

# AZ-900

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### Question 41

CertyIQ

HOTSPOT -

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

Hot Area:

#### Answer Area

You plan to deploy 20 virtual machines to an Azure environment. To ensure that a virtual machine named VM1 cannot connect to the other virtual machines, VM1 must

- be deployed to a separate virtual network.
- run a different operating system than the other virtual machines.
- be deployed to a separate resource group.
- have two network interfaces.

**Explanation:** Azure automatically routes traffic between subnets in a virtual network. Therefore, all virtual machines in a virtual network can connect to the other virtual machines in the same virtual network. Even if the virtual machines are on separate subnets within the virtual network, they can still communicate with each other.

**To ensure that a virtual machine cannot connect to the other virtual machines, the virtual machine must be deployed to a separate virtual network.**

Reference:

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

## Question 42

CertyIQ

HOTSPOT -

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

Hot Area:

### Answer Area

When you need to delegate permissions to several Azure virtual machines simultaneously, you must deploy the Azure virtual machines

- to the same Azure region.
- by using the same Azure Resource Manager template.
- to the same resource group.
- to the same availability zone.

**Explanation:** A resource group is a logical container for Azure resources. Resource groups make the management of Azure resources easier.

With a resource group, you can allow a user to manage all resources in the resource group, such as virtual machines, websites, and subnets. **The permissions you apply to the resource group apply to all resources contained in the resource group.**

## Question 43

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.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the **virtual machines are available if a single data center fails.**

Solution: You deploy the virtual machines to two or more **availability zones.**

Does this meet the goal?

A. Yes

B. No

**Explanation:** Availability Zones represent multiple Data Centers (up to 3) inside a Region, so that if a DC fail, another DC supply the services in a HA environment.

Availability zones expand the level of control you have to maintain the availability of the applications and data on your VMs. An Availability Zone is a physically separate zone, within an Azure region. There are three Availability Zones per supported Azure region.

**Each Availability Zone has a distinct power source, network, and cooling.** By architecting your solutions to use

replicated VMs in zones, you can protect your apps and data from the loss of a datacenter. If one zone is compromised, then replicated apps and data are instantly available in another zone.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/availability>

## Question 44

CertyIQ

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

**One of the benefits of Azure SQL Data Warehouse is that high availability is built into the platform.**

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. automatic scaling

C. data compression

D. versioning

**Explanation:** Azure Data Warehouse (now known as Azure Synapse Analytics) is a PaaS offering from Microsoft. As with all PaaS services from Microsoft, SQL Data Warehouse offers an availability SLA of 99.9%. Microsoft can offer 99.9% availability because it has **high availability features built into the platform.**

References:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-faq>

## Question 45

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.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the **virtual machines are available if a single data center fails.**

Solution: **You deploy the virtual machines to two or more regions.**

Does this meet the goal?

A. Yes

B. No

## Explanation:

**By deploying the virtual machines to two or more regions, you are deploying the virtual machines to multiple datacenters. This will ensure that the services running on the virtual machines are available if a single data center fails.**

Azure operates in multiple datacenters around the world. These datacenters are grouped in to geographic regions, giving you flexibility in choosing where to build your applications.

You create Azure resources in defined geographic regions like 'West US', 'North Europe', or 'Southeast Asia'. You can review the list of regions and their locations.

Within each region, multiple datacenters exist to provide for redundancy and availability.

## Question 46

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 resources can only access other resources in the same resource group.	<input type="radio"/>	<input checked="" type="radio"/>
If you delete a resource group, all the resources in the resource group will be deleted.	<input checked="" type="radio"/>	<input type="radio"/>
A resource group can contain resources from multiple Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>

## Explanation:

Box 1: No -

**A resource can interact with resources in other resource groups.**

Box 2: Yes -

**Deleting the resource group will remove the resource group as well as all the resources in that resource group.** This can be useful for the management of resources. For example, a virtual machine has several components (the VM itself, virtual disks, network adapter etc.). By placing the VM in its own resource group, you can delete the VM along with all its associated components by deleting the resource group.

Another example is when creating a test environment. You could place the entire test environment (Network components, virtual machines etc.) in one resource group. You can then delete the entire test environment by deleting the resource group.

Box 3: Yes -

**Resources from multiple different regions can be placed in a resource group.** The resource group only contains metadata about the resources it contains.

