []

}

You need to create Role1 by using the role definition.

Which two values should you modify before you create Role1? Each correct answer presents part of solution.

NOTE: Each correct selection is worth one point.

A. IsCustom

B. DataActions

C. Id

D. AssignableScopes

E. Description

Correct Answer: AD

Part of example:

"IsCustom": true,

"AssignableScopes": [

"/subscriptions/{subscriptionId1}",

"/subscriptions/{subscriptionId2}",

"/subscriptions/{subscriptionId3}"

The following shows what a custom role looks like as displayed in JSON format. This custom role can be used for monitoring and restarting virtual machines.

{

"Name": "Virtual Machine Operator",

"IsCustom": true,

"Description": "Can monitor and restart virtual machines.",

"Actions": [

"Microsoft.Storage/\*/read",

"Microsoft.Network/\*/read",

"Microsoft.Compute/\*/read",



"Microsoft.Compute/virtualMachines/start/action", "Microsoft.Compute/virtualMachines/restart/action", "Microsoft.Authorization/\*/read", "Microsoft.ResourceHealth/availabilityStatuses/read", "Microsoft.Resources/subscriptions/resourceGroups/read", "Microsoft.Insights/alertRules/\*", "Microsoft.Insights/diagnosticSettings/\*", "Microsoft.Support/\*" "NotActions": [], "DataActions": [], "NotDataActions": [], "AssignableScopes": [ "/subscriptions/{subscriptionId1}", "/subscriptions/{subscriptionId2}", "/subscriptions/{subscriptionId3}"

References:

]

}

],

https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles

# **QUESTION 9**

You have two Azure Active Directory (Azure AD) tenants named contoso.com and fabrikam.com.

You have a Microsoft account that you use to sign in to both tenants.

You need to configure the default sign-in tenant for the Azure portal.

What should you do?

- A. From the Azure portal, configure the portal settings
- B. From the Azure portal, change the directory
- C. From Azure Cloud Shell, run Set-AzureRmContext



D. From Azure Cloud Shell, run Set-AzureRmSubscription

Correct Answer: B

Change the subscription directory in the Azure portal.

The classic portal feature Edit Directory, that allows you to associate an existing subscription to your Azure Active Directory (AAD), is now available in Azure portal. It used to be available only to Service Admins with Microsoft accounts, but

now it//'s available to users with AAD accounts as well.

To get started:

1.

Go to Subscriptions.

2.

Select a subscription.

3.

Select Change directory. Incorrect Answers:

C: The Set-AzureRmContext cmdlet sets authentication information for cmdlets that you run in the current session. The context includes tenant, subscription, and environment information.

References: https://azure.microsoft.com/en-us/updates/edit-directory-now-in-new-portal/

# **QUESTION 10**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution.

Determine whether the solution meets the stated goals.

You have the following resource groups:

Resource group	Comments
DevServer_WestCentralUS	This resource group is located in the West Central US region and contains a single virtual machine named DevServer. DevServer is connected to a private subnet in an Azure Virtual Network that has no internet access.
Workstation_EastUs	This resource group is located in the East US region and contains a virtual machine named DevWorkstation. DevWorkstation is connected to a subnet in a Virtual Network and is configured with a public IP address. A network security group has been configured to allow public incoming remote desktop protocol (RDP) connections to the DevWorkstation.



Developers must connect to DevServer only through DevWorkstation. To maintain security, DevServer must not accept connections from the internet.

You need to create a private connection between the DevWokstation and DevServer.

Solution: Configure a public IP address on DevServer\_WestCentral. Configure the Network Security Group to allow all incoming ports.

Does the solution meet the goal?

A. Yes

B. NO

Correct Answer: A

# **QUESTION 11**

You have a virtual network named VNet1 as shown in the exhibit. (Click the Exhibit tab.)

	Address space	
	DNS servers Azure provide DNS service	
	14-6	
70-9dcef70fb1ea	~0 <sup>0</sup>	
	Color Color	
	253	
·ka		
rices		
	70-9dcef70fb1ea	70-9dcef70fb1ea

### No devices are connected to VNet1.

You plan to peer VNet1 to another virtual network named VNet2 in the same region. VNet2 has an address space of 10.2.0.0/16.

You need to create the peering.

What should you do first?

- A. Add a gateway subnet to VNet1.
- B. Create a subnet on VNet1 and VNet2
- C. Modify the address space of VNet1



D. Configure a service endpoint on VNet2

Correct Answer: C

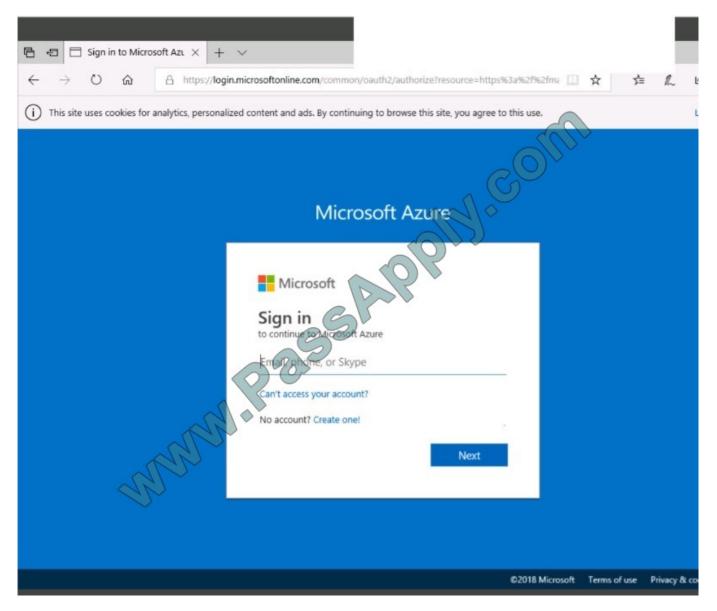
The virtual networks you peer must have non-overlapping IP address spaces. The exhibit indicates that VNet1 has an address space of 10.2.0.0/16, which is the same as VNet2, and thus overlaps. We need to change the address space for VNet1.

