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Microsoft Azure Administrator Exam

Microsoft AZ-104

Version Demo

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Topic Break Down

Topic	No. of Questions
Topic 2, New Update	467
Topic 3, Case Study 1	2
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Total	813

QUESTION NO: 1

You have an Azure subscription named Subscription1 that contains an Azure virtual network named VM1. VM1 is in a resource group named RG1.

VM1 runs services that will be used to deploy resources to RG1.

You need to ensure that a service running on VM1 can manage the resources in RG1 by using the identity of VM1.

What should you do first?

- A. From the Azure portal modify the Access control (IAM) settings of VM1.
- B. From the Azure portal, modify the Policies settings of RG1.
- C. From the Azure portal, modify the value of the Managed Service Identity option for VM1.
- D. From the Azure portal, modify the Access control (IAM) settings of RG1.

ANSWER: C**Explanation:**

A managed identity from Azure Active Directory allows your app to easily access other AAD-protected resources such as Azure Key Vault. The identity is managed by the Azure platform and does not require you to provision or rotate any secrets.

User assigned managed identities can be used on Virtual Machines and Virtual Machine Scale Sets.

References:

<https://docs.microsoft.com/en-us/azure/app-service/app-service-managed-service-identity>

QUESTION NO: 2

You have an Azure virtual machine named VM1.

The network interface for VM1 is configured as shown in the exhibit. (Click the Exhibit tab.)

You deploy a web server on VM1, and then created a secure website that is accessible by using the HTTPS protocol. VM1 is used as a web server only.

You need to ensure that users can connect to the website from the internet.

What should you do?

- A. Modify the action of Rule1.
- B. Change the priority of Rule6 to 100.
- C. For Rule4, change the protocol from UDP to Any.
- D. For Rule5, change the Action to Allow and change the priority to 401.

ANSWER: D**QUESTION NO: 3**

You have an Azure subscription that contains a virtual network named VNet1. VNet1 contains four subnets named Gateway, Perimeter, NVA, and Production.

The NVA subnet contains two network virtual appliances (NVAs) that will perform network traffic inspection between the Perimeter subnet and the Production subnet.

You need to implement an Azure load balancer for the NVAs. The solution must meet the following requirements:

- The NVAs must run in an active-active configuration that uses automatic failover.
- The load balancer must load balance traffic to two services on the Production subnet. The services have different IP addresses.

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

NOTE: Each correct selection is worth one point.

- A. Deploy a basic load balancer
- B. Deploy a standard load balancer
- C. Add two load balancing rules that have HA Ports and Floating IP enabled
- D. Add two load balancing rules that have HA Ports enabled and Floating IP disabled
- E. Add a frontend IP configuration, a backend pool, and a health probe
- F. Add a frontend IP configuration, two backend pools, and a health probe

ANSWER: B C F**Explanation:**

A standard load balancer is required for the HA ports.

Two backend pools are needed as there are two services with different IP addresses. Floating IP rule is used where backend ports are reused.

Incorrect Answers:

E: HA Ports are not available for the basic load balancer.

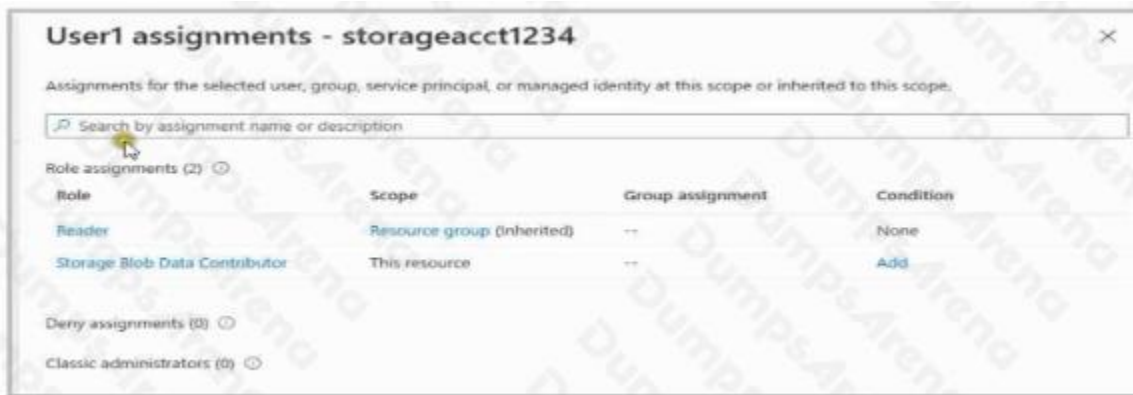
Reference:

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-overview> <https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-multivip-overview>

QUESTION NO: 4

You have an Azure subscription that contains a storage account named storageacct1234 and two users named User1 and User2.