References:

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

<https://www.codeisahighway.com/effective-ways-to-delete-resources-in-a-resource-group-on-azure/>

## Question 47

CertyIQ

You plan to store 20 TB of data in Azure. The data will be accessed infrequently and visualized by using Microsoft Power BI. You need to recommend a storage solution for the data.

Which two solutions should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Data Lake

B. Azure Cosmos DB

C. Azure SQL Data Warehouse

D. Azure SQL Database

E. Azure Database for PostgreSQL

## Explanation:

Azure SQL Data Warehouse is now **Azure Synapse Analytics**, please mark it in the exam accordingly.

**You can use Power BI to analyze and visualize data stored in Azure Data Lake and Azure SQL Data Warehouse.**

Azure Data Lake includes all of the capabilities required to make it easy for developers, data scientists and analysts to store data of any size and shape and at any speed, and do all types of processing and analytics across platforms and languages. It removes the complexities of ingesting and storing all your data while making it faster to get up and running with batch, streaming and interactive analytics. It also integrates seamlessly with operational stores and data warehouses so that you can extend current data applications.

References:

<https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-power-bi>

<https://azure.microsoft.com/en-gb/solutions/data-lake/>

<https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-power-bi>

### Question 48

CertyIQ

HOTSPOT -

You have an Azure environment that contains 10 web apps. To which URL should you connect to manage all the Azure resources? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

https://   com

admin.	azure.
portal.	azurewebsites.
www.	microsoft.

### Question 49

CertyIQ

You need to identify the type of failure for which an **Azure Availability Zone** can be used to protect access to Azure services.

What should you identify?

A. a physical server failure

B. an Azure region failure

C. a storage failure

D. an Azure data center failure

**Explanation:** Availability Zones is a high-availability offering that protects your applications and data from datacenter failures.

it always follows this thinking pattern:

Regions > Zones > Data Centre

**Each Availability Zone has a distinct power source, network, and cooling.** By architecting your solutions to use replicated VMs in zones, you can protect your apps and data from the loss of a datacenter. **If one zone is compromised, then replicated apps and data are instantly available in another zone.**

Reference:

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

## Question 50

CertyIQ

HOTSPOT -

You plan to extend your company's network to Azure. The network contains a VPN appliance that uses an IP address of 131.107.200.1.

You need to create an Azure resource **that defines the VPN appliance in Azure.**

Which Azure resource should you create? To answer, select the appropriate resource in the answer area.

Hot Area:

NETWORKING (20)

Virtual networks ★	Virtual networks (classic) ★
Load balancers ★	Application gateways ★
Virtual network gateways ★	Local network gateways ★
DNS zones ★	CDN profiles ★
Traffic Manager profiles ★	ExpressRoute circuits ★
Network Watcher ★	Network security groups ★
Network security groups (classic) ★	Network interfaces ★
Public IP addresses ★	Reserved IP addresses (classic) ★
Connections ★	On-premises Data Gateways ★
Route tables ★	Route filters ★

**Explanation:** Local network gateway is correct!

**A Local Network Gateway is an object in Azure that represents your on-premise VPN device (Appliance).** A Virtual Network Gateway is the VPN object at the Azure end of the VPN. A 'connection' is what connects the Local Network



Gateway the Virtual Network Gateway to bring up the VPN.

The local network gateway typically refers to your on-premises location. You give the site a name by which Azure can refer to it, then specify the IP address of the on-premises VPN device to which you will create a connection. You also specify the IP address prefixes that will be routed through the VPN gateway to the VPN device. The address prefixes you specify are the prefixes located on your on-premises network. If your on-premises network changes or you need to change the public IP address for the VPN device, you can easily update the values later.

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal>

## Question 51

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.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on **the virtual machines are available if a single data center fails**.

Solution: You deploy the virtual machines to two or more **resource groups**.

Does this meet the goal?

A. Yes

**B. No**

## Explanation:

The question is asking us to address High availability. **Resource group does not address high availability.**

**Region or Availability Zone** is correct option here.

A resource group is a logical container for Azure resources. When you create a resource group, you specify which location to create the resource group in.

However, when you create a virtual machine and place it in the resource group, the virtual machine can still be in a different location (different datacenter).

