# Microsoft

## Exam Questions AZ-104

Microsoft Azure Administrator (beta)

**NEW QUESTION 1**
- (Exam Topic 1)
You need to recommend a solution to automate the configuration for the finance department users. The solution must meet the technical requirements.
What should you include in the recommended?

A. Azure AP B2C
B. Azure AD Identity Protection
C. an Azure logic app and the Microsoft Identity Management (MIM) client
D. dynamic groups and conditional access policies

**Answer:** D

**Explanation:**
Scenario: Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
The recommendation is to use conditional access policies that can then be targeted to groups of users, specific applications, or other conditions.
References:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-userstates

**NEW QUESTION 2**
- (Exam Topic 1)
You discover that VM3 does NOT meet the technical requirements. You need to verify whether the issue relates to the NSGs.
What should you use?

A. Diagram in VNet1
B. the security recommendations in Azure Advisor
C. Diagnostic settings in Azure Monitor
D. Diagnose and solve problems in Traffic Manager Profiles
E. IP flow verify in Azure Network Watcher

**Answer:** E

**Explanation:**
Scenario: Litware must meet technical requirements including:
Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.
References:
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

**NEW QUESTION 3**
- (Exam Topic 1)
You need to meet the connection requirements for the New York office.
What should you do? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

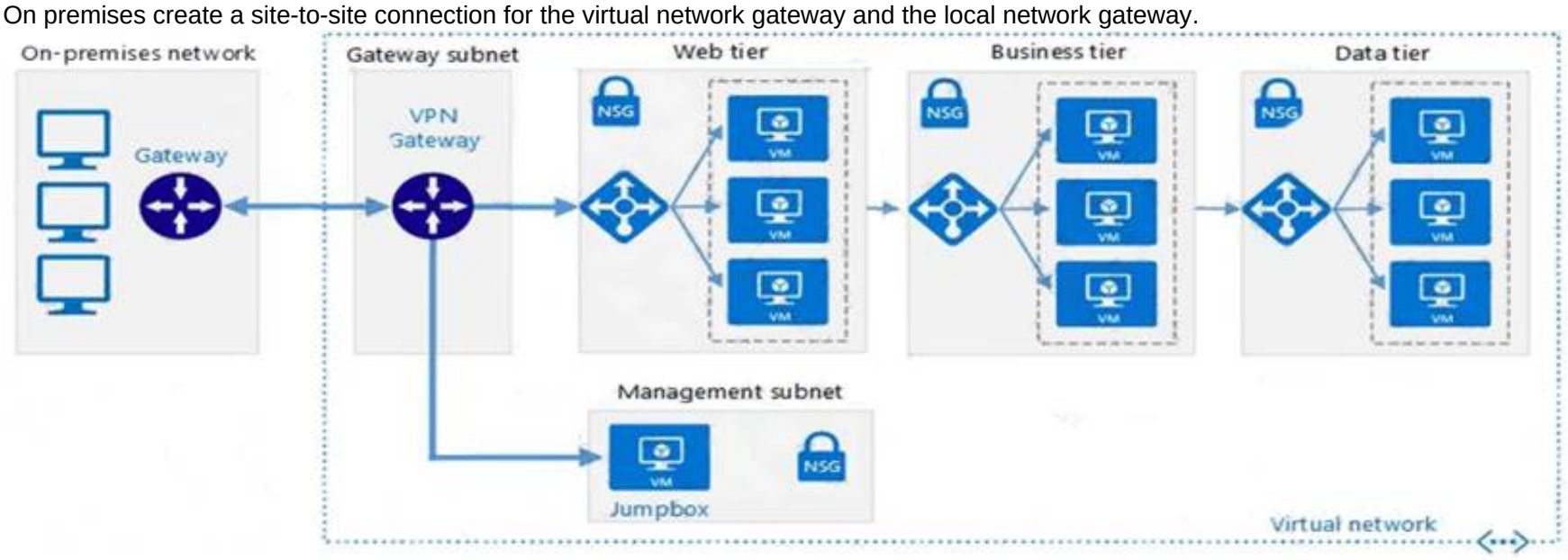
| | |
|---|---|
| From the Azure portal: | Create an ExpressRoute circuit only.<br>Create a virtual network gateway only.<br>Create a virtual network gateway and a local network gateway.<br>Create an ExpressRoute circuit and an on-premises data gateway.<br>Create a virtual network gateway and an on-premises data gateway. |
| In the New York office: | Deploy ExpressRoute.<br>Deploy a DirectAccess server.<br>Implement a Web Application Proxy.<br>Configure a site-to-site VPN connection. |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Create a virtual network gateway and a local network gateway.
Azure VPN gateway. The VPN gateway service enables you to connect the VNet to the on-premises network through a VPN appliance. For more information, see Connect an on-premises network to a Microsoft Azure virtual network. The VPN gateway includes the following elements:
- Virtual network gateway. A resource that provides a virtual VPN appliance for the VNet. It is responsible for routing traffic from the on-premises network to the VNet.
- Local network gateway. An abstraction of the on-premises VPN appliance. Network traffic from the cloud application to the on-premises network is routed through this gateway.
- Connection. The connection has properties that specify the connection type (IPSec) and the key shared with the on-premises VPN appliance to encrypt traffic.

