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AZ-303

Microsoft Azure Architect Technologies (beta)



CEplus

Question Set 1

QUESTION 1

You have an Azure subscription that contains 10 virtual machines on a virtual network.

You need to create a graph visualization to display the traffic flow between the virtual machines.

What should you do from Azure Monitor?

- A. From Activity log, use quick insights.
- B. From Metrics, create a chart.
- C. From Logs, create a new query.
- D. From Workbooks, create a workbook.

Correct Answer: C Section: [none] Explanation

Explanation/Reference:

Explanation:

Navigate to Azure Monitor and select Logs to begin querying the data

Reference: https://azure.microsoft.com/en-us/blog/analysis-of-network-connection-data-with-azure-monitor-for-virtual-machines/

QUESTION 2

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:

Correct Answer:

Section: [none] 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-redundancy <a hr

redundancy-zrs QUESTION 3 HOTSPOT

You plan to deploy an Azure virtual machine named VM1 by using an Azure Resource Manager template.

You need to complete the template.

What should you include in the template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

Within your template, the dependsOn element enables you to define one resource as a dependent on one or more resources. Its value can be a comma-separated list of resource names.

Box 1: 'Microsoft.Network/networkInterfaces'

This resource is a virtual machine. It depends on two other resources:

Microsoft.Storage/storageAccounts Microsoft.Network/networkInterfaces

Box 2: 'Microsoft.Network/virtualNetworks/'

The dependsOn element enables you to define one resource as a dependent on one or more resources. The resource depends on two other resources:

Microsoft.Network/publicIPAddresses Microsoft.Network/virtualNetworks

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```
resources": [
  "type": "Microsoft.Network/networkInterfaces",
  "name": "[variables('nicName')]",
  "location": "[parameters('location')]",
  "apiVersion": "2018-08-01",
   "dependsOn": [
    "[resourceId('Microsoft.Network/publicIPAddresses/', variables('publicIPAddressName'))]",
    "[resourceId('Microsoft.Network/virtualNetworks/', variables('virtualNetworkName'))]"
   "properties": {
    "ipConfigurations": [
        "name": "ipconfig1",
        "properties": {
          "privateIPAllocationMethod": "Dynamic",
          "publicIPAddress": {
            "id": "[resourceId('Microsoft.Network/publicIPAddresses', variables('publicIPAddressName'))]"
          "subnet": {
            "id": "[variables('subnetRef')]"
```

Reference: https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-tutorial-create-templates-with-dependent-resources

QUESTION 4 HOTSPOT

Your network contains an Active Directory domain named adatum.com and an Azure Active Directory (Azure AD) tenant named adatum.onmicrosoft.com.

Adatum.com contains the user accounts in the following table.

Name	Member of	
User1 Domain Admins		
User2	Schema Admins	
User3	Incoming Forest Trust Builders	
User4 Replicator		
User5	Enterprise Admins	

Adatum.onmicrosoft.com contains the user accounts in the following table.



Name	Role
UserA	Global administrator
UserB	User administrator
UserC	Security administrator
UserD	Service administrator

You need to implement Azure AD Connect. The solution must follow the principle of least privilege.

Which user accounts should you use in Adatum.com and Adatum.onmicrosoft.com to implement Azure AD Connect? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] **Explanation**

Explanation/Reference:

Explanation:

Box 1: User5

In Express settings, the installation wizard asks for the following:

AD DS Enterprise Administrator credentials Azure AD Global Administrator credentials



The AD DS Enterprise Admin account is used to configure your on-premises Active Directory. These credentials are only used during the installation and are not used after the installation has completed. The Enterprise Admin, not the Domain Admin should make sure the permissions in Active Directory can be set in all domains.

Box 2: UserA

Azure AD Global Admin credentials are only used during the installation and are not used after the installation has completed. It is used to create the Azure AD Connector account used for synchronizing changes to Azure AD. The account also enables sync as a feature in Azure AD.

Reference: https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-accounts-permissions

QUESTION 5 You have an Azure subscription that contains 100 virtual machines.

You have a set of Pester tests in PowerShell that validate the virtual machine environment.

You need to run the tests whenever there is an operating system update on the virtual machines. The solution must minimize implementation time and recurring costs.

Which three resources should you use to implement the tests? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Automation runbook
- B. an alert rule
- C. an Azure Monitor query
- D. a virtual machine that has network access to the 100 virtual machinesE. an alert action group

Correct Answer: ABE



Section: [none] Explanation

Explanation/Reference:

Explanation:

AE: You can call Azure Automation runbooks by using action groups or by using classic alerts to automate tasks based on alerts.

B: Alerts are one of the key features of Azure Monitor. They allow us to alert on actions within an Azure subscription

Reference:

https://docs.microsoft.com/en-us/azure/automation/automation-create-alert-triggered-runbook

https://techsnips.io/snips/how-to-create-and-test-azure-monitor-alerts/?page=13

QUESTION 6 HOTSPOT

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

Name	Location
RG1	West US
RG2	East US

You create an Azure Resource Manager template named Template1 as shown in the following exhibit.