Therefore, creating multiple resource groups, even if they are in separate datacenters does not ensure that the services running on the virtual machines are available if a single data center fails.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview#resource-groups>

## Question 52

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.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the **virtual machines are available if a single data center fails**.

Solution: You deploy the virtual machines to a **scale set**.  
Does this meet the goal?

A. Yes

**B. No**

## Explanation:

Scale set does not guaranty availability if a Datacentres fails.

Region or Availability Zone is correct option here.

### Question 53

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
An Azure subscription can be associated to multiple Azure Active Directory (Azure AD) tenants.	<input type="radio"/>	<input checked="" type="radio"/>
You can change the Azure Active Directory (Azure AD) tenant to which an Azure subscription is associated.	<input checked="" type="radio"/>	<input type="radio"/>
When an Azure subscription expires, the associated Azure Active Directory (Azure AD) tenant is deleted automatically.	<input type="radio"/>	<input checked="" type="radio"/>

## Explanation:

Box 1: No - **An Azure AD tenant can have multiple subscriptions but an Azure subscription can only be associated with one Azure AD tenant (Tenant = Customer)**

Box 2: Yes - <https://docs.microsoft.com/en-us/azure/role-based-access-control/transfer-subscription>

Box 3: No - **If your subscription expires, you lose access to all the other resources associated with the subscription. However, the Azure AD directory remains in Azure.** You can associate and manage the directory using a different Azure subscription.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-how-subscriptions-associated-directory>

### Question 54

CertyIQ



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

**Resource groups provide organizations with the ability to manage the compliance of Azure resources across multiple subscriptions.**

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. Management groups**

C. Azure policies

D. Azure App Service plans

**Explanation:** B

Key word is **ACCROSS MULTIPLE SUBSCRIPTIONS**.

**Having the ability to manage compliance across multiple subscriptions** is THE DEFINITION of management groups.

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

If your organization has many subscriptions, you may need a way to efficiently manage access, policies, and compliance for those subscriptions. Azure management groups provide a level of scope above subscriptions.

Yes we need Azure Policies to manage compliance of Azure Resources this is why its confusing, but only Management Groups provides a simple way (or "the ability") to do it across multiple subscriptions, else you would have to go one by one...SO yes ANSWER is B per the DEFINITION of Management groups, even though it's not a sufficient condition.

## Question 55

CertyIQ

Your company plans to migrate to Azure. The company has several departments. All the Azure resources used by each department will be managed by a department administrator.

What are two possible techniques to **segment Azure for the departments**? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

**A. multiple subscriptions**

B. multiple Azure Active Directory (Azure AD) directories

C. multiple regions

**D. multiple resource groups**

**Explanation:**

**Each Department can have its own Subscription. OR Each Department can have its own Resource Group.**

An Azure subscription is a container for Azure resources. It is also a boundary for permissions to resources and for billing. You are charged monthly for all resources in a subscription. A single Azure tenant (Azure Active Directory) can contain multiple Azure subscriptions.

A resource group is a container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group.

To enable each department administrator to manage the Azure resources used by that department, you will need to create a separate subscription per department. You can then assign each department administrator as an administrator for the subscription to enable them to manage all resources in that subscription.

### Question 56

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
A single Microsoft account can be used to manage multiple Azure subscriptions.	<input checked="" type="radio"/>	<input type="radio"/>
Two Azure subscriptions can be merged into a single subscription.	<input type="radio"/>	<input checked="" type="radio"/>
A company can use resources from multiple subscriptions.	<input checked="" type="radio"/>	<input type="radio"/>

### Explanation:

Box 1: Yes -

**You can use the same account to manage multiple subscriptions.** You can create an additional subscription for your account in the Azure portal. You may want an additional subscription to avoid hitting subscription limits, to create separate environments for security, or to isolate data for compliance reasons.

Box 2: No -

**You cannot merge two subscriptions into a single subscription.** However, you can move some Azure resources from one subscription to another. You can also transfer ownership of a subscription and change the billing type for a subscription.

Box 3: Yes -

**A company can have multiple subscriptions and store resources in the different subscriptions.** However, a resource instance can exist in only one subscription.

Reference:

<https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/create-subscription>

### Question 57

CertyIQ

HOTSPOT -

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

Hot Area:

### Answer Area

You have several virtual machines in an Azure subscription.  
You create a new subscription.