Gateway subnet. The virtual network gateway is held in its own subnet, which is subject to various requirements, described in the Recommendations section below.
Box 2: Configure a site-to-site VPN connection
On premises create a site-to-site connection for the virtual network gateway and the local network gateway.




Scenario: Connect the New York office to VNet1 over the Internet by using an encrypted connection.

**NEW QUESTION 4**
- (Exam Topic 2)
You need to resolve the licensing issue before you attempt to assign the license again. What should you do?

A. From the Groups blade, invite the user accounts to a new group.
B. From the Profile blade, modify the usage location.
C. From the Directory role blade, modify the directory role.

**Answer:** A

**Explanation:**
License cannot be assigned to a user without a usage location specified. Scenario: Licensing Issue
You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user."
You verify that the Azure subscription has the available licenses.

**NEW QUESTION 5**
- (Exam Topic 4)
You have an Azure subscription that contains the virtual machines shown in the following table.

| Name | Operating system | Connects to |
|---|---|---|
| VM1 | Windows Server 2019 | Subnet1 |
| VM2 | Windows Server 2019 | Subnet2 |

VM1 and VM2 use public IP addresses. From Windows Server 2019 on VM1 and VM2, you allow inbound Remote Desktop connections.
Subnet1 and Subnet2 are in a virtual network named VNET1.
The subscription contains two network security groups (NSGs) named NSG1 and NSG2. NSG1 uses only the default rules.
NSG2 uses the default and the following custom incoming rule:
- Priority: 100
- Name: Rule1
- Port: 3389
- Protocol: TCP
- Source: Any
- Destination: Any
- Action: Allow

NSG1 connects to Subnet1. NSG2 connects to the network interface of VM2.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

| Statements | Yes | No |
|---|---|---|
| From the internet, you can connect to VM1 by using Remote Desktop. | ○ | ○ |
| From the internet, you can connect to VM2 by using Remote Desktop. | ○ | ○ |
| From VM1, you can connect to VM2 by using Remote Desktop. | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: No
The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.
Box 2: Yes
NSG2 will allow this. Box 3: Yes
NSG2 will allow this.
Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default. References:
https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/troubleshoot-rdp-connection

**NEW QUESTION 6**
- (Exam Topic 4)
You have Azure subscription that includes following Azure file shares: You have the following on-premises servers:
You create a Storage Sync Service named Sync1 and an Azure File Sync group named Group1. Group1 uses share1 as a cloud endpoint.
You register Server1 and Server2 in Sync1. You add D:\Folder1 on Server1 as a server endpoint of Group1. For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

| Statements | Yes | No |
|---|---|---|
| share2 can be added as a cloud endpoint for Group1 | ○ | ○ |
| E:\Folder2 on Server1 can be added as a server endpoint for Group1 | ○ | ○ |
| D:\Data on Server2 can be added as a server endpoint for Group1 | ○ | ○ |

