

# AZ-900

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### Question 121

CertyIQ

HOTSPOT -

Several support engineers plan to **manage Azure** by using the computers shown in the following table:

| Name      | Operating system |
|-----------|------------------|
| Computer1 | Windows 10       |
| Computer2 | Ubuntu           |
| Computer3 | MacOS Mojave     |

You need to identify which Azure management tools can be used from each computer.

What should you identify for each computer? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

|            |   |   |
|------------|---|---|
| Computer1: | The Azure CLI and the Azure portal                    | v |
|            | The Azure portal and Azure PowerShell                 |   |
|            | The Azure CLI and Azure PowerShell                    |   |
|            | The Azure CLI, the Azure portal, and Azure PowerShell |   |
| Computer2: | The Azure CLI and the Azure portal                    | v |
|            | The Azure portal and Azure PowerShell                 |   |
|            | The Azure CLI and Azure PowerShell                    |   |
|            | The Azure CLI, the Azure portal, and Azure PowerShell |   |
| Computer3: | The Azure CLI and the Azure portal                    | v |
|            | The Azure portal and Azure PowerShell                 |   |
|            | The Azure CLI and Azure PowerShell                    |   |
|            | The Azure CLI, the Azure portal, and Azure PowerShell |   |

## Explanation:

Previously, the Azure CLI (or x-plat CLI) was the only option for managing Azure subscriptions and resources from the command-line on Linux and macOS. Now with the open source and cross-platform release of PowerShell, **you'll be able to manage all your Azure resources from Windows, Linux and macOS using your tool of choice, either the Azure CLI or Azure PowerShell cmdlets.**

**The Azure portal runs in a web browser so can be used in either operating system.**

Reference:

<https://buildazure.com/2016/08/18/powershell-now-open-source-and-cross-platform-linux-macos-windows/>

## Question 122

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

## Answer Area

You can access Compliance Manager  
from the

|                                     |   |
|-------------------------------------|---|
|                                     | ▼ |
| Azure Active Directory admin center |   |
| Azure portal                        |   |
| Microsoft 365 admin center          |   |
| Microsoft Service Trust Portal      |   |

## Explanation:

**Microsoft 365 Admin Center: "Compliance Manager has moved from the Service Trust Portal to its new location in the Microsoft 365 compliance center.** All customer data has been moved over to the new location, so you can continue using Compliance Manager without interruption. Refer to the Compliance Manager documentation for setup information and to learn about new features. Although the classic version of Compliance Manager remains in the Service Trust Portal, all users are encouraged to use Compliance Manager in the Microsoft 365 compliance center."

Reference

<https://docs.microsoft.com/en-us/microsoft-365/compliance/get-started-with-service-trust-portal?view=o365-worldwide>

### Question 123

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

#### Answer Area

|  |
|--|
| <div><div></div><div>Azure policies provide</div><div>Resource groups provide</div><div>Azure Resource Manager templates provide</div><div>Management groups provide</div></div> |
|--|

a common platform for deploying objects to a cloud infrastructure and for implementing consistency across the Azure environment.

## Explanation:

**Azure Resource Manager templates provides a common platform for deploying objects to a cloud infrastructure and for implementing consistency across the Azure environment.**

Azure policies are used to define rules for what can be deployed and how it should be deployed. Whilst this can help in ensuring consistency, Azure policies do not provide the common platform for deploying objects to a cloud infrastructure.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

### Question 124

CertyIQ

DRAG DROP -

Match the Azure service to the correct description.

Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right.

Each service may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

|                 | Answer Options         | Answer Area            |   |
|-----------------|------------------------|------------------------|---|
| Correct Answer: | Azure Machine Learning | Azure Bot Services     | Provides a digital online assistant that provides speech support      |
|                 | Azure IoT Hub          | Azure Machine Learning | Uses past trainings to provide predictions that have high probability |
|                 | Azure Bot Services     | Azure Functions        | Provides serverless computing functionalities                         |
|                 | Azure Functions        | Azure IoT Hub          | Processes data from millions of sensors                               |

## Explanation:

Clue: -

**Azure Bot Services – Speech**

**Azure Machine Learning – Predictions**

**Azure Functions – Serverless Computing**

**Azure IoT Hub – Sensors**

Box 1:

Azure Bot Services provides a digital online assistant that provides speech support.

Bots provide an experience that feels less like using a computer and more like dealing with a person - or at least an intelligent robot. They can be used to shift simple, repetitive tasks, such as taking a dinner reservation or gathering profile information, on to automated systems that may no longer require direct human intervention. Users converse with a bot using text, interactive cards, and speech. A bot interaction can be a quick question and answer, or it can be a sophisticated conversation that intelligently provides access to services.

Box 2:

Azure Machine Learning uses past trainings to provide predictions that have high probability.

Machine learning is a data science technique that allows computers to use existing data to forecast future behaviours, outcomes, and trends. By using machine learning, computers learn without being explicitly programmed.