The virtual machines cannot be moved to the new subscription.
The virtual machines can be moved to the new subscription.
The virtual machines can be moved to the new subscription only if they are all in the same resource group.
The virtual machines can be moved to the new subscription only if they run Windows Server 2016.

## Explanation:

**You can move a VM and its associated resources to a different subscription by using the Azure portal.**

Moving between subscriptions can be handy if you originally created a VM in a personal subscription and now want to move it to your company's subscription to continue your work. You do not need to start the VM in order to move it and it should continue to run during the move.

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

### Question 58

CertyIQ

You have an Azure environment that contains multiple Azure virtual machines.

**You plan to implement a solution that enables the client computers on your on-premises network to communicate to the Azure virtual machines.**

You need to recommend which Azure resources must be created for the planned solution.

Which two Azure resources should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. a virtual network gateway

B. a load balancer

C. an application gateway

D. a virtual network

E. a gateway subnet

## Explanation:

**If you already have Azure VMs, this implies you have a VNet already. Thus, the answer should be Gateway Subnet and VNet Gateway.**

To implement a solution that enables the client computers on your on-premises network to communicate to the Azure

virtual machines, you need to configure a VPN (Virtual Private Network) to connect the on-premises network to the Azure virtual network. The Azure VPN device is known as a Virtual Network Gateway. The virtual network gateway needs to be located in a dedicated subnet in the Azure virtual network. This dedicated subnet is known as a gateway subnet and must be named 'GatewaySubnet'.

Note: a virtual network (answer D) is also required. However, as we already have virtual machines deployed in a Azure, we can assume that the virtual network is already in place.

References:

<https://docs.microsoft.com/en-us/office365/enterprise/connect-an-on-premises-network-to-a-microsoft-azure-virtual-network>

### Question 59

CertyIQ

You attempt to create several managed Microsoft SQL Server instances in an Azure environment and receive a message that you must increase your Azure subscription limits. What should you do to increase the limits?

- A. Create a service health alert
- B. Upgrade your support plan
- C. Modify an Azure policy
- D. Create a new support request**

## Explanation:

If you want to raise the limit or quota above the default limit, open an online customer support request at no charge.

<https://docs.microsoft.com/en-us/azure/azure-subscription-service-limits>

Many Azure resource have quote limits. The purpose of the quota limits is to help you control your Azure costs. However, it is common to require an increase to the default quota.

You can request a quota limit increase by opening a support request. In the support request, select 'Service and subscription limits (quotas)' for the Issue type, select your subscription and the service you want to increase the quota for. For this question, you would select 'SQL Database Managed Instance' as the quote type.

Reference:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance-resource-limits#obtaining-a-larger-quota-for-sql-managed-instance>

### Question 60

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
Each Azure subscription can contain multiple account administrators.	<input type="radio"/>	<input checked="" type="radio"/>
Each Azure subscription can be managed by using a Microsoft account only.	<input type="radio"/>	<input checked="" type="radio"/>
An Azure resource group contains multiple Azure subscriptions.	<input type="radio"/>	<input checked="" type="radio"/>

## Explanation:

Box 1: No - **You can only have one account administrator per subscription:**

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

Box 2: No -

**You need an Azure Active Directory account to manage a subscription, not a Microsoft account.**

An account is created in the Azure Active Directory when you create the subscription. Further accounts can be created in the Azure Active Directory to manage the subscription.

Box 3: No -

Resource groups are logical containers for Azure resources. However, **resource groups do not contain subscriptions. Subscriptions contain resource groups.**

References: <https://docs.microsoft.com/en-us/office365/enterprise/subscriptions-licenses-accounts-and-tenants-for-microsoft-cloud-offerings>

## Question 61

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
Availability zones can be implemented in all Azure regions.	<input type="radio"/>	<input checked="" type="radio"/>
Only virtual machines that run Windows Server can be created in availability zones.	<input type="radio"/>	<input checked="" type="radio"/>
Availability zones are used to replicate data and applications to multiple regions.	<input type="radio"/>	<input checked="" type="radio"/>

## Explanation:

1.) **Not all Regions support Availability zones**

2.) **Availability zones can be used with many Azure services, not just VMs.**

3.) Availability zones are used to replicate data and applications in **the same region (and not multiple regions)**

**Regions > Zones > Data Centre**

## Question 62

CertyIQ

HOTSPOT -





You plan to create an Azure virtual machine.