A. Mastered
B. Not Mastered

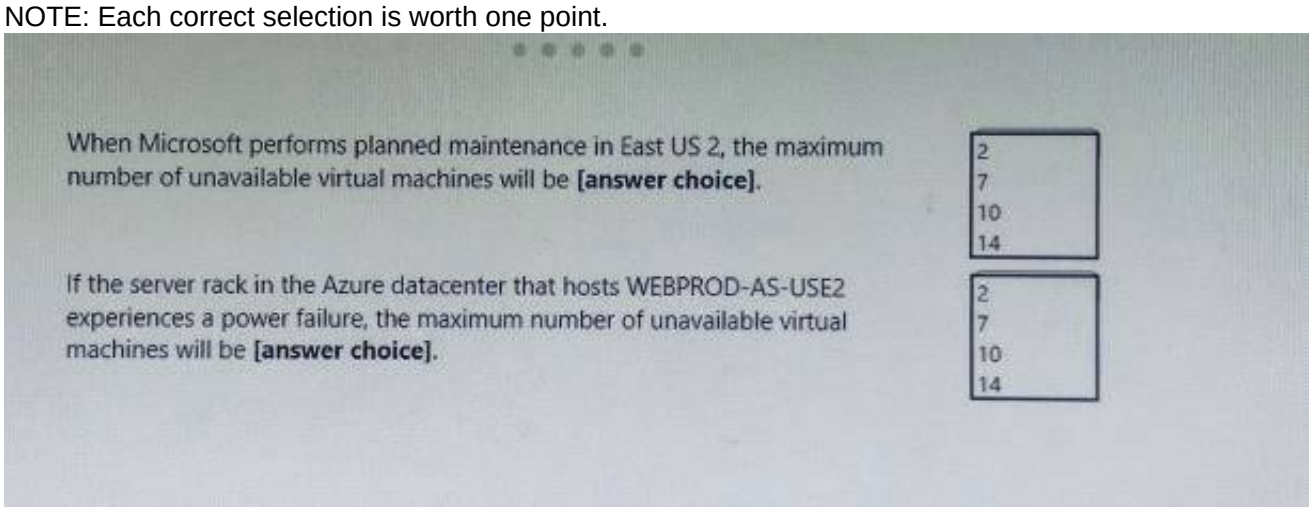
**Answer:** A

**Explanation:**
Box 1: No
Group1 already has a cloud endpoint named Share1.
A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints.
Box 2: Yes
Yes, one or more server endpoints can be added to the sync group. Box 3: Yes
Yes, one or more server endpoints can be added to the sync group. References:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

**NEW QUESTION 7**
- (Exam Topic 4)
You have an Azure subscription that contains an Azure Availability Set named WEBPROD-AS-USE2 as shown in the following exhibit.

```
PS Azure:\> az vm availability-set list    RG1
[
  {
    "id": "/subscriptions/8372f433-2dcd-4361-b5ef-5b188fed87d0/resourceGr
oups/RG1/providers/Microsoft.Compute/availabilitySets/WEBPROD-AS-USE2",
    "location": "eastus2",
    "name": "WEBPROD-AS-USE2",
    "platformFaultDomainCount": 2,
    "platformUpdateDomainCount": 10,
    "proximityPlacementGroup": null,
    "resourceGroup": "RG1",
    "sku": {
      "capacity": null,
      "name": "Aligned",
      "tier": null
    },
    "statuses": null,
    "tags": {},
    "type": "Microsoft.Compute/availabilitySets",
    "virtualMachines": []
  }
]
Azure:/
```

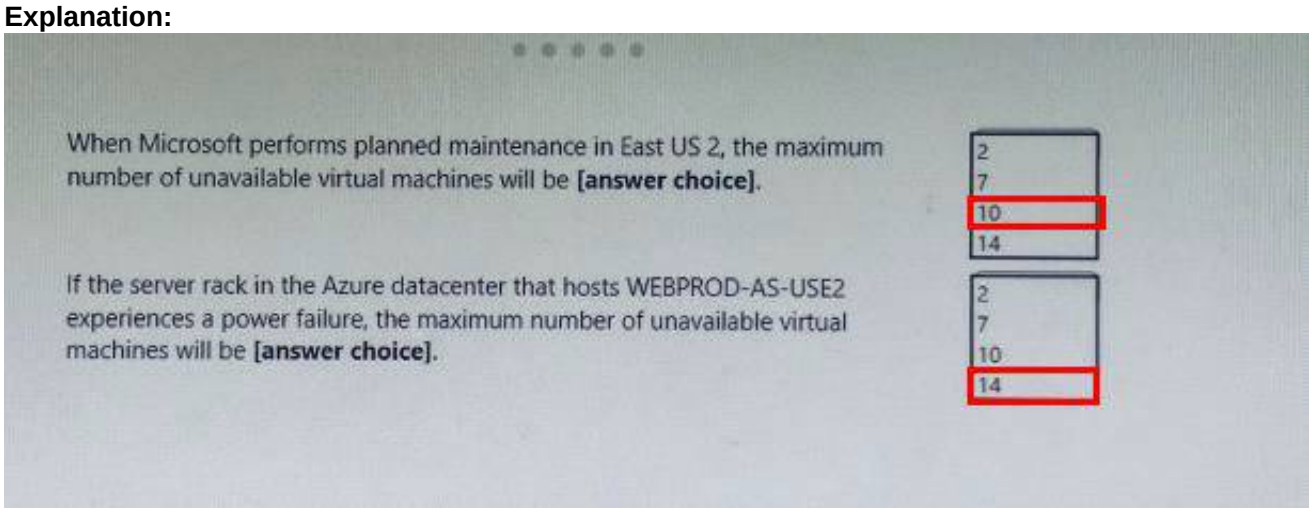
You add 14 virtual machines to WEBPROD-AS-USE2.
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.




