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Question #51

Topic 1

In which type of cloud model are all the hardware resources owned by a third-party and shared between multiple tenants?

A. private

B. hybrid

C. public

Most Voted

Correct Answer: C

Microsoft Azure, Amazon Web Services and Google Cloud are three examples of public cloud services. Microsoft, Amazon and Google own the hardware. The tenants are the customers who use the public cloud services.

Community vote distribution

C (96%)

4%

Question #52

Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Answer Area

An availability set

Azure Spot Virtual Machines

Azure Virtual Desktop

Azure Virtual Machine Scale Sets

is a desktop and application virtualization service that enables the use of a cloud-hosted version of Windows from any location

Answer Area

Correct Answer:

An availability set

Azure Spot Virtual Machines

Azure Virtual Desktop

Azure Virtual Machine Scale Sets

is a desktop and application virtualization service that enables the use of a cloud-hosted version of Windows from any location

Question #53

Topic 1

You have 1,000 virtual machines hosted on the Hyper-V hosts in a data center.

You plan to migrate all the virtual machines to an Azure pay-as-you-go subscription.

You need to identify which expenditure model to use for the planned Azure solution.

Which expenditure model should you identify?

A. operational

Most Voted

B. elastic

C. capital

D. scalable

Correct Answer: A

One of the major changes that you will face when you move from on-premises cloud to the public cloud is the switch from capital expenditure (buying hardware) to operating expenditure (paying for service as you use it). This switch also requires more careful management of your costs. The benefit of the cloud is that you can fundamentally and positively affect the cost of a service you use by merely shutting down or resizing it when it's not needed.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/cloud-adoption/appendix/azure-scaffold>

Community vote distribution

A (100%)

DRAG DROP -

Match the Azure services benefits to the correct descriptions.

Instructions: To answer, drag the appropriate benefit from the column on the left to its description on the right. Each benefit may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Answer Options	Answer Area	
Disaster recovery	A cloud service that remains available after a failure occurs	
Fault tolerance	A cloud service that can be recovered after a failure occurs	
Low latency	A cloud service that performs quickly when demand increases	
Dynamic scalability	A cloud service that can be accessed quickly from the Internet.	

Correct Answer:

Answer Options	Answer Area	
	A cloud service that remains available after a failure occurs	Fault tolerance
	A cloud service that can be recovered after a failure occurs	Disaster recovery
	A cloud service that performs quickly when demand increases	Dynamic scalability
	A cloud service that can be accessed quickly from the Internet.	Low latency

Box 1:

Fault tolerance is the ability of a service to remain available after a failure of one of the components of the service. For example, a service running on multiple servers can withstand the failure of one of the servers.

Box 2:

Disaster recovery is the recovery of a service after a failure. For example, restoring a virtual machine from backup after a virtual machine failure.

Box 3:

Dynamic scalability is the ability for compute resources to be added to a service when the service is under heavy load. For example, in a virtual machine scale set, additional instances of the virtual machine are added when the existing virtual machines are under heavy load.

Box 4:

Latency is the time a service to respond to requests. For example, the time it takes for a web page to be returned from a web server. Low latency means low response time which means a quicker response.

References:

<https://msdn.microsoft.com/en-us/magazine/mt422582.aspx>

<https://searchdisasterrecovery.techtarget.com/definition/cloud-disaster-recovery-cloud-DR> <http://www.siasmsp.com/the-benefit-of-scalability-in-cloud-computing-2/> <https://azure.microsoft.com/en-in/overview/what-is-cloud-computing/>

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
To implement a hybrid cloud model, a company must have an internal network.	<input checked="" type="radio"/>	<input type="radio"/>
A company can extend the computing resources of its internal network by using a hybrid cloud.	<input checked="" type="radio"/>	<input type="radio"/>
In a public cloud model, only guest users at your company can access the resources in the cloud.	<input type="radio"/>	<input checked="" type="radio"/>

Answer Area

Statements	Yes	No
To implement a hybrid cloud model, a company must have an internal network.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
A company can extend the computing resources of its internal network by using a hybrid cloud.	<input checked="" type="radio"/>	<input type="radio"/>
In a public cloud model, only guest users at your company can access the resources in the cloud.	<input type="radio"/>	<input checked="" type="radio"/>

Correct Answer:

Box 1: No -
It is not true that a company must always migrate from an internal network to implement a hybrid cloud. You could start with a public cloud and then combine that with an on-premise infrastructure to implement a hybrid cloud.

Box 2: Yes -
A company can extend the computing resources of its internal network by using the public cloud. This is very common. When you need more resources, rather than pay out for new on-premises infrastructure, you can configure a cloud environment and connect your on-premises network to the cloud environment by using a VPN.