You need to identify which storage service must be used to store the **unmanaged data disks of the virtual machine**.




What should you identify? To answer, select the appropriate service in the answer area.

Hot Area:

### Answer Area

 <b>Containers</b> Scalable, cost-effective storage for unstructured data <a href="#">Learn more</a>	 <b>File shares</b> Serverless SMB file shares <a href="#">Learn more</a>
 <b>Tables</b> Tabular data storage <a href="#">Learn more</a>	 <b>Queues</b> Effectively scale apps according to traffic <a href="#">Learn more</a>

Correct Answer:

 <b>Containers</b> Scalable, cost-effective storage for unstructured data <a href="#">Learn more</a>	 <b>File shares</b> Serverless SMB file shares <a href="#">Learn more</a>
 <b>Tables</b> Tabular data storage <a href="#">Learn more</a>	 <b>Queues</b> Effectively scale apps according to traffic <a href="#">Learn more</a>

## Explanation:

**Azure containers are the backbone of the virtual disks platform for Azure IaaS.** Both Azure OS and data disks are implemented as virtual disks where data is durably persisted in the Azure Storage platform and then delivered to the virtual machines for maximum performance. Azure Disks are persisted in Hyper-V VHD format and stored as a page blob in Azure Storage.

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-pageblob-overview>

## Question 63

CertyIQ

Your company plans to move several servers to Azure.

The company's compliance policy states that a server named FinServer must be on a **separate network** segment.

You are evaluating which Azure services can be used to meet the compliance policy requirements.

Which Azure solution should you recommend?



- A. a resource group for FinServer and another resource group for all the other servers
- B. a virtual network for FinServer and another virtual network for all the other servers**
- C. a VPN for FinServer and a virtual network gateway for each other server
- D. one resource group for all the servers and a resource lock for FinServer

## Explanation:

**Networks in Azure are known as virtual networks.** A virtual network can have multiple IP address spaces and multiple subnets. Azure automatically routes traffic between different subnets within a virtual network.

The question states that FinServer must be on a separate network segment. The only way to separate FinServer from the other servers in networking terms is to place the server in a different virtual network to the other servers.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

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### Question 64

CertvIQ

You plan to map a network drive from several computers that **run Windows 10 to Azure Storage**. You need to create a storage solution in Azure for the planned mapped drive. What should you create?

- A. an Azure SQL database
- B. a virtual machine data disk
- C. a Files service in a storage account**
- D. a Blobs service in a storage account

## Explanation:

Azure Files is Microsoft's easy-to-use cloud file system. Azure file shares can be seamlessly used in Windows and Windows Server.

To use an Azure file share with Windows, you must either mount it, which means assigning it a drive letter or mount point path, or access it via its UNC path.

Unlike other SMB shares you may have interacted with, such as those hosted on a Windows Server, Linux Samba server, or NAS device, Azure file shares do not currently support Kerberos authentication with your Active Directory (AD) or Azure Active Directory (AAD) identity, although this is a feature we are working on.

Instead, you must access your Azure file share with the storage account key for the storage account containing your Azure file share. A storage account key is an administrator key for a storage account, including administrator permissions to all files and folders within the file share you're accessing, and for all file shares and other storage resources (blobs, queues, tables, etc) contained within your storage account.

References:

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

## Question 65

CertyIQ

HOTSPOT -

You plan to implement an Azure database solution.

You need to implement a database solution that meets the following requirements:




- ☞ Can add data concurrently from **multiple regions**
- ☞ Can store JSON documents

Which database service should you deploy? To answer, select the appropriate service in the answer area.

Hot Area:

Correct Answer:

DATABASES (16)

 Azure Cosmos DB ★	 SQL databases ★
 Azure Database for MySQL servers ★	 Azure Database for PostgreSQL servers ★
 Azure Database for MariaDB servers ★	 SQL servers ★
 SQL Data warehouses ★	 Azure Database Migration Services ★
 Azure Cache for Redis ★	 SQL Server stretch databases ★
 Data factories ★	 SQL elastic pools ★
 Virtual Clusters ★	 Managed databases ★
 Elastic Job agents ★ PREVIEW	 SQL managed instances ★

**Explanation:** Key here is multiple regions.

<https://docs.microsoft.com/en-us/azure/cosmos-db/introduction#key-benefits>

Multi-region writes and data distribution to any Azure region with the click of a button.