A. Mastered
B. Not Mastered

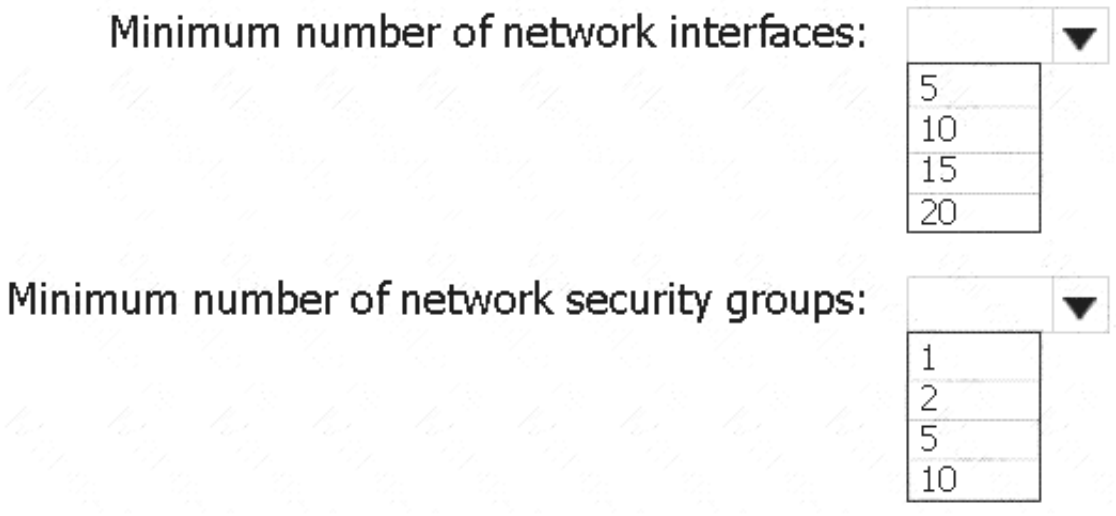
**Answer:** A

**Explanation:**




**NEW QUESTION 8**
- (Exam Topic 4)
You plan to deploy five virtual machines to a virtual network subnet.
Each virtual machine will have a public IP address and a private IP address. Each virtual machine requires the same inbound and outbound security rules.
What is the minimum number of network interfaces and network security groups that you require? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

**Answer Area**




A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: 10
One public and one private network interface for each of the five VMs. Box 2: 1
You can associate zero, or one, network security group to each virtual network subnet and network interface in a virtual machine. The same network security group can be associated to as many subnets and network interfaces as you choose.
References:
https://docs.microsoft.com/en-us/azure/virtual-network/security-overview

**NEW QUESTION 9**
- (Exam Topic 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.
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 named Subscription1 that contains the resources shown in the following table.

| Name | Type | Location | Resource group |
|---|---|---|---|
| RG1 | Resource group | East US | *Not applicable* |
| RG2 | Resource group | West Europe | *Not applicable* |
| RG3 | Resource group | North Europe | *Not applicable* |
| VNET1 | Virtual network | Central US | RG1 |
| VM1 | Virtual machine | West US | RG2 |

VM1 connects to a virtual network named VNET2 by using a network interface named NIC1. You need to create a new network interface named NIC2 for VM1.
Solution: You create NIC2 in RG2 and West US. Does this meet the goal?

A. Yes
B. NO

**Answer:** A

**Explanation:**
The virtual machine you attach a network interface to and the virtual network you connect it to must exist in the same location, here West US, also referred to as a region.
References:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

**NEW QUESTION 10**
- (Exam Topic 4)
You have an Azure subscription that contains the resource groups shown in the following table.

| Name | Lock name | Lock type |
|---|---|---|
| RG1 | None | None |
| RG2 | Lock | Delete |

RG1 contains the resources shown in the following table.

| Name | Type | Lock name | Lock type |
|---|---|---|---|
| storage1 | Storage account | Lock1 | Delete |
| VNET1 | Virtual network | Lock2 | Read-only |
| IP1 | Public IP address | None | None |

RG2 contains the resources shown in the following table.

| Name | Type | Lock name | Lock type |
|---|---|---|---|
| storage2 | Storage account | Lock1 | Delete |
| VNET2 | Virtual network | Lock2 | Read-only |
| IP2 | Public IP address | None | None |

You need to identify which resources you can move from RG1 to RG2, and which resources you can move from RG2 to RG1.
Which resources should you identify? To answer, select the appropriate options in the answer area.