Box 3: No -
It is not true that only guest users can access cloud resources. You can give anyone with an account in Azure Active Directory access to the cloud resources.
There are many authentication scenarios but a common one is to replicate your on-premises Active Directory accounts to Azure Active Directory and provide access to the Azure Active Directory accounts. Another commonly used authentication method is 'Federation' where

authentication for access to cloud resources is passed to another authentication provider such as an on-premises Active Directory.

Reference:

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

Question #56

Topic 1

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 Platform as a Service (PaaS) solution provides full control of operating systems that host applications.

☐☒

A Platform as a Service (PaaS) solution provides additional memory to apps by changing pricing tiers.

☒☐

A Platform as a Service (PaaS) solution can automatically scale the number of instances.

☒☐

Answer Area

Statements

Yes

No

A Platform as a Service (PaaS) solution provides full control of operating systems that host applications.

☐☒

Correct Answer:

A Platform as a Service (PaaS) solution provides additional memory to apps by changing pricing tiers.

☒☐

A Platform as a Service (PaaS) solution can automatically scale the number of instances.

☒☐

Question #57

Topic 1

Your company has an on-premises network that contains multiple servers.
The company plans to reduce the following administrative responsibilities:

- ☞ Backing up application data
- ☞ Replacing failed server hardware
- ☞ Managing physical server security
- ☞ Updating server operating systems
- ☞ Managing permissions to shared documents

The company plans to migrate servers to Azure virtual machines.

You need to identify which administrative responsibilities will be eliminated after the planned migration.

Which two responsibilities should you identify? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Replacing failed server hardware Most Voted

B. Backing up application data

C. Managing physical server security Most Voted

D. Updating server operating systems

E. Managing permissions to shared documents

Correct Answer: AC

Azure virtual machines run on Hyper-V physical servers. The physical servers are owned and managed by Microsoft. As an Azure customer, you have no access to the physical servers. Microsoft manage the replacement of failed server hardware and the security of the physical servers so you don't need to.

Incorrect Answers:

B: Microsoft have no control over the applications you run on the virtual machines. Therefore, it is your responsibility to ensure that application data is backed up.

D: Microsoft do not manage the operating systems you run on the virtual machines. Therefore, it is your responsibility to ensure that the operating systems are updated.

E: Microsoft have no control over the shared folders you host on the virtual machines. Therefore, it is your responsibility to ensure that folder permissions are configured appropriately.

Community vote distribution

AC (95%) 5%

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 Pay-As-You-Go pricing is an example of CapEx.	<input type="radio"/>	<input checked="" type="radio"/>
Paying electricity for your datacenter is an example of OpEx.	<input checked="" type="radio"/>	<input type="radio"/>
Deploying your own datacenter is an example of CapEx.	<input checked="" type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
Azure Pay-As-You-Go pricing is an example of CapEx.	<input type="radio"/>	<input checked="" type="radio"/>
Paying electricity for your datacenter is an example of OpEx.	<input type="radio"/>	<input checked="" type="radio"/>
Deploying your own datacenter is an example of CapEx.	<input checked="" type="radio"/>	<input type="radio"/>

One of the major changes that you will face when you move from on-premises cloud to the public cloud is the switch from capital expenditure (buying hardware) to operating expenditure (paying for service as you use it).

Box 1: No -

With the pay-as-go model, you pay for services as you use them. This is Opex (Operational Expenditure), not CapEx (Captial Expenditure). CapEx is where you pay for something upfront. For example, buying a new physical server.

Box 2: No -

Paying for electricity for your own datacenter will be classed as CapEx, not OpEx.

Box 3: Yes -

Deploying your own datacenter is an example of CapEx. This is because you need to purchase all the infrastructure upfront before you can use it.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/cloud-adoption/appendix/azure-scaffold>

Question #59

Topic 1

You plan to provision Infrastructure as a Service (IaaS) resources in Azure.

Which resource is an example of IaaS?

A. an Azure web app

B. an Azure virtual machine

Most Voted

C. an Azure logic app

D. an Azure SQL database

Correct Answer: B

An Azure virtual machine is an example of Infrastructure as a Service (IaaS).

Azure web app, Azure logic app and Azure SQL database are all examples of Platform as a Service (PaaS).

Reference:

<https://azure.microsoft.com/en-gb/overview/what-is-iaas/>

<https://azure.microsoft.com/en-gb/overview/what-is-paas/>

Community vote distribution

B (100%)

Question #60

Topic 1

To which cloud models can you deploy physical servers?

A. private cloud and hybrid cloud only

Most Voted

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/>

Community vote distribution

A (100%)

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