## Question 66

CertyIQ

Your company plans to migrate all its network resources to Azure.

You need to start the planning process by exploring Azure.

What should you create first?

- A. a subscription**
- B. a resource group
- C. a virtual network
- D. a management group

**Explanation:** The first thing you create in Azure is a subscription. You can think of an Azure subscription as an 'Azure account'. You get billed per subscription.

A subscription is an agreement with Microsoft to use one or more Microsoft cloud platforms or services, for which charges accrue based on either a per-user license fee or on cloud-based resource consumption.

## Question 67

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
All the Azure resources deployed to a resource group must use the same Azure region.	<input type="radio"/>	<input checked="" type="radio"/>
If you assign a tag to a resource group, all the Azure resources in that resource group are assigned to the same tag.	<input type="radio"/>	<input checked="" type="radio"/>
If you assign permissions for a user to manage a resource group, the user can manage all the Azure resources in that resource group.	<input checked="" type="radio"/>	<input type="radio"/>

## Explanation:

Box 1: No -

**Azure resources deployed to a single resource group can be located in different regions.** The resource group only contains metadata about the resources it contains.

When creating a resource group, you need to provide a location for that resource group. You may be wondering, "Why does a resource group need a location?"

And, if the resources can have different locations than the resource group, why does the resource group location matter at all?" The resource group stores metadata about the resources. When you specify a location for the resource group, you're specifying where that metadata is stored. For compliance reasons, you may need to ensure that your data is stored in a particular region.

Box 2: No - **Tags for Resources are not inherited by default from their Resource Group**

Box 3: Yes -

A resource group can be used to scope access control for administrative actions. **By default, permissions set at the resource level are inherited by the resources in the resource group.**

Reference:

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

## Question 68

CertyIQ

HOTSPOT -

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

Hot Area:

### Answer Area

Data that is stored in the Archive access tier of an Azure Storage account

- can be accessed at any time by using azcopy.exe.
- can only be read by using Azure Backup.
- must be restored before the data can be accessed.
- must be rehydrated before the data can be accessed.

**Explanation:** Azure storage offers different access tiers: hot, cool and archive.

The archive access tier has the lowest storage cost. But it has higher data retrieval costs compared to the hot and cool tiers. Data in the archive tier can take several hours to retrieve.

**While a blob is in archive storage, the blob data is offline and can't be read, overwritten, or modified. To read or download a blob in archive, you must first rehydrate it to an online tier.**

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal#archive-access-tier>

## Question 69

CertyIQ

HOTSPOT -

You plan to deploy a critical line-of-business application to Azure.

The application will run on an Azure virtual machine.

You need to recommend a deployment solution for the application. The solution must provide a guaranteed availability of 99.99 percent.

What is **the minimum number of virtual machines and the minimum number of availability zones** you should recommend for the deployment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

Minimum number of virtual machines:

1	✓
2	
3	

Minimum number of availability zones:

1	✓
2	
3	

## Explanation:

"For all Virtual Machines that have two or more instances deployed across two or more Availability Zones in the same Azure region, **we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.99% of the time.**" [https://azure.microsoft.com/en-us/support/legal/sla/virtual-machines/v1\\_8/](https://azure.microsoft.com/en-us/support/legal/sla/virtual-machines/v1_8/)

### Question 70

CertyIQ

Which Azure service should you use **to collect events** from multiple resources into a centralized repository?

- A. Azure Event Hubs
- B. Azure Analysis Services
- C. Azure Monitor
- D. Azure Stream Analytics

## Explanation:

Keyword is "event" and not just any telemetry data. "Azure Event Hubs – A big data streaming platform and event ingestion service"

Azure Event Hubs is a big data streaming platform and event ingestion service. It can receive and process millions of events per second. Data sent to an event hub can be transformed and stored by using any real-time analytics provider or batching/storage adapters.

Azure Event Hubs can be used to ingest, buffer, store, and process your stream in real time to get actionable insights. Event Hubs uses a partitioned consumer model, enabling multiple applications to process the stream concurrently and letting you control the speed of processing.