Resources that you can move from RG1 to RG2:

- None
- IP1 only
- IP1 and storage1 only
- IP1 and VNET1 only
- IP1, VNET1, and storage1

Resources that you can move from RG2 to RG1:

- None
- IP2 only
- IP2 and storage2 only
- IP2 and VNET2 only
- IP2 , VNET2, and storage2

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/governance/blueprints/concepts/resource-locking

**NEW QUESTION 10**
- (Exam Topic 4)
You have an Azure subscription named Sub1.
You plan to deploy a multi-tiered application that will contain the tiers shown in the following table.

| Tier | Accessible from the Internet | Number of virtual machines |
|---|---|---|
| Front-end web server | Yes | 10 |
| Business logic | No | 100 |
| Microsoft SQL Server database | No | 5 |

You need to recommend a networking solution to meet the following requirements:

- Ensure that communication between the web servers and the business logic tier spreads equally across the virtual machines.
- Protect the web servers from SQL injection attacks.

Which Azure resource should you recommend for each requirement? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Ensure that communication between the web servers and the business logic tier spreads equally across the virtual machines:

- an application gateway that uses the Standard tier
- an application gateway that uses the WAF tier
- an internal load balancer
- a network security group (NSG)
- a public load balancer

Protect the web servers from SQL injection attacks:

- an application gateway that uses the Standard tier
- an application gateway that uses the WAF tier
- an internal load balancer
- a network security group (NSG)
- a public load balancer

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: an internal load balancer
Azure Internal Load Balancer (ILB) provides network load balancing between virtual machines that reside inside a cloud service or a virtual network with a regional scope.
Box 2: an application gateway that uses the WAF tier
Azure Web Application Firewall (WAF) on Azure Application Gateway 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. References:
https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview

**NEW QUESTION 11**
- (Exam Topic 4)
You have an Azure subscription that contains a resource group named Test RG. You use TestRG to validate an Azure deployment.
TestRG contains the following resources:

| Name | Type | Description |
|---|---|---|
| VM1 | Virtual Machine | VM1 is running and configured to back up to Vault1 daily. |
| VAULT1 | Recovery Services Vault | Vault1 includes all backups of VM1. |
| VNET1 | Virtual Network | VNET1 has a resource lock of type Delete. |

You need to delete TestRG.
What should you do first?

A. Modify the backup configurations of VM1 and modify the resource lock type of VNET1.
B. Turn off VM1 and delete all data in Vault1.
C. Remove the resource lock from VNET1 and delete all data in Vault1.
D. Turn off VM1 and remove the resource lock from VNET1.

**Answer:** D

**Explanation:**
When you want to delete the resource, you first need to remove the lock. References:
https://docs.microsoft.com/sv-se/azure/azure-resource-manager/management/lock-resources

**NEW QUESTION 14**
- (Exam Topic 4)
You have an Azure subscription that includes data in following locations:

| Name | Type |
|---|---|
| container1 | Blob container |
| share1 | Azure files share |
| DB1 | SQL database |
| Table1 | Azure Table |

You plan to export data by using Azure import/export job named Export1. You need to identify the data that can be exported by using Export1. Which data should you identify?

A. DB1
B. Table1
C. container1
D. Share1

**Answer:** D

**Explanation:**
Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter.
References:
https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service

**NEW QUESTION 16**
- (Exam Topic 4)
You manage two Azure subscriptions named Subscription1 and Subscription2. Subscription1 has the following virtual networks:

| Name | Address space | Location |
|---|---|---|
| VNET1 | 10.10.10.0/24 | West Europe |
| VNET2 | 172.16.0.0/16 | West US |

The virtual networks contain the following subnets:

| Name | Address space | Location |
|---|---|---|
| Subnet11 | 10.10.10.0/24 | VNET1 |
| Subnet21 | 172.16.0.0/18 | VNET2 |
| Subnet22 | 172.16.128.0/18 | VNET2 |

Subscription2 contains the following virtual network:
- Name: VNETA
- Address space: 10.10.128.0/17
- Location: Canada Central

VNETA contains the following subnets:

| Name | Address range |
|---|---|
| SubnetA1 | 10.10.130.0/24 |
| SubnetA2 | 10.10.131.0/24 |