You assign User1 the roles shown in the following exhibit.



Which two actions can User1 perform? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Modify the firewall of storageacct1234.
- B. View blob data in storageacct1234.
- C. View file shares in storageacct1234.
- D. Upload blob data to storageacct1234.
- E. Assign roles to User2 for storageacct1234.

ANSWER: D E

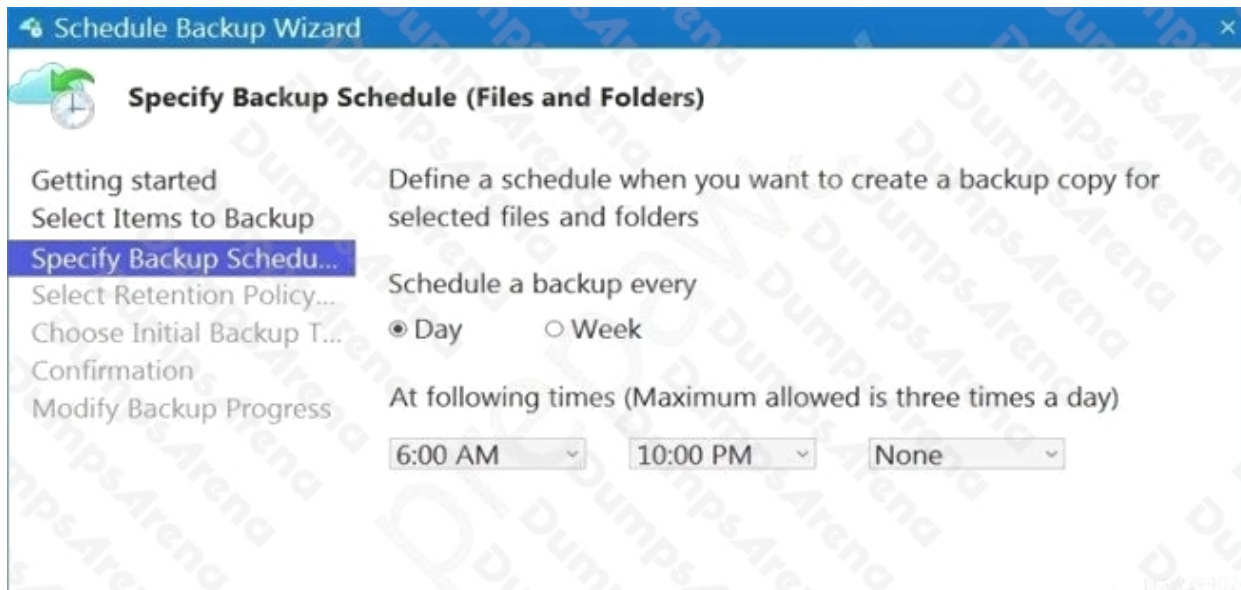
QUESTION NO: 5

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

Name	Type	Resource group	Location
Vault1	Recovery services vault	RG1	East US
VM1	Virtual machine	RG1	East US
VM2	Virtual machine	RG1	West US

All virtual machines run Windows Server 2016.

On VM1, you back up a folder named Folder1 as shown in the following exhibit.



You plan to restore the backup to a different virtual machine.

You need to restore the backup to VM2.

What should you do first?

- A. From VM1, install the Windows Server Backup feature.
- B. From VM2, install the Microsoft Azure Recovery Services Agent.
- C. From VM1, install the Microsoft Azure Recovery Services Agent.
- D. From VM2, install the Windows Server Backup feature.

ANSWER: B

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/backup/backup-azure-restore-windows-server>

QUESTION NO: 6

You need to deploy five virtual machines (VMs) to your company's virtual network subnet.

