

- **Vendor: Microsoft**
- **Exam Code: AZ-104**
- **Exam Name: Microsoft Azure Administrator**
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**QUESTION 254**

Hotspot Question

You have Azure Active Directory tenant named Contoso.com that includes following users:

Name	Role
User1	Cloud device administrator
User2	User administrator

Contoso.com includes following Windows 10 devices:

Name	Join type
Device1	Azure AD registered
Device2	Azure AD joined

You create following security groups in Contoso.com:

Name	Membership Type	Owner
Group1	Assigned	User2
Group2	Dynamic Device	User2

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

**NOTE:** Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
User1 can add Device2 to Group1	<input type="radio"/>	<input type="radio"/>
User2 can add Device1 to Group1	<input type="radio"/>	<input type="radio"/>
User2 can add Device2 to Group2	<input type="radio"/>	<input type="radio"/>

**Answer:**

**Answer Area**

Statements	Yes	No
User1 can add Device2 to Group1	<input checked="" type="radio"/>	<input type="radio"/>
User2 can add Device1 to Group1	<input type="radio"/>	<input checked="" type="radio"/>
User2 can add Device2 to Group2	<input checked="" type="radio"/>	<input type="radio"/>

**Explanation:**

Box 1: Yes

User1 is a Cloud Device Administrator.

Device2 is Azure AD joined.

Group1 has the assigned to join type. User1 is the owner of Group1.

Note: Assigned groups - Manually add users or devices into a static group. Azure AD joined or hybrid Azure AD joined devices utilize an organizational account in Azure AD

Box 2: No

User2 is a User Administrator.

Device1 is Azure AD registered.

Group1 has the assigned join type, and the owner is User1.

Note: Azure AD registered devices utilize an account managed by the end user, this account is either a Microsoft account or another locally managed credential.

Box 3: Yes

User2 is a User Administrator.

Device2 is Azure AD joined.

Group2 has the Dynamic Device join type, and the owner is User2.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/devices/overview>

**QUESTION 255**

Hotspot Question

You have an Azure subscription that contains an Azure Storage account.

You plan to copy an on-premises virtual machine image to a container named vmimages.

You need to create the container for the planned image.

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

NOTE: Each correct selection is worth one point.

**Answer Area**

azcopy

'https://mystorageaccount.'  .core.windows.net/vmimages'

Answer:

**Answer Area**

azcopy  ▼

make
sync
copy

'https://mystorageaccount.'  ▼ .core.windows.net/vmimages'

blob
dfs
queue
table
images
file

**QUESTION 256**

Hotspot Question

You have an Azure File sync group that has the endpoints shown in the following table.

Name	Type
Endpoint1	Cloud endpoint
Endpoint2	Server endpoint
Endpoint3	Server endpoint

Cloud tiering is enabled for Endpoint3.

You add a file named File1 to Endpoint1 and a file named File2 to Endpoint2.

On which endpoints will File1 and File2 be available within 24 hours of adding the files? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

File1:  ▼

Endpoint1 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

File2:  ▼

Endpoint2 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

Answer:

### Answer Area

File1: 

Endpoint1 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

File2: 

Endpoint2 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

**Explanation:**

File1: Endpoint3 only

Cloud Tiering: A switch to enable or disable cloud tiering. When enabled, cloud tiering will tier files to your Azure file shares. This converts on-premises file shares into a cache, rather than a complete copy of the dataset, to help you manage space efficiency on your server. With cloud tiering, infrequently used or accessed files can be tiered to Azure Files.