**Azure Event Hubs can be used to capture your data in near-real time** in an Azure Blob storage or Azure Data Lake Storage for long-term retention or micro-batch processing.

Reference: -

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-about>

### Question 71

CertyIQ

HOTSPOT -

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

Hot Area:

#### Answer Area

An Availability Zone in Azure has physically separate locations:

	▼
across two continents.	
within a single Azure region.	
within multiple Azure regions.	
within a single Azure datacenter.	

## Explanation: Region > Zone > Data Center

### Question 72

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
Data that is stored in an Azure Storage account automatically has at least three copies.	<input checked="" type="radio"/>	<input type="radio"/>
All data that is copied to an Azure Storage account is backed up automatically to another Azure data center.	<input type="radio"/>	<input checked="" type="radio"/>
An Azure Storage account can contain up to 2 TB of data and up to one million files.	<input type="radio"/>	<input checked="" type="radio"/>

## Explanation:

Box 1: Yes -

**There are different replication options available with a storage account.** The 'minimum' replication option is Locally Redundant Storage (LRS). With LRS, data is replicated synchronously three times within the primary region.

Box 2: No -

**Data is not backed up automatically** to another Azure Data Center although it can be depending on the replication option configured for the account. Locally Redundant Storage (LRS) is the default which maintains three copies of the data in the data center.

Geo-redundant storage (GRS) has cross-regional replication to protect against regional outages. Data is replicated synchronously three times in the primary region, then replicated asynchronously to the secondary region.

Box 3: No -

**The limits are much higher than that.** The current storage limit is 2 PB for US and Europe, and 500 TB for all other regions (including the UK) with no limit on the number of files.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

### Question 73

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
If you have Azure resources deployed to every region, you can implement availability zones in all the regions.	<input type="radio"/>	<input checked="" type="radio"/>
Only virtual machines that run Windows Server can be created in availability zones.	<input type="radio"/>	<input checked="" type="radio"/>
Availability zones are used to replicate data and applications to multiple regions.	<input type="radio"/>	<input checked="" type="radio"/>

## Explanation:

Box 1: No -

**Not every region has multiple Availability Zone.** Some regions may have only one Availability Zone.

Box 2: No -

**One can run both Linux and Windows virtual machines** created in the availability zone.

Box 3: No -

Availability zones are used to replicate data and applications in the **same region**.

**Region > Zone > Data Center**

## Question 74

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
North America is represented by a single Azure region.	<input type="radio"/>	<input checked="" type="radio"/>
Every Azure region has multiple datacenters.	<input type="radio"/>	<input checked="" type="radio"/>
Data transfers between Azure services located in different Azure regions are always free.	<input type="radio"/>	<input checked="" type="radio"/>

## Explanation:

Box 1: No -

**North America has several Azure regions**, including West US, Central US, South Central US, East Us, and Canada East.

Box 2: No -

"Simply put, an Azure Region is a set of Datacentres that are connected through a dedicated low-latency network. How

many datacentres does a region contain? Well, we do not have a fixed number. It varies. There are regions of different sizes. A Region could be made up of just 1 datacentre or multiple datacentres.

The point is, an **Azure Region is a group of one or more Azure Datacentres.**"

References: <https://www.pragimtech.com/blog/azure/azure-regions-and-paired-regions/>

Box 3: No -

**Outbound data transfer is charged at the normal rate and inbound data transfer is free.**

References:

<https://azure.microsoft.com/en-us/global-infrastructure/regions/>

<https://azure.microsoft.com/en-us/pricing/details/bandwidth/>

## Question 75

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.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the **virtual machines are available if a single data center fails.**

Solution: You deploy the virtual machines to two or more **scale sets.**

Does this meet the goal?

A. Yes

**B. No**

## Explanation:

An availability set is a logical grouping of VMs within a datacenter. You will have to use availability zones. Hence B answer.

**Region or Availability Zone** will be the right answer.

## Question 76

CertyIQ

You need to be notified when Microsoft plans to perform maintenance that can affect the resources deployed to an Azure subscription.

What should you use?

A. Azure Monitor

**B. Azure Service Health**

C. Azure Advisor

D. Microsoft Trust Center

## Explanation:

Azure Service Health provides a personalized view of the health of the Azure services and regions you're using. This is the best place to look for service impacting **communications about outages, planned maintenance activities, and other health advisories** because the authenticated Service Health experience knows which services and resources you currently use.