The VMs will each have both a public and private IP address. Inbound and outbound security rules for all of these virtual machines must be identical.

Which of the following is the least amount of network interfaces needed for this configuration?

- A. 5
- B. 10
- C. 20

D. 40

ANSWER: A

QUESTION NO: 7

You plan to deploy the resources shown in the following table.

Name	Type
IP1	Microsoft.Network/publicIPAddresses
NSG1	Microsoft.Network/networkSecurityGroups
VNET1	Microsoft.Network/virtualNetworks
NIC1	Microsoft.Network/networkInterfaces
VM1	Microsoft.Compute/virtualMachines

You need to create a single Azure Resource Manager (ARM) template that will be used to deploy the resources.

Which resource should be added to the depends On section for VM1?

- A. NIC 1
- B. VNET1
- C. NSG1
- D. IP1

ANSWER: A

QUESTION NO: 8

You have an Azure subscription that contains a storage account named account1.

You plan to upload the disk files of a virtual machine to account1 from your on-premises network. The on-premises network uses a public IP address space of 131.107.1.0/24.

You plan to use the disk files to provision an Azure virtual machine named VM1. VM1 will be attached to a virtual network named VNet1. VNet1 uses an IP address space of 192.168.0.0/24.

You need to configure account1 to meet the following requirements:

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

NOTE: Each correct selection is worth one point.

- A. From the Service endpoints blade of VNet1, add a service endpoint
- B. From the Networking blade of account1, add the 131.107.1.0/24 IP address range.
- C. From the Networking blade of account1, add VNet1.

- D. From the Networking blade of account1, select Selected networks.
- E. From the Networking blade of account1, select Allow trusted Microsoft services to access this storage account

ANSWER: B D

QUESTION NO: 9

You have an Azure subscription that contains a storage account named account1.

You plan to upload the disk files of a virtual machine to account1 from your on-premises network. The on-premises network uses a public IP address space of 131.107.1.0/24.

You plan to use the disk files to provision an Azure virtual machine named VM1. VM1 will be attached to a virtual network named VNet1. VNet1 uses an IP address space of 192.168.0.0/24.

You need to configure account1 to meet the following requirements:

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

NOTE: Each correct selection is worth one point.

- A. From the Service endpoints blade of VNet1, add a service endpoint
- B. From the Networking blade of account1, add the 131.107.1.0/24 IP address range.
- C. From the Networking blade of account1, add VNet1.
- D. From the Networking blade of account1, select Selected networks.
- E. From the Networking blade of account1, select Allow trusted Microsoft services to access this storage account

ANSWER: B D

QUESTION NO: 10

You have a Microsoft 365 tenant and an Azure Active Directory (Azure AD) tenant named contoso.com.

You plan to grant three users named User1, User2, and User3 access to a temporary Microsoft SharePoint document library named Library1.

You need to create groups for the users. The solution must ensure that the groups are deleted automatically after 180 days.

Which two groups should you create? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. a Microsoft 365 group that uses the Assigned membership type
- B. a Security group that uses the Assigned membership type
- C. a Microsoft 365 group that uses the Dynamic User membership type

- D. a Security group that uses the Dynamic User membership type
- E. a Security group that uses the Dynamic Device membership type

ANSWER: A C

Explanation:

You can set expiration policy only for Office 365 groups in Azure Active Directory (Azure AD).

Note: With the increase in usage of Office 365 Groups, administrators and users need a way to clean up unused groups. Expiration policies can help remove inactive groups from the system and make things cleaner.

When a group expires, all of its associated services (the mailbox, Planner, SharePoint site, etc.) are also deleted.

You can set up a rule for dynamic membership on security groups or Office 365 groups.

Incorrect Answers:

B, D, E: You can set expiration policy only for Office 365 groups in Azure Active Directory (Azure AD).

Reference: <https://docs.microsoft.com/en-us/office365/admin/create-groups/office-365-groups-expiration-policy?view=o365-worldwide>

QUESTION NO: 11

You plan to create an Azure virtual machine named VM1 that will be configured as shown in the following exhibit.

Create a virtual machine

⚠ Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

Basics

Disks

Networking

Management

Advanced

Tags

Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image.

Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization.