```
"$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
"contentVersion": "1.0.0.0",
"parameters": {
    "name": {
        "type": "String"
    "location": {
       "defaultValue": "westus",
        "type": "String"
},
"variables": {
          "location": "[resourceGroup().location]"
   },
"resources": [
        "type": "Microsoft.Network/publicIPAddresses",
        "apiVersion": "2019-11-01",
        "name": "[parameters('name')]",
        "location": "[variables('location')]",
        "sku"· 「
            "name": "Basic"
        },
        "properties": {
            "publicIPAddressVersion": "IPv4",
            "publicIPAllocationMethod": "Dynamic",
            "idleTimeoutInMinutes": 4,
            "ipTags": []
```



From the Azure portal, you deploy Template1 four times by using the settings shown in the following table.

Resource group	Name	Location
RG1	IP1	westus
RG1	IP2	westus
RG2	IP1	westus
RG2	IP3	westus

What is the result of the deployment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

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		com

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

QUESTION 7 HOTSPOT

You have an Azure subscription that contains multiple resource groups.

You create an availability set as shown in the following exhibit.





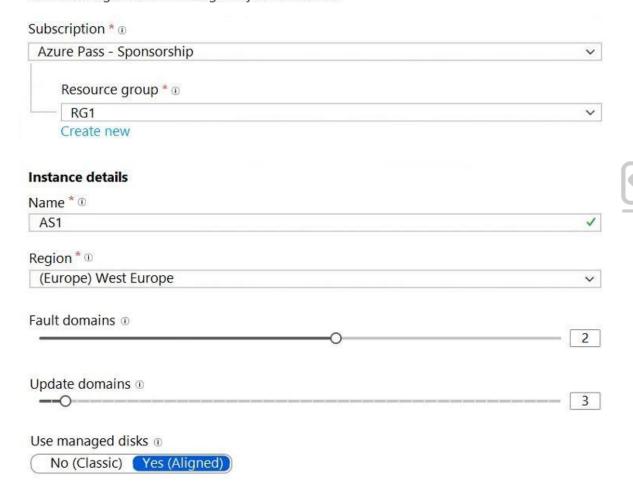
Create availability set



An Availability Set is a logical grouping capability for isolating VM resources from each other when they're deployed. Azure makes sure that the VMs you place within an Availability Set run across multiple physical servers, compute racks, storage units, and network switches. If a hardware or software failure happens, only a subset of your VMs are impacted and your overall solution stays operational. Availability Sets are essential for building reliable cloud solutions. Learn more about the availability sets.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.



You deploy 10 virtual machines to AS1.

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:

Correct Answer:

Section: [none]



Explanation

Explanation/Reference:

Explanation:

Box 1: 6

Two out of three update domains would be available, each with at least 3 VMs.

An update domain is a group of VMs and underlying physical hardware that can be rebooted at the same time.

As you create VMs within an availability set, the Azure platform automatically distributes your VMs across these update domains. This approach ensures that at least one instance of your application always remains running as the Azure platform undergoes periodic maintenance.

Box 2: the West Europe region and the RG1 resource group

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

QUESTION 8

You have an Azure subscription that contains an Azure Log Analytics workspace.

You have a resource group that contains 100 virtual machines. The virtual machines run Linux.

You need to collect events from the virtual machines to the Log Analytics workspace.

Which type of data source should you configure in the workspace?

A. Syslog

B. Linux performance counters

C. custom fields

Correct Answer: A Section: [none] Explanation



Explanation/Reference:

Explanation:

Syslog is an event logging protocol that is common to Linux. Applications will send messages that may be stored on the local machine or delivered to a Syslog collector. When the Log Analytics agent for Linux is installed, it configures the local Syslog daemon to forward messages to the agent. The agent then sends the message to Azure Monitor where a corresponding record is created.

Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-custom-logs

QUESTION 9

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



Nefresh
→ Move
Delete

Resource group (change)
Address space

Production
10.2.0.0/16

Location DNS servers

West US Azure provided DNS service

Subscription (change)
Production subscription

Subscription ID 14d26092-8e42-4ea7-b770-9dcef70fb1ea

Tags (change) Click here to add tags

Connected devices

→ Search connected devices



DEVICE TYPE IP ADDRESS SUBNET

No results.

No devices are connected to VNet1.

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

You need to create the peering.

What should you do first?

- A. Configure a service endpoint on VNet2.
- B. Add a gateway subnet to VNet1.
- C. Create a subnet on VNEt1 and VNet2.
- D. Modify the address space of VNet1.

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation

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.



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

QUESTION 10

HOTSPOT

```
You have an Azure Resource Manager template for a virtual machine named Template1. Template1 has the following parameters section.
"parameters": {
    "adminUsername": {
         "type": "string"
    "adminPassword": {
         "type": "securestring"
    },
    "dnsLabelPrefix": {
         "type": "string"
    "windowsOSVersion": {
         "type": "string",
         "defaultValues": "2016-Datacenter",
         "allowedValues": [
             "2016-Datacenter",
             "2019-Datacenter",
    },
    "location": {
         "type": "String",
         "allowedValues": [
             "eastus",
             "centralus",
             "westus" ]
```

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

AMMOORTAN			
	Statements	Yes	No
	When you deploy Template1, you are prompted for a resource group.	0	0
	When you deploy Template1, you are prompted for the Windows operating system version.	0	0
	When you deploy Template1, you are prompted for a location.	0	0
Ans	swer Area		
	Statements	Yes	No
	When you deploy Template1, you are prompted for a resource group.	0	0
	When you deploy Template1, you are prompted for the Windows operating system version.	0	0
	When you deploy Template1, you are prompted for a location.	0	0
ed.			

The Resource group is not specified.

Explanation:

Box 1: Yes

Section: [none] Explanation

Explanation/Reference:

Correct Answer:

Box 2: No

The default value for the operating system is Windows 2016 Datacenter.

Box 3: Yes

Location is no default value.

Reference: https://docs.microsoft.com/bs-latn-ba/azure/virtual-machines/windows/ps-template

QUESTION 11 You have an

Azure subscription.

You have 100 Azure virtual machines.

You need to quickly identify underutilized virtual machines that can have their service tier changed to a less expensive offering.

Which blade should you use?

A. Metrics



B. Customer sights

C. MonitorD. Advisor

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

Advisor helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. You can get cost recommendations from the Cost tab on the Advisor dashboard.

Reference: https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations

QUESTION 12 HOTSPOT

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

Name	Member of	
User1	Group1	
User2	Group2	

The tenant contains computers that run Windows 10. The computers are configured as shown in the following table.

Name	Member of	
Computer1	GroupA	
Computer2	GroupA	
Computer3	GroupB	



You enable Enterprise State Roaming in contoso.com for Group1 and GroupA.

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	
If User1 modifies the desktop background of Computer1, User1 will see the changed background when signing in to Computer3.	0	0	
If User2 modifies the desktop background of Computer1, User2 will see the changed background when signing in to Computer2.	0	0	
If User1 modifies the desktop background of Computer3, User1 will see the changed background when signing in to Computer2.	0	0	







Statements	Yes	No
If User1 modifies the desktop background of Computer1, User1 will see the changed background when signing in to Computer3.	0	0
If User2 modifies the desktop background of Computer1, User2 will see the changed background when signing in to Computer2.	0	0
If User1 modifies the desktop background of Computer3, User1 will see the changed background when signing in to Computer2.	0	0

Section: [none] Explanation

Explanation/Reference:

Explanation:

Enterprise State Roaming provides users with a unified experience across their Windows devices and reduces the time needed for configuring a new device.

Box 1: Yes

Box 2: No

Box 3: Yes

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 $\label{lem:rectory} \textbf{Reference:} \ \underline{\text{https://docs.microsoft.com/en-us/azure/////active-directory/devices/enterprise-state-roaming-overview}$

QUESTION 13

HOTSPOT

You have an Azure Resource Manager template named Template1 in the library as shown in the following exhibit.