References: https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-constraints

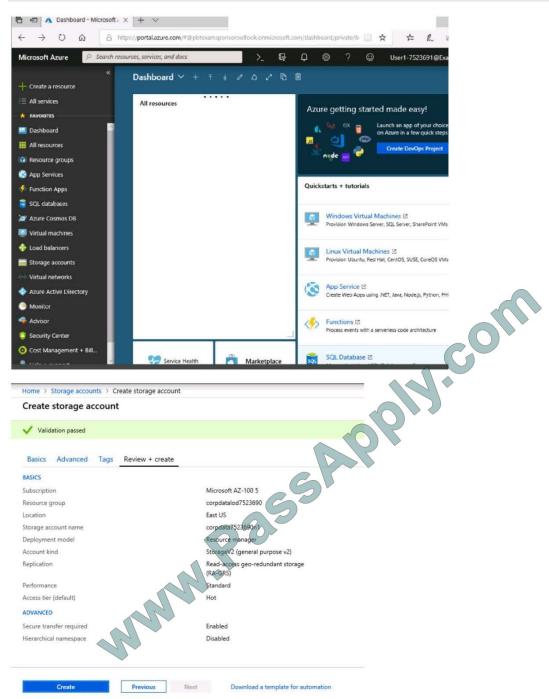
## **QUESTION 12**

## SIMULATION

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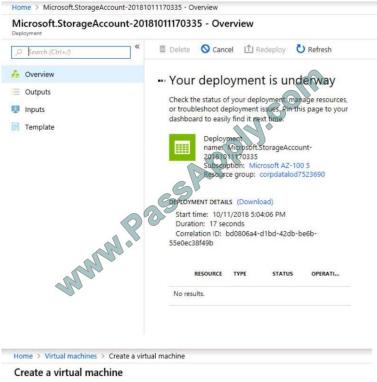


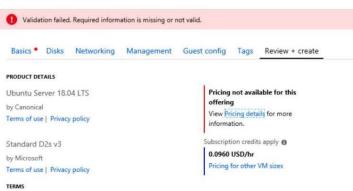






Home > Storage accounts > Create storage account	
Create storage account	<ul> <li>Submitting deployment</li> <li>Submitting the deployment template for resource 'corpdatalod7523690'.</li> </ul>
Basics Advanced Tags Review + create	
BASICS	
Subscription	Microsoft AZ-100 5
Resource group	corpdatalod7523690
Location	East US
Storage account name	corpdata7523690n1
Deployment model	Resource manager
Account kind	StorageV2 (general purpose v2)
Replication	Read-access geo-redundant storage (RA-GRS)
Performance	Standard
Access tier (default)	Hot
ADVANCED	
Secure transfer required	Enabled
Hierarchical namespace	Disabled





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To start the lab

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Another administrator attempts to establish connectivity between two virtual networks named VNET1 and VNET2. The administrator reports that connections across the virtual networks fail.

You need to ensure that network connections can be established successfully between VNET1 and VNET2 as quickly as possible.

What should you do from the Azure portal?

Correct Answer: See solution below.

You can connect one VNet to another VNet using either a Virtual network peering, or an Azure VPN Gateway.

To create a virtual network gateway

Step 1: In the portal, on the left side, click +Create a resource and type \\'virtual network gateway\\' in search. Locate Virtual network gateway in the search return and click the entry. On the Virtual network gateway page, click Create at the bottom of the page to open the Create virtual network gateway page.

Step 2: On the Create virtual network gateway page, fill in the values for your virtual network gateway.



Create virtual network gateway	
* Name	
Gateway type 🚯 VPN O ExpressRoute	
VPN type  Policy-based Policy-based	
* SKU 🔁	
VpnGw1	~
Enable active-active mode 0	
Virtual network	>
Create new Use existing	
<ul> <li>Configure public IP address</li> <li>SKU</li> <li>Assignment</li> <li>Dependent</li> <li>Static</li> </ul>	
Configure BGP ASN O	
* Subscription	
Windows Azure Internal Consumption	~
Resource group 🕚	
* Location 🚯	
	~
Create Automation options	



Name: Name your gateway. This is not the same as naming a gateway subnet. It\\'s the name of the gateway object you are creating.

Gateway type: Select VPN. VPN gateways use the virtual network gateway type VPN.

Virtual network: Choose the virtual network to which you want to add this gateway. Click Virtual network to open the \\'Choose a virtual network\\' page. Select the VNet. If you don\\'t see your VNet, make sure the Location field is pointing to the region in which your virtual network is located.

Gateway subnet address range: You will only see this setting if you did not previously create a gateway subnet for your virtual network. If you previously created a valid gateway subnet, this setting will not appear.

Step 4: Select Create New to create a Gateway subnet.

Add subnet	
* Name	
GatewaySubnet	
Address range (CIDR block) 0	DIP.
192.168.0.0/26	~
192.168.0.0 - 192.168.0.63 (59 + 5 Azure reserved addresses)	
Route table	>
None	
Service endpoints	
Services 0	
0 selected	~
Subnet delegation Delegate subnet to a service ①	
None	~

Step 5: Click Create to begin creating the VPN gateway. The settings are validated and you\\'ll see the "Deploying Virtual network gateway" tile on the dashboard. Creating a gateway can take up to 45 minutes. You may need to refresh your portal page to see the completed status.

References: https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-resource-manager-portal?

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