Forecasts or predictions from machine learning can make apps and devices smarter. For example, when you shop online, machine learning helps recommend other products you might want based on what you've bought.

Box 3:

Azure Functions provides serverless computing functionalities.

Azure Functions is a serverless compute service that lets you run event-triggered code without having to explicitly provision or manage infrastructure.

Box 4:

IoT Hub (Internet of things Hub) provides data from millions of sensors.

IoT Hub is a managed service, hosted in the cloud, that acts as a central message hub for bi-directional communication between your IoT application and the devices it manages. You can use Azure IoT Hub to build IoT solutions with reliable and secure communications between millions of IoT devices and a cloud-hosted solution backend. You can connect virtually any device to IoT Hub.

References:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

<https://docs.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-ml>

<https://docs.microsoft.com/en-us/azure/azure-functions/>

<https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub>

### Question 125

CertyIQ

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

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appear in the review screen.

**An Azure administrator plans to run a PowerShell script that creates Azure resources.**

You need to recommend which computer configuration to use to run the script.

Solution: Run the script from a computer that runs Windows 10 and has the **Azure PowerShell module** installed.

Does this meet the goal?

A. Yes

B. No

## Explanation:

Correct Solutions are:

- ➔ Windows 10 + PowerShell Azure PowerShell module installed OR
- ➔ Linux + PowerShell Azure PowerShell module installed OR
- ➔ Chrome OS + Azure Cloud shell

A PowerShell script is a file that contains PowerShell cmdlets and code. A PowerShell script needs to be run in PowerShell.

**In this question, the computer has the Azure PowerShell module installed. Therefore, this solution does meet the goal.**

References:

<https://docs.microsoft.com/en-us/powershell/scripting/components/ise/how-to-write-and-run-scripts-in-the-windows-powershell-ise?view=powershell-6>

### Question 126

CertyIQ

DRAG DROP -

Match the Azure services to the correct description.

Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right.

Each service may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

#### Services

#### Answer Area

|                           |  |   |
|---------------------------|--|---|
| Azure Functions           |  | Provide operating system virtualization                   |
| Azure App Service         |  | Provide portable environment for virtualized applications |
| Azure virtual machines    |  | Used to build, deploy, and scale web apps                 |
| Azure Container Instances |  | Provide a platform for serverless code                    |

Answer: -



Correct Answer:

| Services             | Answer Area               |   |
|----------------------|---------------------------|---|
| <input type="text"/> | Azure virtual machines    | Provide operating system virtualization                   |
| <input type="text"/> | Azure Container Instances | Provide portable environment for virtualized applications |
| <input type="text"/> | Azure App Service         | Used to build, deploy, and scale web apps                 |
| <input type="text"/> | Azure Functions           | Provide a platform for serverless code                    |

## Explanation:

Clue: -

**Azure Virtual Machine – Operating System**

**Azure Container Instances – Applications**

**Azure App Service – Web Apps**

**Azure Function – Serverless Code**

Box 1:

Azure virtual machines provide operation system virtualization.

Azure Virtual Machines (VM) is one of several types of on-demand, scalable computing resources that Azure offers. Typically, you choose a VM when you need more control over the computing environment than the other choices offer.

Box 2:

Azure Container Instances provide portable environments for virtualized applications.

Containers are becoming the preferred way to package, deploy, and manage cloud applications. Azure Container Instances offers the fastest and simplest way to run a container in Azure, without having to manage any virtual machines and without having to adopt a higher-level service.

Containers offer significant start-up benefits over virtual machines (VMs). Azure Container Instances can start containers in Azure in seconds, without the need to provision and manage VMs.

Box 3:

Azure App Service is used to build, deploy and scale web apps.

Azure App Service is a platform-as-a-service (PaaS) offering that lets you create web and mobile apps for any platform or device and connect to data anywhere, in the cloud or on-premises. App Service includes the web and mobile capabilities that were previously delivered separately as Azure Websites and Azure Mobile Services.

Box 4:

Azure Functions provide a platform for serverless code.

Azure Functions is a serverless compute service that lets you run event-triggered code without having to explicitly provision or manage infrastructure.

References:

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

<https://docs.microsoft.com/en-us/azure/security/fundamentals/paas-applications-using-app-services>

<https://docs.microsoft.com/en-us/azure/azure-functions/>

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-overview>

### Question 127

CertyIQ

Which service provides **serverless computing** in Azure?