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

| Statements | Yes | No |
|---|---|---|
| A Site-to-Site connection can be established between VNET1 and VNET2. | ○ | ○ |
| VNET1 and VNET2 can be peered. | ○ | ○ |
| VNET1 and VNETA can be peered. | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Yes
With VNet-to-VNet you can connect Virtual Networks in Azure across Different regions. Box 2: Yes
Azure supports the following types of peering:
Virtual network peering: Connect virtual networks within the same Azure region. Global virtual network peering: Connecting virtual networks across Azure regions.
Box 3: No
The virtual networks you peer must have non-overlapping IP address spaces. References:
https://azure.microsoft.com/en-us/blog/vnet-to-vnet-connecting-virtual-networks-in-azure-across-different-regio https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-cons

**NEW QUESTION 17**
- (Exam Topic 4)
You have an Azure subscription that contains the following users in an Azure Active Directory tenant named contoso.onmicrosoft.com:

| Name | Role | Scope |
|---|---|---|
| User1 | Global administrator | Azure Active Directory |
| User2 | Global administrator | Azure Active Directory |
| User3 | User administrator | Azure Active Directory |
| User4 | Owner | Azure Subscription |

User1 creates a new Azure Active Directory tenant named external.contoso.onmicrosoft.com. You need to create new user accounts in external.contoso.com.onmicrosoft.com.
Solution: You instruct User1 to create the user accounts.

A. Yes
B. No

**Answer:** A

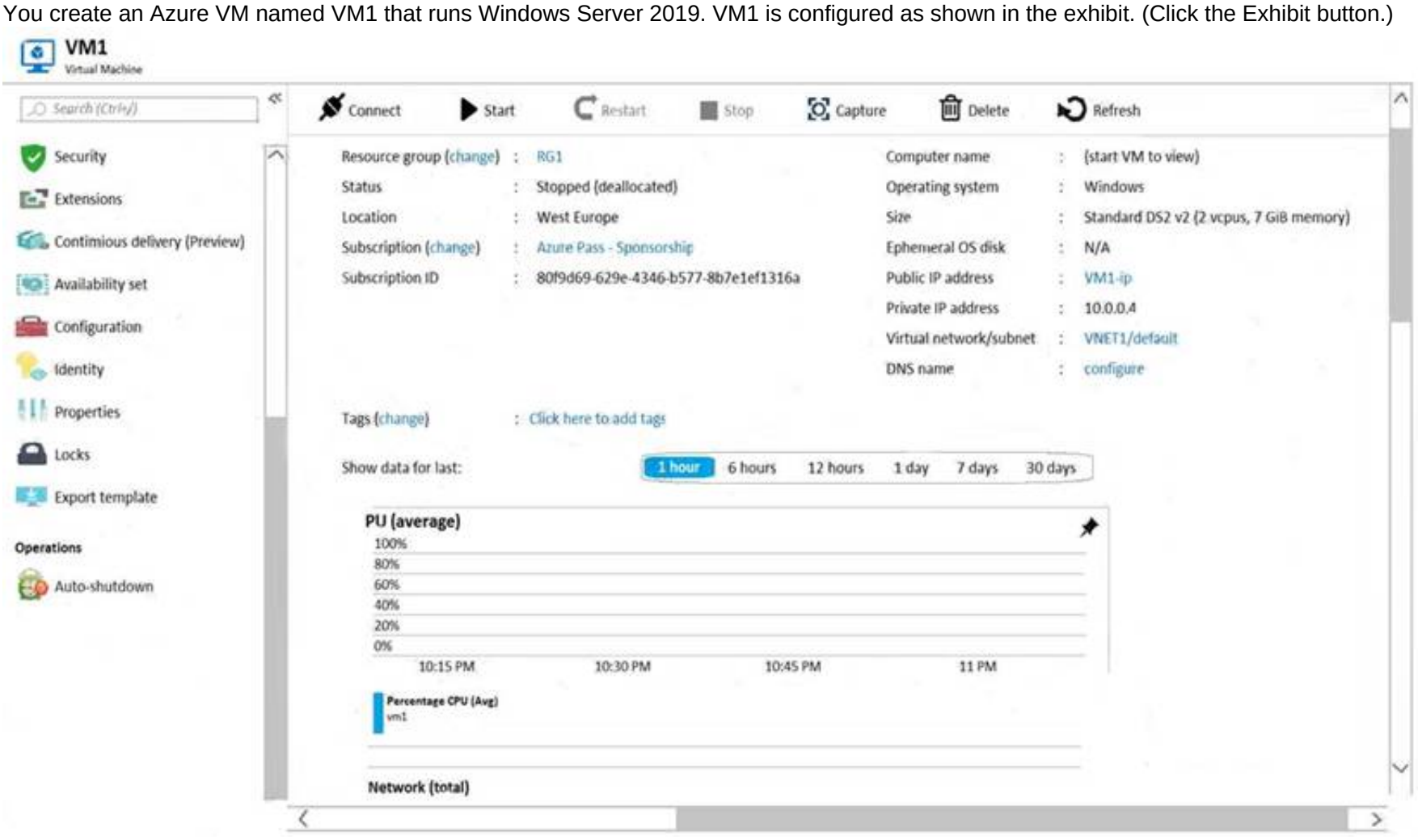
**Explanation:**
Only a global administrator can add users to this tenant. References:
https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/add-users-to-azure-ad