File2: Endpoint1, Endpoint2, and Endpoint3

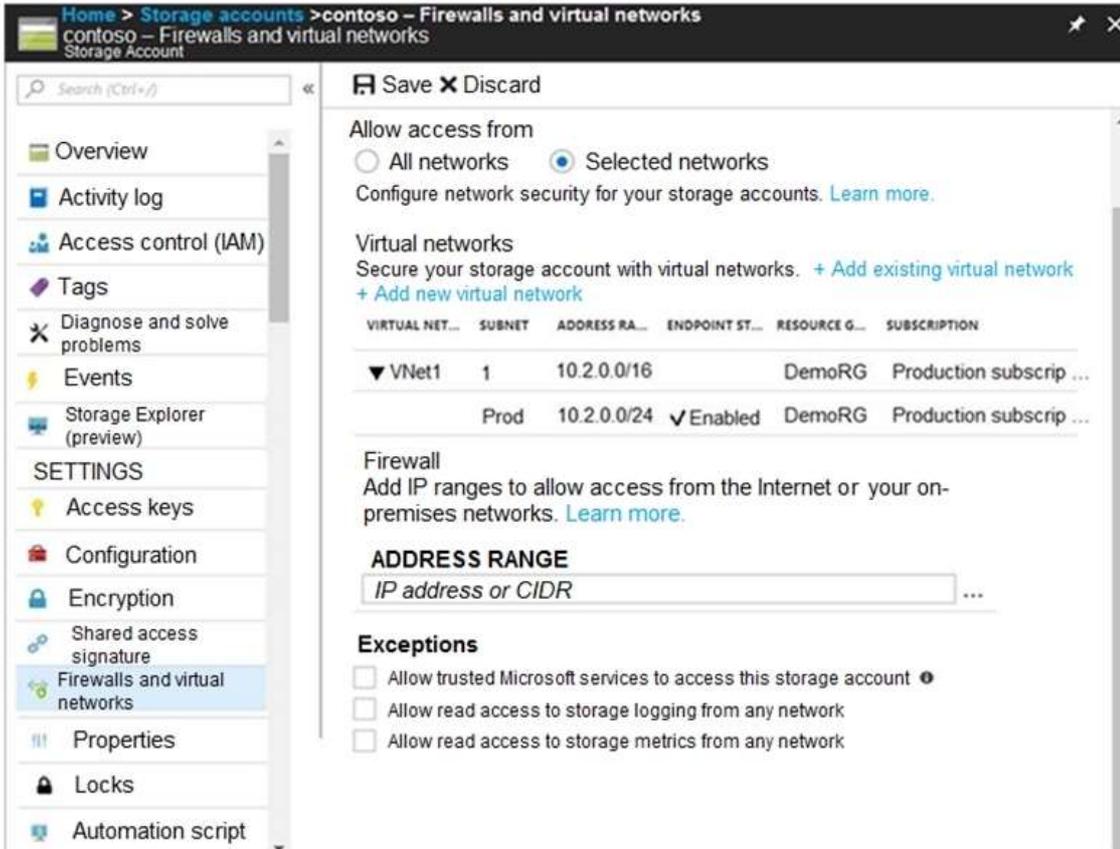
Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-cloud-tiering>

**QUESTION 257**

Hotspot Question

You have several Azure virtual machines on a virtual network named VNet1.  
You configure an Azure Storage account as shown in the following exhibit.



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.

**Answer Area**

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account [answer choice].

▼

always
during a backup
never

Azure Backup will be able to back up the unmanaged hard disks of the virtual machines in the storage account [answer choice].

▼

always
during a backup
never

**Answer:**

**Answer Area**

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account [answer choice].

▼

always  
 during a backup  
 never

Azure Backup will be able to back up the unmanaged hard disks of the virtual machines in the storage account [answer choice].