A. Azure Virtual Machines

**B. Azure Functions**

- C. Azure storage account
- D. Azure dedicated hosts

## Explanation:

**Correct Answer:** B

**Azure Functions provide a platform for serverless code.**

Azure Functions is a serverless compute service that lets you run event-triggered code without having to explicitly provision or manage infrastructure.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/>

### Question 128

CertyIQ

**An Azure administrator plans to run a PowerShell script that creates Azure resources.** You need to recommend which computer configuration to use to run the script. Which three computers can run the script? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. a computer that runs macOS and has PowerShell Core 6.0 installed.
- B. a computer that runs Windows 10 and has the Azure PowerShell module installed.**
- C. a computer that runs Linux and has the Azure PowerShell module installed.**
- D. a computer that runs Linux and has the Azure CLI tools installed.
- E. a computer that runs Chrome OS and uses Azure Cloud Shell.**

## Explanation:

**Correct Answer:** BCE

A: wrong, you need Azure Powershell Module, Powershell only isn't enough

B: correct, you have Powershell and the module to create Azure resources

C: correct, you have Powershell and the module to create Azure resources

D: wrong, with Azure CLI you don't execute Powershell script

E: correct, **from a browser you can connect to Azure Portal and execute Azure Powershell cmdlet**

### Question 129

CertyIQ

HOTSPOT -

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

Azure Firewall will encrypt all the network traffic sent from Azure to the Internet.

☐☒

A network security group (NSG) will encrypt all the network traffic sent from Azure to the Internet.

☐☒

Azure virtual machines that run Windows Server 2016 can encrypt network traffic sent to the Internet.

☒☐

## Explanation:

Box 1: No -

**Azure firewall does not encrypt network traffic. It is used to block or allow traffic** based on source/destination IP address, source/destination ports and protocol.

Box 2: No -

**A network security group does not encrypt network traffic. It works in a similar way to a firewall** in that it is used to block or allow traffic based on source/ destination IP address, source/destination ports and protocol.

Box 3: Yes -

**Windows 2016 can encrypt data**

There is no VPN gateway required. This is simply asking about encrypting network traffic which pretty much every webserver in existence is able to do, whether it's based on the internet or internal network communications. The two endpoints don't necessarily have to trust each other. It's usually one-sided unless with the server needing to prove its trustworthy, unless there is client cert authentication too. All that needs to happen is that a server presents a public cert on the initial client connection and the client decides whether or not to trust the server during the TLS handshake. This depends on details on the cert such as the CA and available ciphers they agree upon. Once the TLS handshake is completed and both sides have the symmetric keys then the server begins encrypting data and sending it out over the network for the client to decrypt and vice versa.

Can an azure VM that runs windows server 2016 encrypt network traffic? The answer is definitely Yes, or Microsoft would be going quickly out of business.

### Question 130

CertyIQ

HOTSPOT -

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                               |
|--|----------------------------------|----------------------------------|
| Azure Security Center can monitor Azure resources and on-premises resources. | <input checked="" type="radio"/> | <input type="radio"/>            |
| All Azure Security Center features are free.                                 | <input type="radio"/>            | <input checked="" type="radio"/> |
| From Azure Security Center, you can download a Regulatory Compliance report. | <input checked="" type="radio"/> | <input type="radio"/>            |

## Explanation:

Box 1: Yes -

Azure Security Center is a unified infrastructure security management system that strengthens the security posture of your data centers, and **provides advanced threat protection across your hybrid workloads in the cloud - whether they're in Azure or not - as well as on premises.**

Box 2: No -

**Only two features: Continuous assessment and security recommendations, and Azure secure score, are free.**

Box 3: Yes -

The advanced monitoring capabilities in **Security Center also let you track and manage compliance and governance over time.** The overall compliance provides you with a measure of how much your subscriptions are compliant with policies associated with your workload.

References:

<https://docs.microsoft.com/en-us/azure/security-center/security-center-intro>

### Question 131

CertyIQ

You need to configure an Azure solution that meets the following requirements:

Secures websites from attacks -

☞ Generates reports that contain details of attempted **attacks**

What should you include in the solution?

A. Azure Firewall

B. a network security group (NSG)

C. Azure Information Protection

**D. DDoS protection**

## Explanation:

**DDoS is a type of attack that tries to exhaust application resources.** The goal is to affect the application's availability and its ability to handle legitimate requests.

DDoS attacks can be targeted at any endpoint that is publicly reachable through the internet.

Azure has two DDoS service offerings that provide protection from network attacks: DDoS Protection Basic and DDoS

Protection Standard.

DDoS Basic protection is integrated into the Azure platform by default and at no extra cost.

You have the option of paying for DDoS Standard. It has several advantages over the basic service, including logging, alerting, and telemetry. **DDoS Standard can generate reports that contain details of attempted attacks** as required in this question.

References:

<https://docs.microsoft.com/en-us/azure/security/fundamentals/ddos-best-practices>

## Question 132

CertyIQ

HOTSPOT -

You plan to implement several security services for an Azure environment. You need to identify which Azure services must be used to meet the following security requirements:

☞ Monitor threats by using sensors

☞ Enforce Azure Multi-Factor Authentication (MFA) based on a condition

Which Azure service should you identify for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer: -

Monitor threats by using sensors:

|   |
|---|
| Azure Monitor   |
| Azure Security Center                                 |
| Azure Active Directory (Azure AD) Identity Protection |
| <b>Azure Advanced Threat Protection (ATP)</b>         |

Enforce Azure MFA based on a condition:

|  |
|--|
| Azure Monitor  |
| Azure Security Center  |
| <b>Azure Active Directory (Azure AD) Identity Protection</b> |
| Azure Advanced Threat Protection (ATP)                       |

## Explanation:

Box 1:

**To monitor threats by using sensors, you would use Azure Advanced Threat Protection (ATP).**

Azure Advanced Threat Protection (ATP) is a cloud-based security solution that leverages your on-premises Active Directory signals to identify, detect, and investigate advanced threats, compromised identities, and malicious insider actions directed at your organization.