Looking for classic VMs? [Create VM from Azure Marketplace](#)

PROJECT DETAILS

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

* Subscription ⓘ

MyDev-Test Subscription

* Resource group ⓘ

RG1

[Create new](#)**INSTANCE DETAILS**

* Virtual machine name ⓘ

VM1

* Region ⓘ

(US) West US 2

Availability options ⓘ

No infrastructure redundancy required

* Image ⓘ

Windows Server 2016 Datacenter

[Browse all public and private images](#)

Azure Spot instance ⓘ



Yes



No

* Size ⓘ

Standard DS1 v2

1 vcpu, 3.5 GiB memory (ZAR 632.47/month)

[Change size](#)

The planned disk configurations for VM1 are shown in the following exhibit.

Basics **Disks** Networking Management Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

* OS disk type ⓘ Standard HDD ▼

The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Enable Ultra Disk compatibility (Preview) ⓘ ☐ Yes ☒ No
Ultra Disks are only available when using Managed Disks.

Data disks

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

ⓘ Adding unmanaged data disks is currently not supported at the time of VM creation. You can add them after the VM is created.

^ **Advanced**

Use managed disks ⓘ ☒ No ☐ Yes

* Storage account ⓘ (new) rg1 disks799 ▼
[Create new](#)

You need to ensure that VM1 can be created in an Availability Zone.

Which two settings should you modify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Use managed disks
- B. OS disk type
- C. Availability options
- D. Size
- E. Image

ANSWER: A C

Explanation:

A: Your VMs should use managed disks if you want to move them to an Availability Zone by using Site Recovery.

C: When you create a VM for an Availability Zone, Under Settings > High availability, select one of the numbered zones from the Availability zone dropdown.

Settings

High availability

Availability zone ⓘ

2

Storage

Use managed disks ⓘ

No Yes

Network

* Virtual network ⓘ

(new) myResourceGroup9-vnet

* Subnet ⓘ

default (172.16.4.0/24)

* Public IP address ⓘ

(new) myVM-ip

* Network security group (firewall) ⓘ

(new) myVM-nsg

Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/move-azure-vm-avset-azone>
<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/create-portal-availability-zone>

QUESTION NO: 12

You have a general purpose v1 storage account named storageaccount1 that has a private container named container1. You need to allow read access to the data inside container1, but only within a 14 day window. How do you accomplish this?

- A. Create a stored access policy
- B. Create a service SAS
- C. Create a shared access signatures
- D. Upgrade the storage account to general purpose v2

ANSWER: A C**QUESTION NO: 13 - (HOTSPOT)****HOTSPOT**

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

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

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

NOTE: Each correct selection is worth one point.

Hot Area:**Answer Area****Public IP addresses:**

	▼
1	
2	
3	
4	

Virtual network gateways:

	▼
1	
2	
3	
4	

Local network gateways:

	▼
1	
2	
3	
4	

ANSWER:**Answer Area**

Public IP addresses:

	▼
1	
2	
3	
4	

Virtual network gateways:

	▼
1	
2	
3	
4	

Local network gateways:

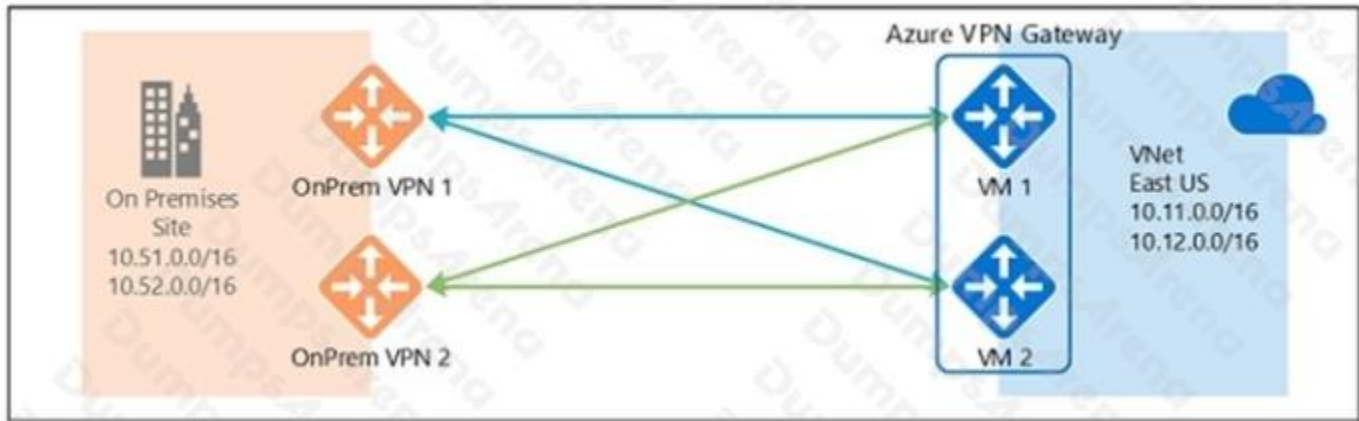
	▼
1	
2	
3	
4	

Explanation:

Box 1: 4

Two public IP addresses in the on-premises data center, and two public IP addresses in the VNET.

The most reliable option is to combine the active-active gateways on both your network and Azure, as shown in the diagram below.



Box 2: 2

Every Azure VPN gateway consists of two instances in an active-standby configuration. For any planned maintenance or unplanned disruption that happens to the active instance, the standby instance would take over (failover) automatically, and resume the S2S VPN or VNet-to-VNet connections.

Box 3: 2

Dual-redundancy: active-active VPN gateways for both Azure and on-premises networks

Reference:

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

QUESTION NO: 14

Your company has several departments. Each department has a number of virtual machines (VMs).

The company has an Azure subscription that contains a resource group named RG1.

All VMs are located in RG1.

You want to associate each VM with its respective department.

What should you do?

- A. Create Azure Management Groups for each department.
- B. Create a resource group for each department.
- C. Assign tags to the virtual machines.
- D. Modify the settings of the virtual machines.

ANSWER: C

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

QUESTION NO: 15

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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

Name	Type	Region
RG1	Resource group	West US
RG2	Resource group	East Asia
storage1	Storage account	West US
storage2	Storage account	East Asia
VM1	Virtual machine	West US
VNET1	Virtual network	West US
VNET2	Virtual network	East Asia

VM1 connects to VNET1.

You need to connect VM1 to VNET2.

Solution: You turn off VM1, and then you add a new network interface to VM1.

Does this meet the goal?

A. Yes

B. No

ANSWER: B**Explanation:**

Instead you should delete VM1. You recreate VM1, and then you add the network interface for VM1.

Note: When you create an Azure virtual machine (VM), you must create a virtual network (VNet) or use an existing VNet. You can change the subnet a VM is connected to after it's created, but you cannot change the VNet.

Reference:

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

QUESTION NO: 16 - (DRAG DROP)

You have an Azure subscription that is used by four departments in your company. The subscription contains 10 resource groups. Each department uses resources in several resource groups.

You need to send a report to the finance department. The report must detail the costs for each department. 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.

Actions	Answer Area
Assign a tag to each resource group.	
Open the Resource costs blade of each resource group.	
Download the usage report.	
Assign a tag to each resource.	
From the Cost analysis blade, filter the view by tag.	

ANSWER:

Assign a tag to each resource.
From the Cost analysis blade, filter the view by tag.
Download the usage report.

Explanation:

Box 1: Assign a tag to each resource.

You apply tags to your Azure resources giving metadata to logically organize them into a taxonomy. After you apply tags, you can retrieve all the resources in your subscription with that tag name and value. Each resource or resource group can have a maximum of 15 tag name/value pairs. Tags applied to the resource group are not inherited by the resources in that resource group.

Box 2: From the Cost analysis blade, filter the view by tag

After you get your services running, regularly check how much they're costing you. You can see the current spend and burn rate in Azure portal.

Box 3: Download the usage report

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

<https://docs.microsoft.com/en-us/azure/billing/billing-getting-started>

QUESTION NO: 17 - (DRAG DROP)

You have an Azure subscription that contains an Azure Service Bus named Bus1.

Your company plans to deploy two Azure web apps named App1 and App2. The web apps will create messages that have the following requirements:

Which resource should you create for each web app? To answer, drag the appropriate resources to the correct web apps. Each resource 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.

NOTE: Each correct selection is worth one point.