Reference:

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

### Question 77

CertyIQ

DRAG DROP -

Match the Azure Services service to the correct description.

Instructions: To answer, drag the appropriate 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

Azure Sphere

IoT Central

IoT Hub

#### Answer Area

A managed service that provides bidirectional communication between IoT devices and Azure

A fully managed software as a service (SaaS) solution to connect, monitor, and manage IoT devices at scale

A software and hardware solution that provides communication and security features for IoT devices

Ans: -

Correct Answer:	Services	Answer Area
	<input type="text"/>	<input type="text"/> IoT Hub A managed service that provides bidirectional communication between IoT devices and Azure
	<input type="text"/>	<input type="text"/> IoT Central A fully managed software as a service (SaaS) solution to connect, monitor, and manage IoT devices at scale
	<input type="text"/>	<input type="text"/> Azure Sphere A software and hardware solution that provides communication and security features for IoT devices

## Explanation:

Clue: -

hu(b) = (b)idirectional

(c)entral = (c)onnect

(s)phere = (s)ecurity

Reference:

<https://docs.microsoft.com/en-us/azure-sphere/product-overview/what-is-azure-sphere>

<https://docs.microsoft.com/en-us/azure/iot-central/core/overview-iot-central>

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

### Question 78

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
A Windows Virtual Desktop session host can run Windows 10 only.	<input type="radio"/>	<input checked="" type="radio"/>
A Windows Virtual Desktop host pool that includes 20 session hosts supports a maximum of 20 simultaneous user connections.	<input type="radio"/>	<input checked="" type="radio"/>
Windows Virtual Desktop supports desktop and app virtualization.	<input checked="" type="radio"/>	<input type="radio"/>

### Explanation:

1. NO - Supported O/Ses are Windows 10 Enterprise multi-session or Windows 10 Enterprise, Windows 7 Enterprise, Windows Server 2012 R2, 2016, 2019. See <https://docs.microsoft.com/en-us/azure/virtual-desktop/overview#requirements>

2. NO - For Max session limit, enter the maximum number of users you want load-balanced to a single session host. See <https://docs.microsoft.com/en-us/azure/virtual-desktop/create-host-pools-azure-marketplace#begin-the-host-pool-setup-process> and <https://docs.microsoft.com/en-us/windows-server/remote/remote-desktop-services/virtual-machine-recs?context=/azure/virtual-desktop/context/context#recommended-vm-sizes-for-standard-or-larger-environments>

3. YES- Via RemoteApps See <https://docs.microsoft.com/en-us/azure/virtual-desktop/manage-app-groups>

### Question 79

CertyIQ

HOTSPOT -

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

Hot Area:

## Answer Area

	▼
The Azure Migrate: Server Assessment tool	
The Azure Total Cost of Ownership (TCO) calculator	
The Database Migration Assistant	
The pricing calculator in Azure	

can calculate cost savings due to reduced electricity consumption as a result of migrating on-premises Microsoft SQL servers to Azure.

## Explanation:

The Azure Total Cost of Ownership (TCO) Calculator is used to estimate the cost savings you can achieve by migrating your application workloads to Microsoft.

### Question 80

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 use Availability Zones in Azure to protect Azure virtual machines from a datacenter failure.	<input checked="" type="radio"/>	<input type="radio"/>
You can use Availability Zones in Azure to protect Azure virtual machines from a region failure.	<input type="radio"/>	<input checked="" type="radio"/>
You can use Availability Zones in Azure to protect Azure managed disks from a datacenter failure.	<input checked="" type="radio"/>	<input type="radio"/>

## Explanation: Region > Zone > Data Center

Availability zones expand the level of control you have to maintain the availability of the applications and data on your VMs. Availability Zones are unique physical locations within an Azure region.

**Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking.** To ensure resiliency, there are a minimum of three separate zones in all enabled regions. The physical separation of Availability Zones within a region protects applications and data from datacenter failures.

With Availability Zones, Azure offers industry best 99.99% VM uptime SLA. By architecting your solutions to use replicated VMs in zones, you can protect your applications and data from the loss of a datacenter. If one zone is compromised, then replicated apps and data are instantly available in another zone.

References:

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

## End of Part 2



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