



AZ-900^{Q&As}

Microsoft Azure Fundamentals

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QUESTION 1

To which cloud models can you deploy physical servers?

- A. private cloud and hybrid cloud only
- B. private cloud only
- C. private cloud, hybrid cloud and public cloud
- D. hybrid cloud only

Correct Answer: A

A private cloud is on-premises so you can deploy physical servers.

A hybrid cloud is a mix of on-premise and public cloud resources. You can deploy physical servers on-premises.

Reference:

<https://azure.microsoft.com/en-gb/overview/what-is-hybrid-cloud-computing/>

QUESTION 2

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:

Statements	Yes	No
Adding resource groups in an Azure subscription generates additional costs.	<input type="radio"/>	<input type="radio"/>
Copying 10 GB of data to Azure from an on-premises network over a VPN generates additional Azure data transfer costs.	<input type="radio"/>	<input type="radio"/>
Copying 10 GB of data from Azure to an on-premises network over a VPN generates additional Azure data transfer costs.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Statements	Yes	No
Adding resource groups in an Azure subscription generates additional costs.	<input type="radio"/>	<input checked="" type="radio"/>
Copying 10 GB of data to Azure from an on-premises network over a VPN generates additional Azure data transfer costs.	<input type="radio"/>	<input checked="" type="radio"/>
Copying 10 GB of data from Azure to an on-premises network over a VPN generates additional Azure data transfer costs.	<input checked="" type="radio"/>	<input type="radio"/>



QUESTION 3

To what should an application connect to retrieve security tokens?

- A. an Azure Storage account
- B. Azure Active Directory (Azure AD)
- C. a certificate store
- D. an Azure key vault

Correct Answer: D

Azure AD authenticates users and provides access tokens. An access token is a security token that is issued by an authorization server. It contains information about the user and the app for which the token is intended, which can be used to access Web APIs and other protected resources.

Instead of creating apps that each maintain their own username and password information, which incurs a high administrative burden when you need to add or remove users across multiple apps, apps can delegate that responsibility to a centralized identity provider.

Azure Active Directory (Azure AD) is a centralized identity provider in the cloud. Delegating authentication and authorization to it enables scenarios such as Conditional Access policies that require a user to be in a specific location, the use of multi-factor authentication, as well as enabling a user to sign in once and then be automatically signed in to all of the web apps that share the same centralized directory. This capability is referred to as Single Sign On (SSO).

References: <https://docs.microsoft.com/en-us/azure/active-directory/develop/authentication-scenarios>

QUESTION 4

You plan to migrate several servers from an on-premises network to Azure.

What is an advantage of using a public cloud service for the servers over an on-premises network?

- A. The public cloud is owned by the public, NOT a private corporation
- B. The public cloud is a crowd-sourcing solution that provides corporations with the ability to enhance the cloud
- C. All public cloud resources can be freely accessed by every member of the public
- D. The public cloud is a shared entity whereby multiple corporations each use a portion of the resources in the cloud

Correct Answer: D

The public cloud is a shared entity whereby multiple corporations each use a portion of the resources in the cloud. The hardware resources (servers, infrastructure etc.) are managed by the cloud provider. Multiple companies create resources such as virtual machines and virtual networks on the hardware resources.

Incorrect Answers:

A: The public cloud is not owned by the public. In the case of Microsoft Azure, the cloud is owned by Microsoft.

B: The public cloud is a not crowd-sourcing solution. In the case of Microsoft Azure, the cloud is owned by Microsoft.



C: It is not true that public cloud resources can be freely accessed by every member of the public. You pay for a cloud subscription and create accounts for your users to access your cloud resources. No one can access your cloud resources until you create user accounts and provide the appropriate access permissions.

QUESTION 5

HOTSPOT

Select the answer that correctly completes the sentence.

Hot 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.	

Correct Answer:

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.	

Availability Zones are physically separate locations within a single Azure region. Each Availability Zone is made up of one or more datacenters equipped with independent power, cooling, and networking.

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



QUESTION 6

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.

Correct Answer:

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.

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.

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

QUESTION 7

You plan to migrate a web application to Azure. The web application is accessed by external users.

You need to recommend a cloud deployment solution to minimize the amount of administrative effort used to manage the web application.



What should you include in the recommendation?

- A. Software as a Service (SaaS)
- B. Platform as a Service (PaaS)
- C. Infrastructure as a Service (IaaS)
- D. Database as a Service (DaaS)

Correct Answer: B

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.

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

QUESTION 8

Your developers have created a portal web app for users in the Miami branch office. The web app will be publicly accessible and used by the Miami users to retrieve customer and product information. The web app is currently running in an

on-premises test environment.

You plan to host the web app on Azure.

You need to determine which Azure web tier plan to host the web app. The web tier plan must meet the following requirements:

1.

The website will use the miami.veyland.com URL.