Sensors are software packages you install on your servers to upload information to Azure ATP.

Box 2:

**To enforce MFA based on a condition, you would use Azure Active Directory Identity Protection.**

Azure AD Identity Protection helps you manage the roll-out of Azure Multi-Factor Authentication (MFA) registration by configuring a Conditional Access policy to require MFA registration no matter what modern authentication app you are signing in to.

References:

<https://docs.microsoft.com/en-us/azure-advanced-threat-protection/what-is-atp>

<https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-identity-protection-configure-mfa-policy>

### Question 133

CertvIQ

Your Azure environment contains multiple Azure virtual machines. **You need to ensure that a virtual machine named VM1 is accessible from the Internet over HTTP.**

What are two possible solutions? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Modify an Azure Traffic Manager profile

**B. Modify a network security group (NSG)**

C. Modify a DDoS protection plan

**D. Modify an Azure firewall**

### Explanation:

Correct Answer: BD

**To ensure that a virtual machine named VM1 is accessible from the Internet over HTTP, you need to modify a network security group or Azure Firewall.**

A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network.

You can also attach a network security group to a network interface assigned to a virtual machine. You can use multiple network security groups within a virtual network to restrict traffic between resources such as virtual machines and subnets.

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

In this question, we need to add a rule to the network security group to allow the connection to the virtual machine on port 80 (HTTP).

Reference:

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

### Question 134

CertvIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

## Answer Area

You can enable just in time (JIT) VM access by using

|                       |   |
|-----------------------|---|
|                       | ▼ |
| Azure Bastion         |   |
| Azure Firewall        |   |
| Azure Front Door      |   |
| Azure Security Center |   |

## Explanation:

Correct Answer: Azure Security Center

"Azure Security Center and Azure Defender are now called **Microsoft Defender for Cloud**." "Enable JIT on your VMs - You can enable JIT with your own custom options for one or more VMs using Defender for Cloud, PowerShell, or the REST API. Alternatively, you can enable JIT with default, hard-coded parameters, from Azure virtual machines. When enabled, JIT locks down inbound traffic to your Azure VMs by creating a rule in your network security group."

The just-in-time (JIT) virtual machine (VM) access feature in Azure Security Center allows you to lock down inbound traffic to your Azure Virtual Machines. This reduces exposure to attacks while providing easy access when you need to connect to a VM.

Reference:

<https://docs.microsoft.com/en-us/azure/defender-for-cloud/just-in-time-access-usage?tabs=jit-config-asc%2Cjit-request-asc>

### Question 135

CertyIQ

HOTSPOT -

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                               |
|---|----------------------------------|----------------------------------|
| You can associate a network security group (NSG) to a virtual network subnet. | <input checked="" type="radio"/> | <input type="radio"/>            |
| You can associate a network security group (NSG) to a virtual network.        | <input type="radio"/>            | <input checked="" type="radio"/> |
| You can associate a network security group (NSG) to a network interface.      | <input checked="" type="radio"/> | <input type="radio"/>            |

## Explanation:

Correct Answer: YNY

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/network-security-group-how-it-works>

### Question 136

CertyIQ

You have an Azure environment that contains 10 virtual networks and 100 virtual machines. You need to **limit the amount of inbound traffic** to all the Azure virtual networks.

What should you create?

- A. one application security group (ASG)
- B. 10 virtual network gateways
- C. 10 Azure ExpressRoute circuits

**D. one Azure firewall**

### Explanation:

Correct Answer: D

NSG just block or open a port, **Azure Firewall can "limit the amount of traffic", because it's a stateful firewall. So, the answer is Azure Firewall**

You can restrict traffic to multiple virtual networks with a single Azure firewall.

Azure Firewall is a managed, cloud-based network security service that protects your Azure Virtual Network resources. It's a fully stateful firewall as a service with built-in high availability and unrestricted cloud scalability.

You can centrally create, enforce, and log application and network connectivity policies across subscriptions and virtual networks. Azure Firewall uses a static public IP address for your virtual network resources allowing outside firewalls to identify traffic originating from your virtual network.

References:

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

### Question 137

CertyIQ

This question requires that you evaluate the underlined text to determine if it is correct.

Azure Key Vault is used to store secrets for **Azure Active Directory (Azure AD) user accounts**.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. Azure Active Directory (Azure AD) administrative accounts
- C. Personally Identifiable Information (PII)

**D. server applications**

## Explanation:

Correct Answer: D

Centralizing storage of application secrets in Azure Key Vault allows you to control their distribution. Key Vault greatly reduces the chances that secrets may be accidentally leaked. **When using Key Vault, application developers no longer need to store security information in their application.** Not having to store security information in applications eliminates the need to make this information part of the code. For example, an application may need to connect to a database. Instead of storing the connection string in the app's code, you can store it securely in Key Vault.