```
1
 2
          "$schema": "https:/schema.management.azure.com/
      schemas/2015-01-01/deploymentTemplate.json#",
          "contentVersion": "1.0.0.0",
 3
 4
          "parameters": {},
          "resources":
 5
 6
              "apiVersion": "2016-01-01",
 7
 8
              "type": "Microsoft.Storage/storageAccounts",
              "name": "[concat(copyIndex(),'storage',
 9
      uniqueString(resourceGroup().id))]",
              "location": "[resourceGroup().location]",
10
11
              "sku": {
                "name": "Premium LRS"
12
13
              "kind": "Storage",
14
15
              "properties": {},
              "copy": {
16
17
                "name": "storagecopy",
                "count": 3,
18
                "mode": "Serial",
19
                "batchSize": 1
20
21
22
            }
23
24
25
       }
26
```



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

During the deployment of Template1, you can specify [answer choice].

the number of resources to deploy
the name of the resources to deploy
the resource group to which to deploy the resources
the permissions for the resources that will be deployed

Template1 deploys [answer choice].

a single storage account in one resource group
three storage accounts in one resource group
three resource groups that each has one storage account
three resource groups that each has three storage accounts

Correct Answer:

Answer Area

During the deployment of Template 1, you can specify [answer choice].

the number of resources to deploy
the name of the resources to deploy
the resource group to which to deploy the resources
the permissions for the resources that will be deployed

Template1 deploys [answer choice].

a single storage account in one resource group
three storage accounts in one resource group
three resource groups that each has one storage account
three resource groups that each has three storage accounts

.

Section: [none] Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/templ

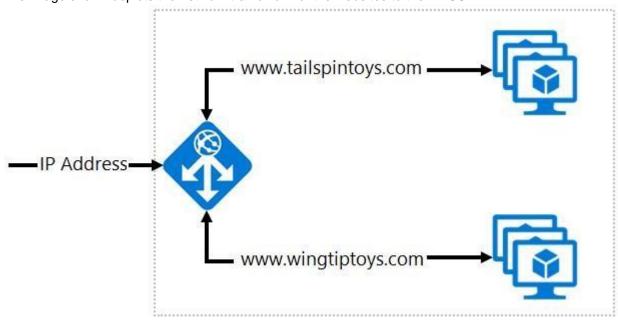
QUESTION 14 HOTSPOT

Your company hosts multiple websites by using Azure virtual machine scale sets (VMSS) that run Internet Information Server (IIS).



All network communications must be secured by using end to end Secure Socket Layer (SSL) encryption. User sessions must be routed to the same server by using cookie-based session affinity.

The image shown depicts the network traffic flow for the websites to the VMSS.



Use the drop-down menus to select the answer choice that answers each question.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



Which Azure solution should you create to route the web application traffic to the VMSS?

	▼
Azure VPN Gateway	-
Azure Application Gateway	
Azure ExpressRoute	
Azure Network Watcher	

What should you configure to make sure web traffic arrives at the appropriate server in the VMSS?

	٧
Routing rules and backend listeners	
CNAME and A records	
Routing method and DNS time to live (TTL)	
Path-based redirection and WebSockets	

Correct Answer:



Answer Area

Which Azure solution should you create to route the web application traffic to the VMSS?

Azure VPN Gateway
Azure Application Gateway
Azure ExpressRoute
Azure Network Watcher

What should you configure to make sure web traffic arrives at the appropriate server in the VMSS?

Routing rules and backend listeners
CNAME and A records
Routing method and DNS time to live (TTL)
Path-based redirection and WebSockets

Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: Azure Application Gateway

You can create an application gateway with URL path-based redirection using Azure PowerShell.



Box 2: Path-based redirection and Websockets

Reference:

https://docs.microsoft.com/bs-latn-ba/azure//application-gateway/tutorial-url-redirect-powershell

QUESTION 15

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	10.2.0.0/26	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:



Actions

On the peering connection in VNet2, allow gateway transit.

Recreate peering between VNet1 and VNet2.

Remove VNet1.

Create a new virtual network named VNet1.

On the peering connection in VNet1, allow gateway transit.

Add the 10.33.0.0/16 address space to VNet1.

Remove peering between VNet1 and VNet2.

Answer Area







Actions

On the peering connection in VNet2, allow gateway transit.

Recreate peering between VNet1 and VNet2.

Remove VNet1.

Create a new virtual network named VNet1.

On the peering connection in VNet1, allow gateway transit.

Add the 10.33.0.0/16 address space to VNet1.

Remove peering between VNet1 and VNet2.

Answer Area

Remove peering between VNet1 and VNet2.

Add the 10.33.0.0/16 address space to VNet1.

Recreate peering between VNet1 and VNet2.

Section: [none] Explanation

Explanation/Reference:

Explanation:

Step 1: Remove peering between Vnet1 and VNet2.

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 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 16 You have an Azure

App Service app.

You need to implement tracing for the app. The tracing information must include the following:

- Usage trends
- AJAX call responses
- Page load speed by browser
- Server and browser exceptions

What should you do?

A. Configure IIS logging in Azure Log Analytics.





- B. Configure a connection monitor in Azure Network Watcher.
- C. Configure custom logs in Azure Log Analytics.
- D. Enable the Azure Application Insights site extension.

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

For web pages, Application Insights JavaScript SDK automatically collects AJAX calls as dependencies.

Note: Some of the things you can track or collect are:

What are the most popular webpages in your application, at what time of day and where is that traffic coming from?

Dependency rates or response times and failure rates to find out if there's an external service that's causing performance issues on your app, maybe a user is using a portal to get through to your application and there are response time issues going through there for instance.

Exceptions for both server and browser information, as well as page views and load performance from the end users' side.

Reference:

https://azure.microsoft.com/en-us/blog/ajax-collection-in-application-insights/

https://blog.pragmaticworks.com/what-is-application-insights

QUESTION 17

HOTSPOT

You have an Azure subscription named Subscription1. Supscription1 contains the resources in the following table.

Name	Туре	
RG1	Resource group	
RG2	Resource group	
VNet1	Virtual network	
VNet2	Virtual network	



VNet1 is in RG1. VNet2 is in RG2. There is no connectivity between VNet1 and VNet2.

An administrator named Admin1 creates an Azure virtual machine named VM1 in RG1. VM1 uses a disk named Disk1 and connects to VNet1. Admin1 then installs a custom application in VM1.

You need to move the custom application to VNet2. The solution must minimize administrative effort.

Which two actions should you perform? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:



We cannot just move a virtual machine between networks. What we need to do is identify the disk used by the VM, delete the VM itself while retaining the disk, and recreate the VM in the target virtual network and then attach the original disk to it

Reference: https://blogs.technet.microsoft.com/canitpro/2014/06/16/step-by-step-move-a-vm-to-a-different-vnet-on-azure/
https://dsysops.com/archives/move-an-azure-vm-to-another-virtual-network-vnet/#migrate-an-azure-vm-between-vnets

QUESTION 18

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

Name	ne 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 Storage Advanced Threat Protection (ATP) for all the storage accounts.

You need to identify which storage accounts will generate Storage 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: AB Section: [none] Explanation

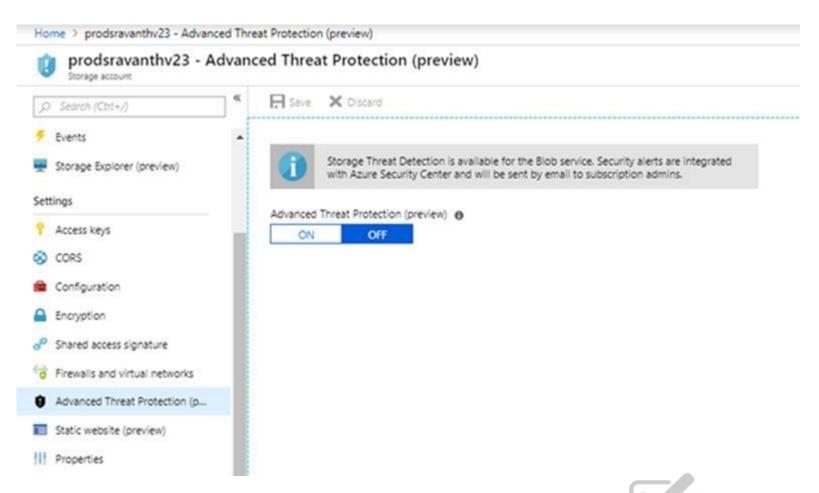
Explanation/Reference:

Explanation:

Storage Threat Detection is available for the Blob Service.







Reference:

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

QUESTION 19

HOTSPOT

You company has an Azure Container Registry named Registry1.

You have an Azure virtual machine named Server1 that runs Windows Server 2019.

From Server1, you create a container image named image1.

You need to add image1 to Registry1.

Which command should you run on Server1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

An Azure container registry stores and manages private Docker container images, similar to the way Docker Hub stores public Docker images. You can use the Docker command-line interface (Docker CLI) for login, push, pull, and other operations on your container registry.

Reference:



https://docs.microsoft.com/en-us/azure/container-registry/container-registry-get-started-docker-cli

https://docs.docker.com/engine/reference/commandline/push/

QUESTION 20

HOTSPOT

You are developing an Azure Web App. You configure TLS mutual authentication for the web app.

You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

QUESTION 21

DRAG DROP

You are designing a solution to secure a company's Azure resources. The environment hosts 10 teams. Each team manages a project and has a project manager, a virtual machine (VM) operator, developers, and contractors.

Project managers must be able to manage everything except access and authentication for users. VM operators must be able to manage VMs, but not the virtual network or storage account to which they are connected. Developers and contractors must be able to manage storage accounts.

You need to recommend roles for each member.

What should you recommend? To answer, drag the appropriate roles to the correct employee types. Each role 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.

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NOTE: Each correct selection is worth one point.

Select and Place:

Roles **Answer Area** Owner Role **Employee type** Role Contributor Project manager Role VM operators Reader Role Virtual Machine Contributor Developers Storage Account Contributor Role Contractors

Correct Answer:



Roles	Answer Area	
Owner	Employee type	Role
Contributor	Project manager	Contributor
Reader	VM operators	Virtual Machine Contributor
Virtual Machine Contributor	Developers	Storage Account Contributor
Storage Account Contributor	Contractors	Storage Account Contributor
		5

Section: [none] Explanation

Explanation/Reference:

QUESTION 22 You have an Azure virtual machine named VM1 and an Azure Active Directory (Azure AD) tenant named adatum.com.

VM1 has the following settings:

- IP address: 10.10.0.10
- System-assigned managed identity: On

You need to create a script that will run from within VM1 to retrieve the authentication token of VM1.

Which address should you use in the script?

- A. vm1.adatum.com.onmicrosoft.com
- B. 169.254.169.254
- C. 10.10.0.10
- D. vm1.adatum.com

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:

Your code that's running on the VM can request a token from the Azure Instance Metadata Service identity endpoint, accessible only from within the VM: http://169.254.169.254/metadata/identity/oauth2/token

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview

QUESTION 23

HOTSPOT



Your company has a virtualization environment that contains the virtualization hosts shown in the following table.

Name	Hypervisor	Guest
Server1	VMware	VM1, VM2, VM3
Server2	Hyper-V	VMA, VMB, VMC

The virtual machines are configured as shown in the following table.

Name	Generation	Memory	Operating system (OS)	OS disk	Data disk
VM1	Not applicable	4 GB	Windows Server 2016	200 GB	800 GB
VM2	Not applicable	12 GB	Red Hat Enterprise Linux 7.2	3 TB	200 GB
VM3	Not applicable	32 GB	Windows Server 2012 R2	200 GB	1 TB
VMA	1	8 GB	Windows Server 2012	100 GB	2 TB
VMB	1	16 GB	Red Hat Enterprise Linux 7.2	150 GB	з ТВ
VMC	2	24 GB	Windows Server 2016	500 GB	6 TB

All the virtual machines use basic disks. VM1 is protected by using BitLocker Drive Encryption (BitLocker).

You plan to migrate the virtual machines to Azure by using Azure Site Recovery.

You need to identify which virtual machines can be migrated.

Which virtual machines should you identify for each server? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

Incorrect Answers:

VM1 cannot be migrates as it has BitLocker enabled.

VM2 cannot be migrates as the OS disk on VM2 is larger than 2TB.

VMC cannot be migrates as the Data disk on VMC is larger than 4TB.

Reference: https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-support-matrix#azure-vm-requirements

QUESTION 24 You are designing an

Azure solution.

The solution must meet the following requirements:

■ Distribute traffic to different pools of dedicated virtual machines (VMs) based on rules. ■ Provide SSL offloading capabilities.

You need to recommend a solution to distribute network traffic.

Which technology should you recommend?

A. Azure Application Gateway





B. Azure Load Balancer

C. Azure Traffic Manager

D. server-level firewall rules

Correct Answer: A Section: [none] Explanation

Explanation/Reference:

Explanation:

If you require "SSL offloading", application layer treatment, or wish to delegate certificate management to Azure, you should use Azure's layer 7 load balancer Application Gateway instead of the Load Balanacer.

Incorrect Answers:

D: Because Load Balancer is agnostic to the TCP payload and TLS offload ("SSL") is not provided.

Reference: https://docs.microsoft.com/en-us/azure/application-gateway/overview





Testlet 2

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question. **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 severs 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.
- 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 admin for the Azure subscription.
- Admin1 must receive email alerts regarding service outages.
- Ensure that a new user named User3 can create network objects for the Azure subscription.

QUESTION 1 HOTSPOT

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:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Scenario: Move the existing product blueprint files to Azure Blob storage.

Scenario: Use unmanaged standard storage for the hard disks of the virtual machines.

Page blobs are optimized for writes at random locations within a blob. They also support Unmanaged Disks.

Scenario:

SQL Server Data Files in Microsoft Azure enables native support for SQL Server database files stored as blobs. It allows you to create a database in SQL Server running in on-premises or in a virtual machine in Microsoft Azure with a dedicated storage location for your data in Microsoft Azure Blob storage.

Box 2: No

Box 3: No

Reference

https://docs.microsoft.com/en-us/sql/relational-databases/databases/sql-server-data-files-in-microsoft-azure

Question Set 1

QUESTION 1

HOTSPOT

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

You need to create a conditional access policy that requires all users to use multi-factor authentication when they access the Azure portal.

Which three settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.





Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/app-based-mfa

QUESTION 2

You are implementing authentication for applications in your company. You plan to implement self-service password reset (SSPR) and multifactor authentication (MFA) in Azure Active Directory (Azure AD).

You need to select authentication mechanisms that can be used for both MFA and SSPR.

Which two authentication methods should you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Authenticator app
- B. Email addresses
- C. App passwords
- D. Short Message Service (SMS) messages
- E. Security questions

Correct Answer: AD Section: [none] Explanation

Explanation/Reference:

Explanation:

The following authentication mechanisms can be used for both MFA and SSPR:

- Short Message Service (SMS) messages
- Azure AD passwords
- Microsoft Authenticator app

Voice call

Incorrect Answers:

B, E: The following authentication mechanisms are used for SSPR only:

- Email addresses
- Security questions

E: App passwords authentication mechanisms can be used for MFA only, but only in certain cases.

Reference:

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

QUESTION 3

Your company has the groups shown in the following table.

Group	Number of members	
Managers	10	
Sales	100	
Development	15	

The company has an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com.





An administrator named Admin1 attempts to enable Enterprise State Roaming for all the users in the Managers groups.

Admin1 reports that the options for Enterprise State Roaming are unavailable from Azure AD.

You verify that Admin1 is assigned the Global administrator role.

You need to ensure that Admin1 can enable Enterprise State Roaming.

What should you do?

- A. Assign an Azure AD Privileged Identity Management (PIM) role to Admin1.
- B. Purchase an Azure Rights Management (Azure RMS) license for each user in the Managers group.
- C. Enforce Azure Multi-Factor Authentication (MFA) for Admin1.
- D. Purchase an Azure AD Premium P1 license for each user in the Managers group.

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

Enterprise State Roaming is available to any organization with an Azure AD Premium or Enterprise Mobility + Security (EMS) license.

Reference: https://docs.microsoft.com/bs-latn-ba/azure/active-directory/devices/enterprise-state-roaming-enable