▼

always  
 during a backup  
 never

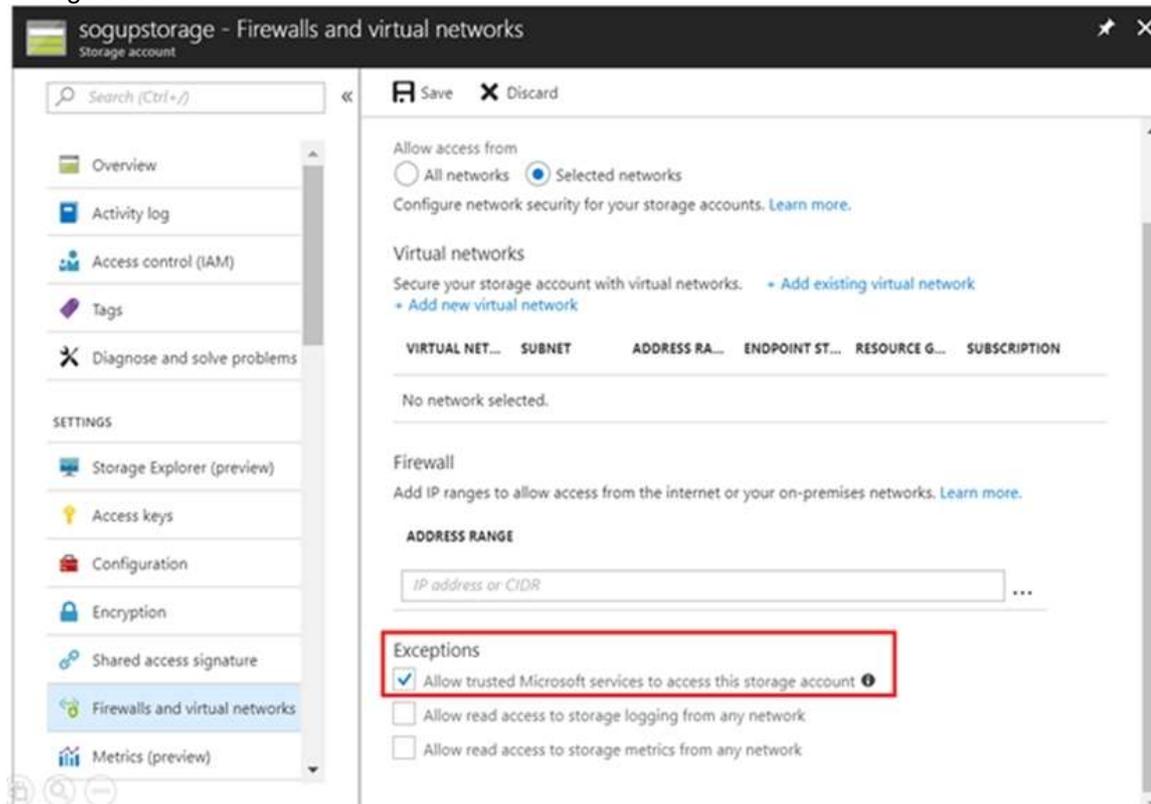
**Explanation:**

Box 1: always

Endpoint status is enabled.

Box 2: Never

After you configure firewall and virtual network settings for your storage account, select Allow trusted Microsoft services to access this storage account as an exception to enable Azure Backup service to access the network restricted storage account.



The screenshot shows the 'Firewalls and virtual networks' settings for a storage account named 'sogupstorage'. The 'Exceptions' section is highlighted with a red box, showing the following options:

- Allow trusted Microsoft services to access this storage account
- Allow read access to storage logging from any network
- Allow read access to storage metrics from any network

Reference:

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

<https://azure.microsoft.com/en-us/blog/azure-backup-now-supports-storage-accounts-secured-with-azure-storage-firewalls-and-virtual-networks/>

**QUESTION 258**

Hotspot Question

You have a sync group named Sync1 that has a cloud endpoint. The cloud endpoint includes a file named File1.txt. Your on-premises network contains servers that run Windows Server 2016. The servers are configured as shown in the following table.

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Name	Share	Share contents
Server1	Share1	File1.txt, File2.txt
Server2	Share2	File2.txt, File3.txt

You add Share1 as an endpoint for Sync1. One hour later, you add Share2 as an endpoint for Sync1. For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

### Answer Area

Statements	Yes	No
On the cloud endpoint, File1.txt is overwritten by File1.txt from Share1.	<input type="radio"/>	<input type="radio"/>
On Server1, File1.txt is overwritten by File1.txt from the cloud endpoint.	<input type="radio"/>	<input type="radio"/>
File1.txt from Share1 replicates to Share2.	<input type="radio"/>	<input type="radio"/>

Answer:

### Answer Area

Statements	Yes	No
On the cloud endpoint, File1.txt is overwritten by File1.txt from Share1.	<input checked="" type="radio"/>	<input type="radio"/>
On Server1, File1.txt is overwritten by File1.txt from the cloud endpoint.	<input type="radio"/>	<input checked="" type="radio"/>
File1.txt from Share1 replicates to Share2.	<input checked="" type="radio"/>	<input type="radio"/>

### Explanation:

Box 1: Yes

If you add an Azure file share that has an existing set of files as a cloud endpoint to a sync group, the existing files are merged with any other files that are already on other endpoints in the sync group.