References:

<https://docs.microsoft.com/en-us/azure/key-vault/key-vault-overview>

<https://docs.microsoft.com/en-us/learn/modules/manage-secrets-with-azure-key-vault/>

### Question 138

CertyIQ

Your company plans to automate the deployment of servers to Azure. Your manager is concerned that you may expose administrative credentials during the deployment. You need to recommend an Azure solution that **encrypts the administrative credentials** during the deployment.

What should you include in the recommendation?

- A. Azure Key Vault
- B. Azure Information Protection
- C. Azure Security Center
- D. Azure Multi-Factor Authentication (MFA)

## Explanation:

Correct Answer: A

Azure Key Vault is a secure store for storage various types of sensitive information. In this question, **we would store the administrative credentials in the Key Vault.**

With this solution, there is no need to store the administrative credentials as plain text in the deployment scripts.

All information stored in the Key Vault is encrypted.

Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets.

Secrets and keys are safeguarded by Azure, using industry-standard algorithms, key lengths, and hardware security modules (HSMs). The HSMs used are

Federal Information Processing Standards (FIPS) 140-2 Level 2 validated.

Access to a key vault requires proper authentication and authorization before a caller (user or application) can get access. Authentication establishes the identity of the caller, while authorization determines the operations that they are allowed to perform.

References:

<https://docs.microsoft.com/en-us/azure/key-vault/key-vault-overview>



## Question 139

CertyIQ

You plan to deploy several Azure virtual machines. **You need to control the ports that devices on the Internet can use to access the virtual machines.**

What should you use?

- A. a network security group (NSG)
- B. an Azure Active Directory (Azure AD) role
- C. an Azure Active Directory group
- D. an Azure key vault

## Explanation:

Correct Answer: A

**A network security group (NSG) contains a list of security rules that allow or deny network traffic to resources connected to Azure Virtual Networks (VNet).** NSGs can be associated to subnets, individual VMs (classic), or individual network interfaces (NIC) attached to VMs (Resource Manager)

A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network.

You can also attach a network security group to a network interface assigned to a virtual machine. You can use multiple network security groups within a virtual network to restrict traffic between resources such as virtual machines and subnets.

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

References:

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

## Question 140

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

### Answer Area

After you create a virtual machine, you need to modify the

|                              |   |
|------------------------------|---|
|                              | ▼ |
| network security group (NSG) |   |
| virtual network gateway      |   |
| virtual network              |   |
| route table                  |   |

to allow connections to TCP port 8080 on the virtual machine.

## Explanation:

Correct Answer: NSG

Clue: - port=NSG

When you create a virtual machine, the default setting is to create a Network Security Group attached to the network interface assigned to a virtual machine.

A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network.

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

In this question, **we need to add a rule to the network security group to allow the connection to the virtual machine on port 8080.**

Reference:

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

### Question 141

CertyIQ

HOTSPOT -

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                    |
|--|----------------------------------|-----------------------|
| You can create custom Azure roles to control access to resources.    | <input checked="" type="radio"/> | <input type="radio"/> |
| A user account can be assigned to multiple Azure roles.              | <input checked="" type="radio"/> | <input type="radio"/> |
| A resource group can have the Owner role assigned to multiple users. | <input checked="" type="radio"/> | <input type="radio"/> |

## Explanation:

Correct Answer: YYY

Box1: Yes

Custom roles can be done <https://docs.microsoft.com/sv-se/azure/role-based-access-control/custom-roles>

Box2: Yes

A user can have multiple roles <https://docs.microsoft.com/en-us/azure/architecture/multitenant-identity/app-roles>

Box 3: Yes

Owner role can be assigned to multiple users: The Service Administrator and Co-Administrators are assigned the Owner role at the subscription scope Applies to all resource types.

<https://docs.microsoft.com/en-us/azure/role-based-access-control/rbac-and-directory-admin-roles>

## Question 142

CertyIQ

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.

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named **VM1** is accessible from the Internet over HTTP.

Solution: You modify a network security group (NSG).

Does this meet the goal?

A. Yes

B. No

## Explanation:

Correct Answer: Yes

**Clue: - Port /http related access - NSG**

A Network Security Group (NSG) is sufficient to allow the connection to the virtual machine on port 80 (HTTP) from the Internet. Public IP is part of network configuration. We should mainly focus on the functionality of the Network security groups. For sure, you can allow the connection to the VM through port 80 using NSG. Tutorial from Microsoft that demonstrates the same case (with public IP) and NSG used (no firewall!): <https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-filter-network-traffic>

A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network.

You can also attach a network security group to a network interface assigned to a virtual machine. You can use multiple network security groups within a virtual network to restrict traffic between resources such as virtual machines and subnets.