QUESTION 4 HOTSPOT

You have an Azure Active Directory (Azure AD) tenant that contains the user groups shown in the following table.

Name	Role	Member of
User1	Global administrator	None
User2	User administrator	Group1
User3	Password administrator	Group1
User4	None	Group1



You configure the Notifications settings 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.

CEplus



Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Notify all admins when other admins reset their passwords: Yes.

Box 2: No

Notify users on password resets: No.

Box 3: No

Notify users on password resets

If this option is set to Yes, then users resetting their password receive an email notifying them that their password has been changed. The email is sent via the SSPR portal to their primary and alternate email addresses that are on file in Azure AD. No one else is notified of the reset event.

Notify all admins when other admins reset their passwords

If this option is set to Yes, then all administrators receive an email to their primary email address on file in Azure AD. The email notifies them that another administrator has changed their password by using SSPR.

Example: There are four administrators in an environment. Administrator A resets their password by using SSPR. Administrators B, C, and D receive an email alerting them of the password reset.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-sspr-howitworks

https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-enable-sspr



QUESTION 5 Your company has an

Azure subscription.

You enable multi-factor authentication (MFA) for all users.

The company's help desk reports an increase in calls from users who receive MFA requests while they work from the company's main office.

You need to prevent the users from receiving MFA requests when they sign in from the main office.

What should you do?

- A. From Conditional access in Azure Active Directory (Azure AD), create a named location.
- B. From the MFA service settings, create a trusted IP range.
- C. From Conditional access in Azure Active Directory (Azure AD), create a custom control.
- D. From Azure Active Directory (Azure AD), configure organizational relationships.

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:

The first thing you may want to do, before enabling Multi-Factor Authentication for any users, is to consider configuring some of the available settings. One of the most important features is a trusted IPs list. This will allow you to whitelist a range of IPs for your network. This way, when users are in the office, they will not get prompted with MFA, and when they take their devices elsewhere, they will. Here's how to do it:

Log in to your Azure Portal.

Navigate to Azure AD > Conditional Access > Named locations. From the top toolbar select Configure MFA trusted IPs.



Reference: https://www.kraftkennedy.com/implementing-azure-multi-factor-authentication/

QUESTION 6 HOTSPOT

You have an Azure logic app named App1 and an Azure Service Bus queue named Queue1.

You need to ensure that App1 can read messages from Queue1. App1 must authenticate by using Azure Active Directory (Azure AD).

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

On App1: Turn on the managed identity

To use Service Bus with managed identities, you need to assign the identity the role and the appropriate scope. The procedure in this section uses a simple application that runs under a managed identity and accesses Service Bus resources.

Once the application is created, follow these steps:

- 1. Go to Settings and select Identity.
- 2. Select the Status to be On.
- 3. Select Save to save the setting.

On Queue1: Configure Access Control (IAM)

Azure Active Directory (Azure AD) authorizes access rights to secured resources through role-based access control (RBAC). Azure Service Bus defines a set of built-in RBAC roles that encompass common sets of permissions used to access Service Bus entities and you can also define custom roles for accessing the data.

Assign RBAC roles using the Azure portal

In the Azure portal, navigate to your Service Bus namespace. Select Access Control (IAM) on the left menu to display access control settings for the namespace. If you need to create a Service Bus namespace. Select the Role assignments tab to see the list of role assignments. Select the Add button on the toolbar and then select Add role assignment.

Reference: https://docs.microsoft.com/en-us/azure/service-bus-messaging/authenticate-application

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-managed-service-identity

QUESTION 7 You have an application named App1 that does not support Azure Active Directory

(Azure AD) authentication.

You need to ensure that App1 can send messages to an Azure Service Bus queue. The solution must prevent App1 from listening to the queue.

What should you do?

- A. Configure Access control (IAM) for the Service Bus.
- B. Add a shared access policy to the queue.
- C. Modify the locks of the queue.
- D. Configure Access control (IAM) for the queue.

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:



There are two ways to authenticate and authorize access to Azure Service Bus resources: Azure Activity Directory (Azure AD) and Shared Access Signatures (SAS). Each Service Bus namespace and each Service Bus entity has a Shared Access Authorization policy made up of rules.

Reference:

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-authentication-and-authorization

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-sas

QUESTION 8 An administrator plans to create a function app in Azure that will have the following settings:

Runtime stack: .NET Core

Operating System: Linux

Plan type: Consumption

Enable Application Insights: Yes

You need to ensure that you can back up the function app.

Which settings should you recommend changing before creating the function app?

A. Runtime stack

B. Enable Application Insights

C. Operating System

D. Plan type

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

The Backup and Restore feature requires the App Service plan to be in the Standard, Premium or Isolated tier.

Reference: https://docs.microsoft.com/en-us/azure/app-service/manage-backup#requirements-and-restrictions

QUESTION 9 HOTSPOT

You have an Azure subscription.

You plan to deploy an app that has a web front end and an application tier.

You need to recommend a load balancing solution that meets the following requirements:

- Internet to web tier:
 - Provides URL-based routing
 - Supports connection draining
 - Prevents SQL injection attacks
- Web tier to application tier:
 - Provides port forwarding
 - Supports HTTPS health probes
 - Supports an availability set as a backend pool

Which load balancing solution should you recommend for each tier? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Internet to web tier:

An Azure Application Gateway that has a web application firewall (WAF)

An internal Azure Standard Load Balancer

A public Azure Basic Load Balancer

Web tier to application tier:

An Azure Application Gateway that has a web application firewall (WAF)

An internal Azure Standard Load Balancer

A public Azure Basic Load Balancer

Correct Answer:

Answer Area

An Azure Application Gateway that has a web application firewall (WAF)
An internal Azure Standard Load Balancer
A public Azure Basic Load Balancer

Web tier to application tier:

An Azure Application Gateway that has a web application firewall (WAF)
An internal Azure Standard Load Balancer
A public Azure Basic Load Balancer

Section: [none] Explanation Explanation/Reference: Explanation:

Box 1: An Azure Application Gateway that has a web application firewall (WAF)

Azure Application Gateway offers a web application firewall (WAF) that 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. SQL injection and cross-site scripting are among the most common attacks.

Application Gateway operates as an application delivery controller (ADC). It offers Secure Sockets Layer (SSL) termination, cookie-based session affinity, round-robin load distribution, content-based routing, ability to host multiple websites, and security enhancements.

Box 2: An internal Azure Standard Load Balancer

The internet to web tier is the public interface, while the web tier to application tier should be internal.

Note: When using load-balancing rules with Azure Load Balancer, you need to specify a health probes to allow Load Balancer to detect the backend endpoint status. Health probes support the TCP, HTTP, HTTPS protocols.

Reference: https://docs.microsoft.com/en-us/azure/application-gateway/waf-overview

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-custom-probe-overview