Resource	Answer Area
A Service Bus queue	App1
A Service Bus topic	App2
An Azure Event Grid topic	
Azure Blob storage	

ANSWER:

Answer Area	
App1	A Service Bus queue
App2	A Service Bus topic

Reference: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions>

QUESTION NO: 18 - (SIMULATION)

You have an Azure subscription that contains an Azure Kubernetes Service (AKS) cluster named Cluster1. Cluster1 hosts a node pool named Pool1 that has four nodes. You need to perform a coordinated upgrade of Cluster1. The solution must meet the following requirements:

- Deploy two new nodes to perform the upgrade.
- Minimize costs.

How should you complete the command

ANSWER: Checkanswerbelow

Explanation:

Answer below

```
az aks nodepool get-updates -n pool1 -g RG1 --cluster-name cluster1
```

```
--node-count 2
```

QUESTION NO: 19 - (SIMULATION)

You have an Azure App Service web app named app1.

You configure autoscaling as shown in following exhibit.

The screenshot shows the 'Auto created scale condition' configuration page for an Azure App Service web app. The page includes a 'Delete warning' section with a note that the default recurrence rule cannot be deleted. The 'Scale mode' section has two radio buttons: 'Scale based on a metric' (selected) and 'Scale to a specific instance count'. The 'Rules' section contains a note recommending at least one scale rule and an 'Add a rule' button. Below this, a 'Scale out' rule is configured with the condition '(Average) CpuPercentage > 70' and an action to 'Increase count by 1'. The 'Instance limits' section shows three input fields: 'Minimum' (1), 'Maximum' (5), and 'Default' (1), each with a checkmark indicating it is valid. The 'Schedule' section is currently empty. At the bottom, a note states: 'This scale condition is executed when none of the other scale condition(s) match'.

You configure the autoscale rule criteria as shown in the following exhibit.

☒ Criteria

Time aggregation * ☐
Maximum

selected values, in % ☐ Multiple ☒ Single

80%
60%
40%
20%
0%

3:50 PM 3:55 PM

CpuPercentage (Maximum)

1.67 %

☐ Enable metric divide by instance count ☐

Operator * Metric threshold to trigger scale action * ☐
Greater than 70 %

Duration (minutes) * ☐
10

Time grain (minutes) ☐ Time grain statistic * ☐
1 Average

☒ Action

Operation * Cool down (minutes) * ☐
Increase count by 5

Instance count *
1

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic. NOTE Each correct selection is worth one point.

Answer Area

After CPU usage has reached 80 percent for 15 minutes, [answer choice] will be running.

Once the first scale-out instance is created, the minimum time before an additional instance is created will be [answer choice].

ANSWER: See the answer below.

Explanation:

Answer is below in image.

Answer Area

After CPU usage has reached 80 percent for 15 minutes, [answer choice] will be running.

2 instances

Once the first scale-out instance is created, the minimum time before an additional instance is created will be [answer choice].

5 minutes

QUESTION NO: 20 - (HOTSPOT)

You have an Azure subscription that contains a storage account named storage1. The storage1 account contains a container named container1.

You to create a lifecycle management rule for storage' that will automatically move the blobs in container' to the lowest-cost tier after 90 days.

How should you complete the rule? TO answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
"rules": [  
  {  
    "enabled": true,  
    "name": "rule1",  
    "type": "Lifecycle",  
    "definition": {  
      "actions": {  
        "baseBlob": {  
          "enableAutoTierToHotFromCool": {  
            "tierToArchive": {  
              "tierToCool": {  
                "daysAfterModificationGreaterThan": 90  
              }  
            }  
          }  
        }  
      }  
    }  
  }  
],  
"filters": {  
  "blobIndexMatch": [  
    "blobTypes": [  
      "prefixMatch": [  
        ...  
      ]  
    ]  
  }  
}
```

ANSWER:

```
{ "rules": [ { "enabled": true, "name": "move-to-cool", "type": "Lifecycle", "definition": { "actions": { "baseBlob": { "tierToCool": {  
"daysAfterModificationGreaterThan": 30 } } }, "filters": { "blobTypes": [ "blockBlob" ], "prefixMatch": [ "sample-container/log" ] }  
} } ] }
```

<https://learn.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-policy-configure?tabs=azure-portal>