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

In this question, we need to add a rule to the network security group to allow the connection to the virtual machine on port 80 (HTTP).

References:

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

## Question 143

CertyIQ

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.

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named **VM1 is accessible from the Internet over HTTP**.

Solution: You modify a **DDoS protection plan**.

Does this meet the goal?

A. Yes

**B. No**

## Explanation:

Correct Answer: No

### You Should Modify NSG or Azure Firewall

**Create new NSG** --> add inbound security rule & allow HTTP --> associate with appropriate subnet

DDoS is a form of attack on a network resource. **A DDoS protection plan is used to protect against DDoS attacks; it does not provide connectivity to a virtual machine.**

To ensure that a virtual machine named VM1 is accessible from the Internet over HTTP, you need to modify a network security group or Azure Firewall.

References:

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

## Question 144

CertyIQ

You need to **collect and automatically analyze security events** from Azure Active Directory (Azure AD).

What should you use?

**A. Azure Sentinel**

B. Azure Synapse Analytics

C. Azure AD Connect

D. Azure Key Vault

## Explanation:

Correct Answer: A

Microsoft Azure Sentinel is a scalable, cloud-native, security information event management (SIEM) and security orchestration automated response (SOAR) solution. Azure Sentinel delivers intelligent security analytics and threat intelligence across the enterprise, providing a single solution for alert detection, threat visibility, proactive hunting, and threat response. Azure Sentinel comes with a number of connectors for Microsoft solutions, available out of the box and providing real-time integration, including Microsoft 365 Defender (formerly Microsoft Threat Protection) solutions, and Microsoft 365 sources, including Office 365, Azure AD, Microsoft Defender for Identity (formerly Azure ATP), and Microsoft Cloud App Security, and more.

<https://docs.microsoft.com/en-us/azure/sentinel/overview>

## Question 145

CertyIQ

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.

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named **VM1** is accessible from the Internet over HTTP.

Solution: **You modify an Azure firewall.**

Does this meet the goal?

**A. Yes**

B. No

## Explanation:

Correct Answer: Yes

**You can either modify a firewall or modify a NSG.** For basic allow/deny traffic, NSG is enough. But the same can be achieved with Firewall as well. "The Azure Firewall service complements network security group functionality. Together, they provide better "defence-in-depth" network security. Network security groups provide distributed network layer traffic filtering to limit traffic to resources within virtual networks in each subscription. Azure Firewall is a fully stateful, centralized network firewall as-a-service, which provides network- and application-level protection across different subscriptions and virtual networks." <https://docs.microsoft.com/en-us/azure/firewall/firewall-faq>

Azure Firewall is a managed, cloud-based network security service that protects your Azure Virtual Network resources. It's a fully stateful firewall as a service with built-in high availability and unrestricted cloud scalability.

In this question, we need to add a rule to Azure Firewall to allow the connection to the virtual machine on port 80 (HTTP).

References:

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

## Question 146

CertyIQ

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.

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named **VM1** is accessible from the Internet over HTTP.

Solution: **You modify an Azure Traffic Manager profile.**

Does this meet the goal?

A. Yes

**B. No**

## Explanation:

Correct Answer: No

**Instead, we have to modify NSG or Azure Firewall.**

Traffic Manager is used to distribute traffic at DNS level across different regions.

A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network.

You can also attach a network security group to a network interface assigned to a virtual machine. You can use multiple network security groups within a virtual network to restrict traffic between resources such as virtual machines and subnets.

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

References:

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

### Question 147

CertyIQ

Your company plans to deploy **several web servers and several database** servers to Azure.

You need to recommend an Azure solution to **limit the types of connections** from the web servers to the database servers.

What should you include in the recommendation?

**A. network security groups (NSGs)**

B. Azure Service Bus

C. a local network gateway

D. a route filter

## Explanation:

Correct Answer: A

Keyword is "several". You will want to use a group for multiple VMs traffic rules.

**A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network.**

You can also attach a network security group to a network interface assigned to a virtual machine. You can use multiple network security groups within a virtual network to restrict traffic between resources such as virtual machines and subnets.

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

References:

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



## Question 148

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

### Answer Area

From

|                          |
|--------------------------|
| Azure Access Control IAM |
| Azure Event Hubs         |
| Azure Activity Log       |
| Azure Service Health     |

you can view which user turned off a specific virtual machine during the last 14 days.

## Explanation:

Correct Answer: Azure Activity Log

**You can use the Azure Activity Log, to view which user turned off a specific virtual machine during the last 14 days. Activity logs are kept for 90 days.** You can query for any range of dates, as long as the starting date isn't more than 90 days in the past.

In this question, we would create a filter to display shutdown operations on the virtual machine in the last 14 days.

Reference:

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

## Question 149

CertyIQ

Which service provides **network traffic filtering** across multiple Azure subscriptions and virtual networks?