QUESTION 10

You have 10 Azure virtual machines on a subnet named Subnet1. Subnet1 is on a virtual network named VNet1.

You plan to deploy a public Azure Standard Load Balancer named LB1 to the same Azure region as the 10 virtual machines.

You need to ensure that traffic from all the virtual machines to the internet flows through LB1. The solution must prevent the virtual machines from being accessible on the internet.

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

NOTE: Each correct selection is worth one point.

- A. Add health probes to LB1.
- B. Add the network interfaces of the virtual machines to the backend pool of LB1.
- C. Add an inbound rule to LB1.
- D. Add an outbound rule to LB1.
- E. Associate a network security group (NSG) to Subnet1.
- F. Associate a user-defined route to Subnet1.

Correct Answer: ABD Section: [none] Explanation

Explanation/Reference:

Explanation:

A: To allow the Load Balancer to monitor the status of your app, you use a health probe. The health probe dynamically adds or removes VMs from the Load Balancer rotation based on their response to health checks.

B: To distribute traffic to the VMs, a backend address pool contains the IP addresses of the virtual (NICs) connected to the Load Balancer.

D: A Load Balancer rule is used to define how traffic is distributed to the VMs. Only outbound traffic is allowed.

Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/tutorial-load-balancer-standard-manage-portal2

QUESTION 11

You have SQL Server on an Azure virtual machine named SQL1.

You need to automate the backup of the databases on SQL1 by using Automated Backup v2 for the virtual machines. The backups must meet the following requirements:

- Meet a recovery point objective (RPO) of 15 minutes.
 Retain the backups for 30 days.
- Encrypt the backups at rest.

What should you provision as part of the backup solution?

- A. Elastic Database jobs
- B. Azure Key Vault
- C. an Azure Storage account
- D. a Recovery Services vault

Correct Answer: C Section: [none] Explanation

Explanation/Reference:

Explanation:

An Azure storage account is used for storing Automated Backup files in blob storage. A container is created at this location to store all backup files. The backup file naming convention includes the date, time, and database GUID.

Reference:



https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/automated-backup

QUESTION 12

You have an Azure subscription that contains an Azure key vault named KeyVault1 and the virtual machines shown in the following table.

Name	Connected to VNET1/Subnet1	
VM1		
VM2	VNET1/Subnet2	

KeyVault1 has an access policy that provides several users with Create Key permissions.

You need to ensure that the users can only register secrets in KeyVault1 from VM1.

What should you do?

- A. Create a network security group (NSG) that is linked to Subnet1.
- B. Configure the Firewall and virtual networks settings for KeyVault1.
- C. Modify the access policy for KeyVault1.
- D. Configure KeyVault1 to use a hardware security module (HSM).

Correct Answer: C Section: [none] Explanation

Explanation/Reference:

Explanation:

You grant data plane access by setting Key Vault access policies for a key vault.

Note 1: Grant our VM's system-assigned managed identity access to the Key Vault. 1. Select Access policies and click Add new.

- 2. In Configure from template, select Secret Management.
- 3. Choose Select Principal, and in the search field enter the name of the VM you created earlier. Select the VM in the result list and click Select.
- 4. Click OK to finishing adding the new access policy, and OK to finish access policy selection.

Note 2: Access to a key vault is controlled through two interfaces: the management plane and the data plane. The management plane is where you manage Key Vault itself. Operations in this plane include creating and deleting key vaults, retrieving Key Vault properties, and updating access policies. The data plane is where you work with the data stored in a key vault. You can add, delete, and modify keys, secrets, and certificates.

Reference: <a href="https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/tutorial-windows-vm-access-nonaad-https://docs.microsoft.com/en-us/azure/key-vault/general/secure-your-key-vault2

QUESTION 13

HOTSPOT

You have an Azure subscription named Subscription1 that contains a virtual network named VNet1.

You add the users in the following table.

User	Role	
User1	Owner	
User2	Security Admin	
User3	Network Contributor	

Which user can perform each configuration? To answer, select the appropriate options in the answer area.





NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

		1901
Add a subnet to VNet1:		
	User1 only	-
	User3 only	
	User1 and User3 only	
	User2 and User3 only	
	User1, User2, and User3	
Assign a user the Reader role to VNet1:		
	User1 only	
	User2 only	
	User3 only	
	User1 and User2 only	
	User2 and User3 only	
	User1, User2, and User3	

Correct Answer:

Answer Area



dd a subnet to VNet1:		
	User1 only	
	User3 only	
	User1 and User3 only	
	User2 and User3 only	
	User1, User2, and User3	

Assign a user the Reader role to VNet1:

	•
User1 only	
User2 only	
User3 only	
User1 and User2 only	
User2 and User3 only	
User1, User2, and User3	

Section: [none] Explanation



Explanation/Reference:

Explanation:

Box 1: User1 only.

User1: The Owner Role lets you manage everything, including access to resources.

Not User3: The Network Contributor role lets you manage networks, but not access to them.

Box 2: User1 and User2 only

The Security Admin role: In Security Center only: Can view security policies, view security states, edit security policies, view alerts and recommendations, dismiss alerts and recommendations.

Reference:

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

OUESTION 14

You have resources in three Azure regions. Each region contains two virtual machines. Each virtual machine has a public IP address assigned to its network interface and a locally installed application named App1.

You plan to implement Azure Front Door-based load balancing across all the virtual machines.

You need to ensure that App1 on the virtual machines will only accept traffic routed from Azure Front Door.

What should you implement?

- A. Azure Private Link
- B. service endpoints
- C. network security groups (NSGs) with service tags
- D. network security groups (NSGs) with application security groups

Correct Answer: C Section: [none] Explanation



Explanation:

Configure IP ACLing for your backends to accept traffic from Azure Front Door's backend IP address space and Azure's infrastructure services only. Refer the IP details below for ACLing your backend:

• Refer AzureFrontDoor.Backend section in Azure IP Ranges and Service Tags for Front Door's IPv4 backend IP address range or you can also use the service tag AzureFrontDoor.Backend in your network security groups.

Reference

https://docs.microsoft.com/en-us/azure/frontdoor/front-door-faq

QUESTION 15

You have an Azure key vault named KV1.

You need to ensure that applications can use KV1 to provision certificates automatically from an external certification authority (CA).

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

NOTE: Each correct selection is worth one point.

- A. From KV1, create a certificate issuer resource.
- B. Obtain the CA account credentials.
- C. Obtain the root CA certificate.
- D. From KV1, create a certificate signing request (CSR).
- E. From KV1, create a private key,

Correct Answer: CD Section: [none] Explanation

Explanation/Reference:

Explanation:





- C: Obtain the root CA certificate (step 4 in the picture below)
- D: From KV1, create a certificate signing request (CSR) (step 2 in the picture below)

Note

Creating a certificate with a CA not partnered with Key Vault

This method allows working with other CAs than Key Vault's partnered providers, meaning your organization can work with a CA of its choice.



The following step descriptions correspond to the green lettered steps in the preceding diagram.

- 1. In the diagram above, your application is creating a certificate, which internally begins by creating a key in your key vault.
- 2. Key Vault returns to your application a Certificate Signing Request (CSR).
- 3. Your application passes the CSR to your chosen CA.
- 4. Your chosen CA responds with an X509 Certificate.
- 5. Your application completes the new certificate creation with a merger of the X509 Certificate from your CA.

Reference:

https://docs.microsoft.com/en-us/azure/key-vault/certificates/certificate-scenarios

QUESTION 16

You create the following Azure role definition.