**NEW QUESTION 22**
- (Exam Topic 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.
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 computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1. The point-to-site connection uses a self-signed certificate.
From Azure, you download and install the VPN client configuration package on a computer named Computer2.
You need to ensure that you can establish a point-to-site VPN connection to VNet1 from Computer2. Solution: You modify the Azure Active Directory (Azure AD) authentication policies.
Does this meet this goal?

A. Yes
B. No

**Answer:** B

**NEW QUESTION 26**
- (Exam Topic 4)
You create an Azure VM named VM1 that runs Windows Server 2019. VM1 is configured as shown in the exhibit. (Click the Exhibit button.)




You need to enable Desired State Configuration for VM1. What should you do first?

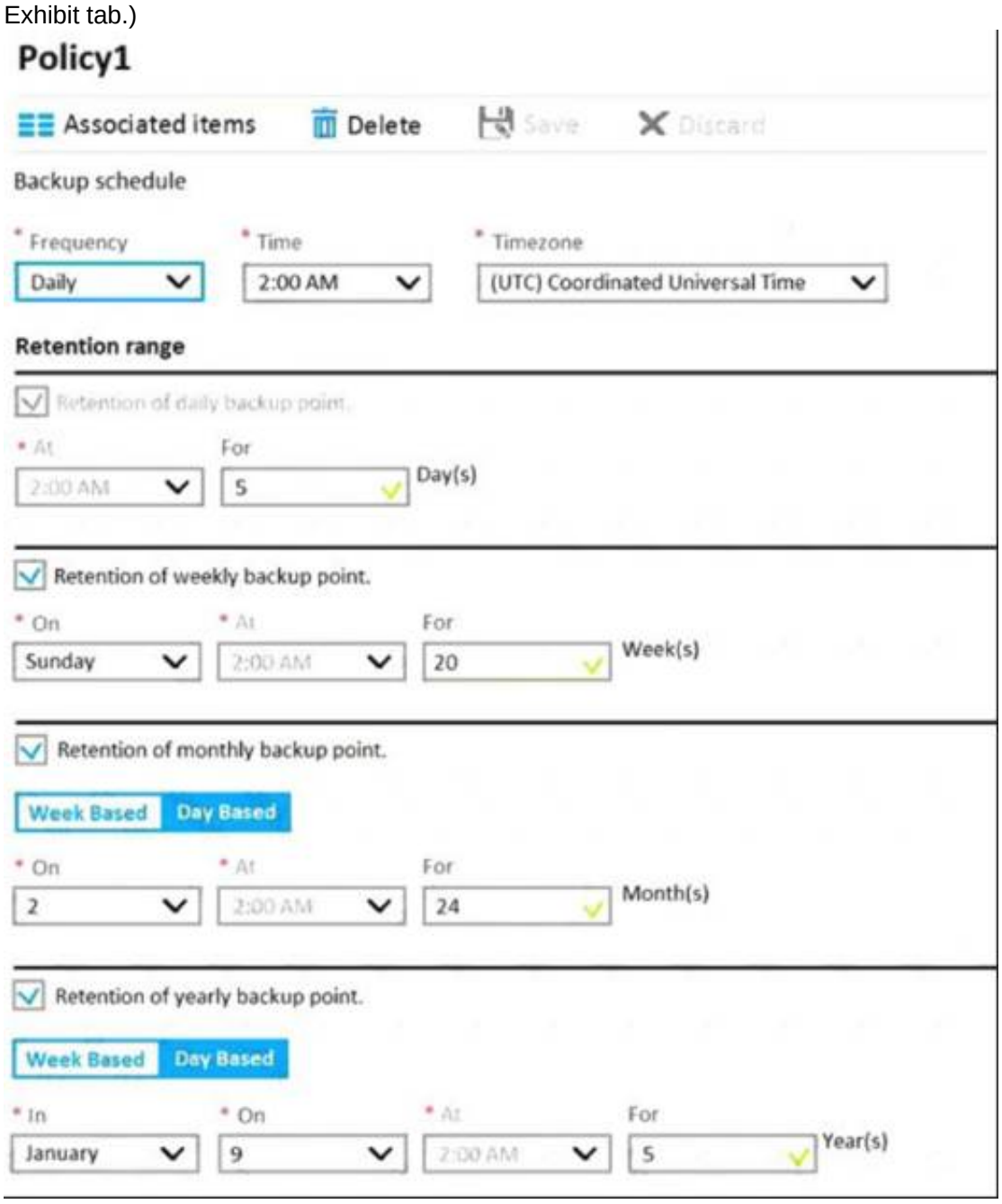
A. Configure a DNS name for VM1.
B. Start VM1.