Box 2: No

Box 3: Yes

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-planning>

### QUESTION 259

Hotspot Question

You have an Azure subscription named Subscription1 that contains the quotas shown in the following table.

Quota	Location	Usage
Standard BS Family vCPUs	West US	0 of 20
Standard D Family vCPUs	West US	0 of 20
Total Regional vCPUs	West US	0 of 20

You deploy virtual machine to Subscription1 as shown in the following table.

Name	Size	vCPUs	Location	Status
VM1	Standard_B2ms	2	West US	Running
VM20	Standard_B16ms	16	West US	Stopped (Deallocated)

You plan to deploy the virtual machines shown in the following table.

Name	Size	vCPUs
VM3	Standard_B2ms	1
VM4	Standard_D4s_v3	4
VM5	Standard_B16ms	16

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

### Answer Area

Statements	Yes	No
You can deploy VM3 to West US.	<input type="radio"/>	<input type="radio"/>
You can deploy VM4 to West US.	<input type="radio"/>	<input type="radio"/>
You can deploy VM5 to West US.	<input type="radio"/>	<input type="radio"/>

Answer:

### Answer Area

Statements	Yes	No
You can deploy VM3 to West US.	<input checked="" type="radio"/>	<input type="radio"/>
You can deploy VM4 to West US.	<input type="radio"/>	<input checked="" type="radio"/>
You can deploy VM5 to West US.	<input type="radio"/>	<input checked="" type="radio"/>

#### Explanation:

The total regional vCPUs is 20 so that means a maximum total of 20 vCPUs across all the different VM sizes. The deallocated VM with 16 vCPUs counts towards the total. VM20 and VM1 are using 18 of the maximum 20 vCPUs leaving only two vCPUs available.

Reference:

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

#### QUESTION 260

Hotspot Question

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 -g RG1
[
  {
    "id": "/subscriptions/8372f433-2dcd-4361-b5ef-5b188fed87d0/resourceGroups/
    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.

**Answer Area**

When Microsoft performs planned maintenance in East US 2, the maximum number of unavailable virtual machines will be [answer choice].

	▼
2	
7	
10	
14	

If the server rack in the Azure datacenter that hosts WEBPROD-AS-USE2 experiences a power failure, the maximum number of unavailable virtual machines will be [answer choice].

	▼
2	
7	
10	
14	

Answer:

**Answer Area**

When Microsoft performs planned maintenance in East US 2, the maximum number of unavailable virtual machines will be [answer choice].

	▼
2	
7	
10	
14	

If the server rack in the Azure datacenter that hosts WEBPROD-AS-USE2 experiences a power failure, the maximum number of unavailable virtual machines will be [answer choice].

	▼
2	
7	
10	
14	

**Explanation:**

Box 1: 2

There are 10 update domains. The 14 VMs are shared across the 10 update domains so four update domains will have two VMs and six update domains will have one VM. Only one update domain is rebooted at a time. Therefore, a maximum of two VMs will be offline.

Box 2: 7

There are 2 fault domains. The 14 VMs are shared across the 2 fault domains, so 7 VMs in each fault domain. A rack failure will affect one fault domain so 7 VMs will be offline.

Reference:

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

**QUESTION 261**

Hotspot Question

You plan to deploy an Azure container instance by using the following Azure Resource Manager template.

```
{
  "type": "Microsoft.ContainerInstance/containerGroups",
  "apiVersion": "2018-10-01",
  "name": "webprod",
  "location": "westus",
  "properties": {
    "containers": [
      {
        "name": "webprod",
        "properties": {
          "image": "microsoft/iis:nanoserver",
          "ports": [
            {
              "protocol": "TCP",
              "port": 80
            }
          ],
          "environmentVariables": [],
          "resources": {
            "requests": {
              "memoryInGB": 1.5,
              "cpu": 1
            }
          }
        }
      }
    ],
    "restartPolicy": "OnFailure",
    "ipAddress": {
      "ports": [
        {
          "protocol": "TCP",
          "port": 80
        }
      ],
      "ip": "[parameters('IPAddress')]",
      "type": "Public"
    },
    "osType": "Windows"
  }
}
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the template.

**Answer Area**

Internet users [answer choice].

<input type="text"/>
can connect to the container from any device cannot connect to the container can only connect to the container from devices that run Windows

If Internet Information Services (IIS) in the container fail, [answer choice].

<input type="text"/>
the container will restart automatically the container will only restart manually the container must be redeployed

**Answer:**

**Answer Area**

Internet users [answer choice].

<input type="text"/>
can connect to the container from any device cannot connect to the container can only connect to the container from devices that run Windows

If Internet Information Services (IIS) in the container fail, [answer choice].

<input type="text"/>
the container will restart automatically the container will only restart manually the container must be redeployed

**QUESTION 262**

Hotspot Question

You have a pay-as-you-go Azure subscription that contains the virtual machines shown in the following table.

Name	Resource group	Daily cost
VM1	RG1	20 euros
VM2	RG2	30 euros

You create the budget shown in the following exhibit.

### Budget1

Resource group

 Edit budget

 Delete budget



### BUDGET SUMMARY

Name	Budget1
Scope	RG1 (Resource group)
Filters	-
Amount	1,000.00 EUR
Budget period	Resets billing month
Start date	6/20/2019
End date	6/19/2021

### BUDGET ALERTS

Alert conditions	% OF BUDGET	AMOUNT	ACTION GROUP	ACTION GROUP
	50%	€500	AG1	1 Email
	70%	€700	AG2	1 SMS
	100%	€1,000	AG3	1 Azure app
Alert recipients (email)	User1@Contoso.com			

The AG1 action group contains a user named admin@contoso.com only.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

#### Answer Area

When the maximum amount in Budget1 is reached, [answer choice].

▼

VM1 and VM2 are turned off  
 VM1 and VM2 continue to run  
 VM1 is turned off, and VM2 continues to run

Based on the current usage costs of the virtual machines, [answer choice].

▼

no email notifications will be sent each month  
 one email notification will be sent each month  
 two email notifications will be sent each month  
 three email notifications will be sent each month

Answer:

**Answer Area**

When the maximum amount in Budget1 is reached, [answer choice].

▼
VM1 and VM2 are turned off
VM1 and VM2 continue to run
<b>VM1 is turned off, and VM2 continues to run</b>

Based on the current usage costs of the virtual machines, [answer choice].

▼
no email notifications will be sent each month
<b>one email notification will be sent each month</b>
two email notifications will be sent each month
three email notifications will be sent each month

**Explanation:**

Box 1: VM1 is turned off, and VM2 continues to run

The budget alerts are for Resource Group RG1, which include VM1, but not VM2.

Box 2: one email notification will be sent each month.

Budget alerts for Resource Group RG1, which include VM1, but not VM2. VM1 consumes 20 Euro/day. The 50%, 500 Euro limit, will be reached in 25 days, and an email will be sent.

The 70% and 100% alert conditions will not be reached within a month, and they don't trigger email actions anyway.

Credit alerts: Credit alerts are generated automatically at 90% and at 100% of your Azure credit balance. Whenever an alert is generated, it's reflected in cost alerts and in the email sent to the account owners.

90% and 100% will not be reached though.

Reference:

<https://docs.microsoft.com/en-us/azure/cost-management-billing/costs/cost-mgt-alerts-monitor-usage-spending>

**QUESTION 263**

Hotspot Question

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

**Answer Area**

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

**Answer:**

**Answer Area**

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

**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.

Reference:

<https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview>

**QUESTION 264**

Hotspot Question

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

Minimum number of network interfaces:

	▼
5	
10	
15	
20	

Minimum number of network security groups:

	▼
1	
2	
5	
10	

Answer:

## Answer Area

Minimum number of network interfaces:

	▼
5	
10	
15	
20	

Minimum number of network security groups:

	▼
1	
2	
5	
10	

### Explanation:

Box 1: 5

A public and a private IP address can be assigned to a single network interface.

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.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface-addresses>