```
"Name": "Role1",
   "Id": "80808080-8080-8080-8080-808080808080",
   "IsCustom": false,
   "Description": "",
   "Actions": [
                       "Microsoft.Storage/*/read",
                       "Microsoft.Network/*/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 the solution.
NOTE: Each correct selection is worth one point.
A. AssignableScopes
B. Description
                                                                                       CEplus
C. DataActions
D. IsCustom
E. Id
Correct Answer: AD
Section: [none]
Explanation
Explanation/Reference:
Explanation:
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}"
]
```

Reference: https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles Testlet 2

Case study

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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 severs 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.

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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.
- 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 admin for the Azure subscription.
- Admin1 must receive email alerts regarding service outages.
- Ensure that a new user named User3 can create network objects for the Azure subscription.



QUESTION 1 You need to recommend an identity solution that meets the technical requirements.

What should you recommend?

- A. password hash synchronization and single sign-on (SSO)
- B. federated single sign-on (SSO) and Active Directory Federation Services (AD FS)
- C. Pass-thorough Authentication and single sign-on (SSO)
- D. cloud-only user accounts

Correct Answer: C Section: [none] Explanation

Explanation/Reference:

Explanation:

With Pass-through Authentication the on-premises passwords are never stored in the cloud in any form.

Scenario:

- Prevent user passwords or hashes of passwords from being stored in Azure.
- 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.

Reference

https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-pta



Question Set 1

QUESTION 1

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 server named Server1 that runs Windows Server 2019. Server1 is a container host.

You are creating a Dockerfile to build a container image.

You need to add a file named File1.txt from Server1 to a folder named C:\Folder1 in the container image.

Solution: You add the following line to the Dockerfile.

COPY File1.txt /Folder1/

You then build the container image.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: [none] Explanation

Explanation/Reference:

Explanation:

Copy is the correct command to copy a file to the container image.

Reference:

https://docs.docker.com/develop/develop-images/dockerfile_best-practices/#add-or-copy

https://docs.docker.com/engine/reference/builder/

QUESTION 2

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.

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You are creating a Dockerfile to build a container image.

You need to add a file named File1.txt from Server1 to a folder named C:\Folder1 in the container image.

Solution: You add the following line to the Dockerfile.

XCOPY File1.txt C:\Folder1\

You then build the container image.

Does this meet the goal?

A. Yes





B. No

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:

Copy is the correct command to copy a file to the container image. Furthermore, the root directory is specified as '/' and not as 'C:/'.

Reference

https://docs.docker.com/develop/develop-images/dockerfile best-practices/#add-or-copy

https://docs.docker.com/engine/reference/builder/

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.

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You need to add a file named File1.txt from Server1 to a folder named C:\Folder1 in the container image.

Solution: You add the following line to the Dockerfile.

ADD File1.txt C:/Folder1/

You then build the container image.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation

Copy is the correct command to copy a file to the container image. The ADD command can also be used. However, the root directory is specified as '/' and not as 'C:/'.

Reference

https://docs.docker.com/develop/develop-images/dockerfile_best-practices/#add-or-copy

https://docs.docker.com/engine/reference/builder/

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.

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





A user named Admin1 attempts to create an access review from the Azure Active Directory admin center and discovers that the Access reviews settings are unavailable. Admin1 discovers that all the other identity Governance settings are available.

Admin1 is assigned the User administrator, Compliance administrator, and Security administrator roles.

You need to ensure that Admin1 can create access reviews in contoso.com.

Solution: You create an access package.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:

You do not use access packages for Identity Governance. Instead use Azure AD Privileged Identity Management.

Note: PIM essentially helps you manage the who, what, when, where, and why for resources that you care about. Key features of PIM include:

Conduct access reviews to ensure users still need roles

Reference: https://docs.microsoft.com/en-us/azure/active-directory/governance/entitlement-management-overview

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.

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Admin1 is assigned the User administrator, Compliance administrator, and Security administrator roles.

You need to ensure that Admin1 can create access reviews in contoso.com.

Solution: You purchase an Azure Directory Premium P2 license for contoso.com.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:

Instead use Azure AD Privileged Identity Management.



Note: PIM essentially helps you manage the who, what, when, where, and why for resources that you care about. Key features of PIM include: • Conduct access reviews to ensure users still need roles

Reference: https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure

QUESTION 6

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Admin1 is assigned the User administrator, Compliance administrator, and Security administrator roles.

You need to ensure that Admin1 can create access reviews in contoso.com.

Solution: You assign the Global administrator role to Admin1.

Does this meet the goal?

A. Yes B. No

Correct Answer: B Section: [none] Explanation



Explanation/Reference:

Explanation:

Instead use Azure AD Privileged Identity Management.

Note: PIM essentially helps you manage the who, what, when, where, and why for resources that you care about. Key features of PIM include: Conduct access reviews to ensure users still need roles

Reference: https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure

QUESTION 7

Your network contains an on-premises Active Directory domain named contoso.com that contains a member server named Server1.

You have the accounts shown in the following table.

Name	Member of
CONTOSO\User1	Domain Admins
CONTOSO\User2	Domain Users
CONTOSO\User3	Enterprise Admin
SERVER1\User4	Users

You are installing Azure AD Connect on Server1.



You need to specify the account for Azure AD Connect synchronization. The solution must use the principle of least privilege.

Which account should you specify?

A. CONTOSO\User2 B. SERVER1\User4
C. CONTOSO\User1