C. Connect to VM1.
D. Capture a snapshot of VM1.

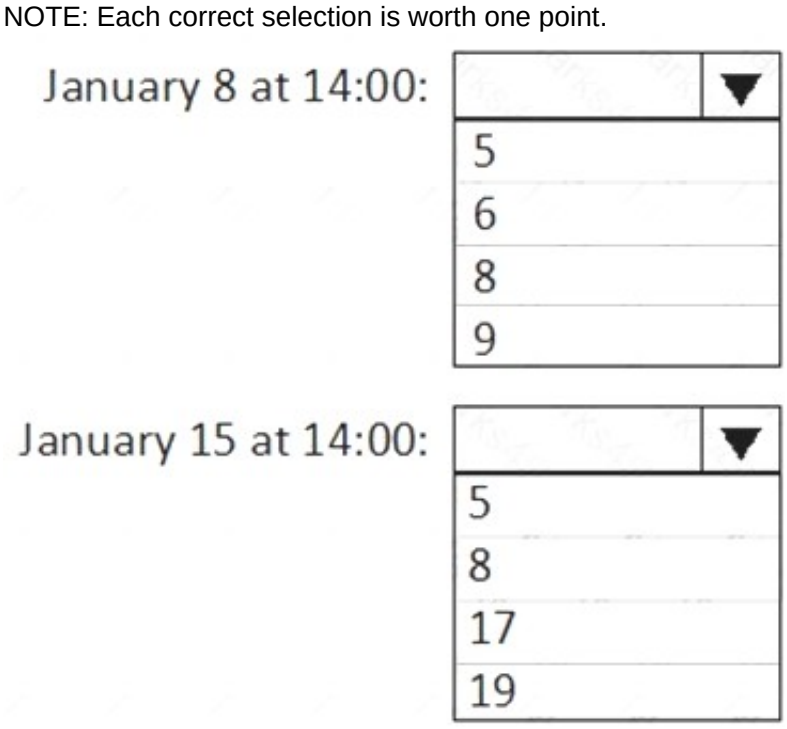
**Answer:** B

**Explanation:**
Status is Stopped (Deallocated).
The DSC extension for Windows requires that the target virtual machine is able to communicate with Azure. The VM needs to be started.
References:
https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/dsc-windows

**NEW QUESTION 28**
- (Exam Topic 4)
You have an Azure virtual machine named VM1 and a Recovery Services vault named Vault1. You create a backup Policy1 as shown in the exhibit. (Click the Exhibit tab.)




You configure the backup of VM1 to use Policy1 on Thursday, January 1. You need to identify the number of available recovery points for VM1.
How many recovery points are available on January 8 and on January 15? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.




A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: 6
4 daily + 1 weekly + monthly Box 2: 8
4 daily + 2 weekly + monthly + yearly

**NEW QUESTION 33**
- (Exam Topic 4)
You have Azure subscriptions named Subscription1 and Subscription2. Subscription1 has following resource groups:

| Name | Region | Lock type |
|---|---|---|
| RG1 | West Europe | None |
| RG2 | West Europe | Read Only |

RG1 includes a web app named App1 in the West Europe location. Subscription2 contains the following resource groups:

| Name | Region | Lock type |
|---|---|---|
| RG3 | East Europe | Delete |
| RG4 | Central US | none |

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

| Statements | Yes | No |
|---|---|---|
| App1 can be moved to RG2 | ○ | ○ |
| App1 can be moved to RG3 | ○ | ○ |
| App1 can be moved to RG4 | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/move-limitations/app-service-mov

**NEW QUESTION 36**
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