- A. Azure Firewall
- B. an application security group
- C. Azure DDoS protection
- D. a network security group (NSG)

## Explanation:

Correct Answer: A

**You can restrict traffic to multiple virtual networks in multiple subscriptions with a single Azure firewall.**

Azure Firewall is a managed, cloud-based network security service that protects your Azure Virtual Network resources. It's a fully stateful firewall as a service with built-in high availability and unrestricted cloud scalability.

You can centrally create, enforce, and log application and network connectivity policies across subscriptions and virtual networks. Azure Firewall uses a static public IP address for your virtual network resources allowing outside firewalls to identify traffic originating from your virtual network.

References:

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

## Question 150

CertyIQ

Which Azure service should you use to **store certificates**?

- A. Azure Security Center
- B. an Azure Storage account
- C. Azure Key Vault**
- D. Azure Information Protection

**Explanation:** Correct Answer: C

**Azure Key Vault is a secure store for storage various types of sensitive information including passwords and certificates.**

Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets.

Secrets and keys are safeguarded by Azure, using industry-standard algorithms, key lengths, and hardware security modules (HSMs). The HSMs used are

Federal Information Processing Standards (FIPS) 140-2 Level 2 validated.

Access to a key vault requires proper authentication and authorization before a caller (user or application) can get access. Authentication establishes the identity of the caller, while authorization determines the operations that they are allowed to perform.

References:

<https://docs.microsoft.com/en-us/azure/key-vault/key-vault-overview>

## Question 151

CertyIQ

Which Azure service can you use as a **security information and event management (SIEM) solution**?

- A. Azure Analysis Services
- B. Azure Sentinel**
- C. Azure Information Protection
- D. Azure Cognitive Services

**Explanation:** Correct Answer: B

**Clue: - Azure Sentinel → SIEM & SOAR**

Microsoft Azure Sentinel is a scalable, cloud-native, security information event management (SIEM) and security orchestration automated response (SOAR) solution.

Reference:

<https://azure.microsoft.com/en-in/services/azure-sentinel/>

## Question 152

CertyIQ

What can Azure Information Protection encrypt?

- A. network traffic
- B. documents and email messages**
- C. an Azure Storage account
- D. an Azure SQL database

**Explanation:** Correct Answer: B

Azure Information Protection can encrypt documents and emails.

**Azure Information Protection** is a cloud-based solution that **helps an organization to classify and optionally, protect its documents and emails by applying labels.**

Labels can be applied automatically by administrators who define rules and conditions, manually by users, or a combination where users are given recommendations.

The protection technology uses Azure Rights Management (often abbreviated to Azure RMS). This technology is integrated with other Microsoft cloud services and applications, such as Office 365 and Azure Active Directory.

This protection technology uses encryption, identity, and authorization policies. Similarly, to the labels that are applied, protection that is applied by using Rights

Management stays with the documents and emails, independently of the location "inside or outside your organization, networks, file servers, and applications.

References:

<https://docs.microsoft.com/en-us/azure/information-protection/what-is-information-protection>

<https://docs.microsoft.com/en-us/azure/information-protection/quickstart-label-dnf-protectedemail>

## Question 153

CertyIQ

What should you use to evaluate whether **your company's Azure environment meets regulatory requirements?**

- A. the Knowledge Center website
- B. the Advisor blade from the Azure portal
- C. Compliance Manager from the Service Trust Portal**
- D. the Solutions blade from the Azure portal

**Explanation:**

Correct Answer: C

Microsoft 365 compliance is now called **Microsoft Purview**

Compliance Manager in the Service Trust Portal is a **workflow-based risk assessment tool** that helps you track, assign, and verify your organization's regulatory compliance activities related to Microsoft Cloud services, such as Microsoft 365, Dynamics 365, and Azure.

Reference:

<https://docs.microsoft.com/en-us/microsoft-365/compliance/get-started-with-service-trust-portal?view=o365-worldwide>

## Question 154

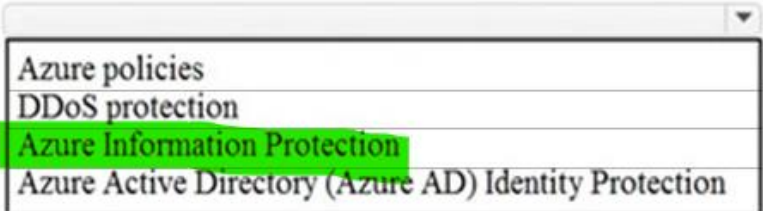
CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

### Answer Area

Your company implements  to

automatically add a watermark to Microsoft Word documents that contain credit card information.

### Explanation:

Correct Answer: Azure Information Protection

**Azure Information Protection is used to automatically add a watermark to Microsoft Word documents that contain credit card information.**

**You use Azure Information Protection labels to apply classification to documents and emails.** When you do this, the classification is identifiable regardless of where the data is stored or with whom it's shared. The labels can include visual markings such as a header, footer, or watermark.

Labels can be applied automatically by administrators who define rules and conditions, manually by users, or a combination where users are given recommendations. In this question, we would configure a label to be automatically applied to Microsoft Word documents that contain credit card information. The label would then add the watermark to the documents.