2.

The website will be deployed to two instances.

3.

SSL support must be included.

4.

The website requires 12 GB of storage.

5.

Costs must be minimized. Which web tier plan should you use?

- A. Standard
- B. Basic



C. Free

D. Shared

Correct Answer: A

References: <http://azure.microsoft.com/en-us/documentation/articles/azure-subscription-service-limits/>

QUESTION 9

In the software as a service (SaaS) cloud service, which responsibility is shared between Microsoft and the customer?

A. identity and directory infrastructure management

B. application management

C. information and data management

D. operating system updates

Correct Answer: A

Shared responsibility in the cloud

Division of responsibility In an on-premises datacenter, you own the whole stack. As you move to the cloud some responsibilities transfer to Microsoft. The following diagram illustrates the areas of responsibility between you and Microsoft, according to the type of deployment of your stack.

Note: As you consider and evaluate public cloud services, it's critical to understand the shared responsibility model and which security tasks the cloud provider handles and which tasks you handle. The workload responsibilities vary depending on whether the workload is hosted on Software as a Service (SaaS), Platform as a Service (PaaS), Infrastructure as a Service (IaaS), or in an on-premises datacenter.

Reference: <https://learn.microsoft.com/en-us/azure/security/fundamentals/shared-responsibility>

QUESTION 10

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying Azure virtual machines for your company.

You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Software as a Service (SaaS).

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

**QUESTION 11**

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

An Azure service is available to all Azure customers when it is in public preview.

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. private preview
- C. development
- D. an Enterprise Agreement (EA) subscription

Correct Answer: A

Public Preview means that the service is in public beta and can be tried out by anyone with an Azure subscription. Services in public preview are often offered at a discount price. Public previews are excluded from SLAs and in some cases, no support is offered.

Incorrect Answers:

- B: Services in private preview are available only to selected people who has signed up to the private preview program.
- C: Services in development are not available to the public.
- D: Services provided under an Enterprise Agreement (EA) subscription are available only to the subscription owner.

References: <https://www.neowin.net/news/several-more-azure-services-now-available-in-private-public-preview/>

QUESTION 12

Which statement accurately describes the Modern Lifecycle Policy for Azure services?

- A. Microsoft provides mainstream support for a service for ve years.
- B. Microsoft provides a minimum of 12 months TM notice before ending support for a service.
- C. After a service is made generally available, Microsoft provides support for the service for a minimum of four years.
- D. When a service is retired, you can purchase extended support for the service for up to ve years.

Correct Answer: B

For products governed by the Modern Lifecycle Policy, Microsoft will provide a minimum of 12 months\ notification prior to ending support if no successor product or service is offered " excluding free services or preview releases.

Reference: <https://support.microsoft.com/en-us/help/30881/modern-lifecycle-policy>

**QUESTION 13**

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

If Microsoft plans to end support for an Azure service that does NOT have a successor service, Microsoft will provide notification at least 12 months before.

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. 6 months
- C. 90 days
- D. 30 days

Correct Answer: A

The Modern Lifecycle Policy covers products and services that are serviced and supported continuously. For products governed by the Modern Lifecycle Policy, Microsoft will provide a minimum of 12 months\ notification prior to ending support if no successor product or service is offered--excluding free services or preview releases.

Reference: <https://support.microsoft.com/en-us/help/30881>

QUESTION 14

Which cloud computing model includes on-premises and cloud-based resources?

- A. private
- B. public
- C. hybrid

Correct Answer: C

A hybrid cloud - sometimes called a cloud hybrid - is a computing environment that combines an on-premises datacenter (also called a private cloud) with a public cloud, allowing data and applications to be shared between them. Some people define hybrid cloud to include "multicloud" configurations where an organization uses more than one public cloud in addition to their on-premises datacenter.

Reference: <https://azure.microsoft.com/en-us/overview/what-is-hybrid-cloud-computing/>

QUESTION 15

DRAG DROP

Match the Azure services to the correct descriptions.

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 match is worth one point.

Select and Place:

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

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:

Box 1: Azure virtual machines

Box 2: Azure Container instances

Azure Container Instances (ACI) is a managed service that allows you to run containers directly on the Microsoft Azure public cloud, without requiring the use of virtual machines (VMs).

Develop apps fast without managing virtual machines or having to learn new tools—it's just your application, in a container, running in the cloud.

Box 3: Azure App Service

Azure App Service is a fully managed platform for building web applications.

Applications run and scale with ease on both Windows and Linux-based environments.

Box 4: Azure Functions

Azure Functions (from Microsoft Azure) is a cloud-based serverless service that allows running event-triggered code in



a scalable way without providing or managing infrastructure.

Reference:

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

<https://azure.microsoft.com/en-us/services/app-service/>

<https://revdebug.com/blog/what-are-azure-functions>

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