D. CONTOSO\User3

Correct Answer: A Section: [none] Explanation

Explanation/Reference:

Explanation:

The default Domain User permissions are sufficient

 $\label{lem:reference:https://docs.microsoft.com/en-us/azure/active-directory/hybrid/reference-connect-accounts-permissions} \\$

QUESTION 8 HOTSPOT

A company runs multiple Windows virtual machines (VMs) in Azure.

The IT operations department wants to apply the same policies as they have for on-premises VMs to the VMs running in Azure, including domain administrator permissions and schema extensions.

You need to recommend a solution for the hybrid scenario that minimizes the amount of maintenance required.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: Join the VMs to a new domain controller VM in Azure

Azure provides two solutions for implementing directory and identity services in Azure:

- (Used in this scenario) Extend your existing on-premises Active Directory infrastructure to Azure, by deploying a VM in Azure that runs AD DS as a Domain Controller. This architecture is more common when the on-premises network and the Azure virtual network (VNet) are connected by a VPN or ExpressRoute connection.
- Use Azure AD to create an Active Directory domain in the cloud and connect it to your on-premises Active Directory domain. Azure AD Connect integrates your on-premises directories with Azure AD.

Box 2: Set up VPN connectivity.

This architecture is more common when the on-premises network and the Azure virtual network (VNet) are connected by a VPN or ExpressRoute connection.

Reference: https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/identity/

QUESTION 9

You have an Azure subscription that contains the web apps shown in the following table.





Name	Runtime stack	
WebApp1	Java SE	
WebApp2	Ruby 2.6	
WebApp3	Python 3.7	
WebApp4	ASP.NET V4.7	

For which web app can you configure a WebJob?

A. WebApp1

B. WebApp4

C. WebApp2

D. WebApp3

Correct Answer: B Section: [none] Explanation

Explanation/Reference:

Explanation:

Publishing a .NET Core WebJob to App Service from Visual Studio uses the same tooling as publishing an ASP.NET Core app.

Reference: <a href="https://docs.microsoft.com/en-us/azure/app-service/webjobs-dotnet-deploy-deploy-dotnet-deploy-dotnet-deploy-dotnet-deploy-dotnet-deploy-deploy-dotnet-deploy-dotnet-deploy-dotnet-deploy-

<u>vs</u>





Testlet 2

Case study

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Currently, Contoso uses multiple types of severs for business operations, including the following:

- File servers
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- 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.
- Prevent user passwords or hashes of passwords from being stored in Azure.



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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 admin for the Azure subscription.
- Admin1 must receive email alerts regarding service outages.
- Ensure that a new user named User3 can create network objects for the Azure subscription.

QUESTION 1 HOTSPOT

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:

Correct Answer:

Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: 3

One virtual network for every tier

Box 2: 1

Only one subnet for each tier, to minimize the number of open ports.

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:

- Move all the virtual machines for App1 to Azure.
- Minimize the number of open ports between the App1 tiers.

Question Set 1

QUESTION 1

The developers at your company request that you create databases in Azure Cosmos DB as shown in the following table.





Name	Requirement
	 Provides a throughput of 1,200 RU/s
CosmosDB1	Has multiple write regions
	Uses the Core (SQL) API
CarrageDD2	Provides a throughput of 800 RU/s
CosmosDB2	Uses the MongoDB API
	 Provides a throughput of 1,200 RU/s
CosmosDB3	Has only one write region
	Uses the Core (SQL) API
CosmosDRA	 Provides a throughput of 2,000 RU/s
CosmosDB4	Uses the MongoDB API

You need to create the Azure Cosmos DB databases to meet the developer request. The solution must minimize costs.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Create three Azure Cosmos DB accounts, one for the databases that use the Core (SQL) API, one for CosmosDB2, and one for CosmosDB4.
- B. Create two Azure Cosmos DB accounts, one for CosmosDB2 and CosmosDB4 and one for CosmosDB1 and CosmosDB3.
- C. Create one Azure Cosmos DB account for each database.
- D. Create three Azure Cosmos DB accounts, one for the databases that use the MongoDB API, one for CosmosDB1, and one for CosmosDB3.

Correct Answer: BD Section: [none] Explanation

Explanation/Reference:

Explanation:

Note:

Microsoft recommends using the same API for all access to the data in a given account.

One throughput provisioned container per subscription for SQL, Gremlin API, and Table accounts.

Up to three throughput provisioned collections per subscription for MongoDB accounts.

The throughput provisioned on an Azure Cosmos container is exclusively reserved for that container. The container receives the provisioned throughput all the time.

Incorrect Answers:

A: DB2 and DB4 can use the same account.

C: The most costly alternative.

Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/set-throughput#set-throughput-on-a-container

QUESTION 2

You have three Azure SQL Database servers shown in the following table.



Name	Resource group	Location
sqlserver1	RG1	West US
sqlserver2	RG1	West US
sqlserver3	RG2	West US
sqlserver4	RG1	West Europe
sqlserver5	RG2	West Europe

You plan to specify sqlserver1 as the primary server in a failover group.

Which servers can be used as a secondary server?

A. sqlserver4 and sqlserver5 only B. sqlserver2 and sqlserver3 only C. sqlserver1 and sqlserver3 only D. sqlserver2 and sqlserver4 only

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

The Resource Group must be the same.

The secondary server can have another location.

The secondary server cannot be the same as the primary server.

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-configure

QUESTION 3 You have two Azure SQL Database managed instances in different Azure regions.

You plan to configure the managed instances in an instance failover group.

What should you configure before you can add the managed instances to the instance failover group?

- A. an internal Azure Load Balancer instance that has managed instance endpoints in a backend pool
- B. Azure Private Link that has endpoints on two virtual networks
- C. an Azure Application Gateway that has managed instance endpoints in a backend poolD. a Site-to-Site VPN between the virtual networks that contain the instances

Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

For two managed instances to participate in a failover group, there must be either ExpressRoute or a gateway configured between the virtual networks of the two managed instances to allow network communication. You create the two VPN gateways and connect them.

- 1. Create the gateway for the virtual network of your primary managed instance using the Azure portal.
- 2. Create the gateway for the virtual network of your secondary managed instance using the Azure portal.
- 3. Create a bidirectional connection between the two gateways of the two virtual networks.

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/failover-group-add-instance-tutorial?tabs=azure-portal#4---create-a-primary-gateway