Reference:

<https://docs.microsoft.com/en-us/azure/information-protection/what-is-information-protection>

<https://docs.microsoft.com/en-us/azure/information-protection/infoprotect-quick-start-tutorial>

## Question 155

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

## Answer Area

You have an Azure virtual network named VNET1 in a resource group named RG1. You assign the Azure Policy definition of Not Allowed Resource Type and specify that virtual networks are not an allowed resource type in RG1. VNET1

- is deleted automatically.
- is moved automatically to another resource group.
- continues to function normally.
- is now a read-only object.

## Explanation:

Correct Answer: Continues to Function Normally

**The VNet will be marked as 'non-compliant' when the policy is assigned. However, it will not be deleted and will continue to function normally.**

Azure Policy is a service in Azure that you use to create, assign, and manage policies. These policies enforce different rules and effects over your resources, so those resources stay compliant with your corporate standards and service level agreements.

If there are any existing resources that aren't compliant with a new policy assignment, they appear under non-compliant resources.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

<https://docs.microsoft.com/en-us/azure/governance/policy/assign-policy-portal>

## Question 156

CertyIQ

Your company has an Azure subscription that contains resources in several regions.

A company **policy** states that administrators must only be allowed to create additional Azure resources in a region in the country where their office is located.

You need to create the Azure resource that must be used to meet the **policy requirement**.

What should you create?

- A. a read-only lock
- B. an Azure policy
- C. a management group
- D. a reservation

## Explanation:

Correct Answer: B

**Azure Policy offers several built-in policies that are available by default. In this question, we would use the 'Allowed Locations' policy to define the locations where resources can be deployed.**

Azure policies can be used to define requirements for resource properties during deployment and for already existing resources. Azure Policy controls properties such as the types or locations of resources.

Azure Policy is a service in Azure that you use to create, assign, and manage policies. These policies enforce different rules and effects over your resources, so those resources stay compliant with your corporate standards and service level agreements. Azure Policy meets this need by evaluating your resources for non-compliance with assigned policies. All data stored by Azure Policy is encrypted at rest.

References:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

### Question 157

CertyIQ

This question requires that you evaluate the underlined text to determine if it is correct.

From Azure Cloud Shell, you can track your company's regulatory standards and regulations, such as ISO 27001.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed" If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed.
- B. the Microsoft Cloud Partner Portal
- C. Compliance Manager

**D. the Trust Center**

### Explanation:

Correct Answer: D

**The Trust Center provides: In-depth information about security, privacy, compliance offerings, policies, features, and practices across Microsoft cloud products.**

References: <https://docs.microsoft.com/en-us/learn/modules/examine-privacy-compliance-data-protection-standards/4-explore-trust-center?ns-enrollment-type=LearningPath>

### Question 158

CertyIQ

HOTSPOT -

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                               |
|---|----------------------------------|----------------------------------|
| You can create Group Policies in Azure Active Directory (Azure AD).   | <input type="radio"/>            | <input checked="" type="radio"/> |
| You can join Windows 10 devices to Azure Active Directory (Azure AD). | <input checked="" type="radio"/> | <input type="radio"/>            |
| You can join Android devices to Azure Active Directory (Azure AD).    | <input type="radio"/>            | <input checked="" type="radio"/> |



## Explanation:

Correct Answer: NYN

Box1: - N, you do it with Azure Active Directory **Domain Services** (Azure AD DS)

Box2: - Y, Azure AD join only applies to Windows 10 devices.

Box3: - N, you can **REGISTER** iOS, Android, and MacOS devices, **NOT JOIN** them but we can join windows 10 devices.

- <https://docs.microsoft.com/en-us/azure/active-directory-domain-services/manage-group-policy>

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

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

### Question 159

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

### Answer Area

The

|   |
|---|
| Microsoft Online Services Privacy Statement       |
| Microsoft Online Services Terms                   |
| Microsoft Online Service Level Agreement          |
| Online Subscription Agreement for Microsoft Azure |

explains what data Microsoft processes, how Microsoft processes the data, and the purpose of processing the data.

## Explanation:

Correct Answer: Microsoft Online Services Privacy Statement

Clue: - data = privacy

**The Microsoft Privacy Statement explains what personal data Microsoft processes, how Microsoft processes the data, and the purpose of processing the data**

Reference:

<https://privacy.microsoft.com/en-us/privacystatement>

### Question 160

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

## Answer Area

|                |
|----------------|
| Authorization  |
| Authentication |
| Federation     |
| Ticketing      |

is the process of verifying a user's credentials.

## Explanation:

Correct Answer: Authentication

**Authentication, is the process of verifying a user's credentials.**

The difference between authentication and authorization is:

Authentication is proving your identity, proving that you are who you say you are. The most common example of this is logging in to a system by providing

- credentials such as a username and password.

⇒ Authorization is what you're allowed to do once you've been authenticated. For example, what resources you're allowed to access and what you can do with those resources.

# End of Part 4



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