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Practice Test 4

Completed on 04-January-2021

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01

**Marks Obtained**

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| No    | Domain  | Total Question | Correct | Incorrect | Unattempted | Marked as Review |
|-------|---|----------------|---------|-----------|-------------|------------------|
| 1     | Describe Azure cost management and Service Level Agreements     | 14             | 10      | 4         | 0           | 0                |
| 2     | Describe core solutions and management tools on Azure           | 6              | 6       | 0         | 0           | 0                |
| 3     | Describe identity, governance, privacy, and compliance features | 8              | 8       | 0         | 0           | 0                |
| Total | All Domain  | 55             | 47      | 8         | 0           | 0                |

| No    | Domain  | Total Question | Correct | Incorrect | Unattempted | Marked as Review |
|-------|---|----------------|---------|-----------|-------------|------------------|
| 4     | Describe core Azure services                            | 15             | 14      | 1         | 0           | 0                |
| 5     | Describe general security and network security features | 5              | 5       | 0         | 0           | 0                |
| 6     | Describe cloud concepts                                 | 6              | 4       | 2         | 0           | 0                |
| 7     | Understand Security, Privacy, Compliance, and Trust     | 1              | 0       | 1         | 0           | 0                |
| Total | All Domain  | 55             | 47      | 8         | 0           | 0                |

[Review the Answers](#)Sorting by [All](#)**Question 1****Incorrect****Domain :Describe Azure cost management and Service Level Agreements**

You are planning to set up an Azure Free Account. After the first 30 days of the activation of the account, You can only able to access the subset of services.

- A. Yes
- ✓ B. No

**Explanation:**

Answer – A

The Azure Free Account gives access to all services in Azure for the first 30 days with a free credit of \$200. After this period, the user would have access only to a subset of Azure services for free. eg: Azure Threat Protection is a service that's not available with Free Account. The user needs to convert to "pay-as-you-go-subscription" if they need to avail all of the Azure services.

**Can the Azure free account be used for production or only for development?**

The Azure free account provides access to all Azure products and does not block customers from building their ideas into production. The Azure free account includes certain products—and specific quantities of those products—for free. To enable your production scenarios, you may need to use resources beyond the free amounts. You'll be billed for those additional resources at the pay-as-you-go rates.

For more information on the commonly asked questions for the Azure Free account, please visit the below URL-

<https://azure.microsoft.com/en-us/free/free-account-faq/>

---

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**Question 2**

Correct

Domain :Describe Azure cost management and Service Level Agreements

You are planning to set up an Azure Free Account. Would the credit in the Azure Free Account expire after a specific period of time?

✓ A. Yes 

B. No

**Explanation:**

Answer – A

After a duration of 30 days or if the 200 USD credit gets over, then you have to convert your Free subscription to a Pay-As-You-Go subscription.

This is also mentioned in the FAQ section for the Azure Free Account.

**What does it mean to upgrade my account?**

When you sign up for an Azure free account, you get a \$200 credit that acts as a spending limit—that is, in the first 30 days, any usage of resources beyond the free products and quantities will be deducted from the \$200 credit. When you've used up the \$200 credit or 30 days have expired (whichever happens first), you'll have to upgrade to a [pay-as-you-go account](#). This automatically removes the spending limit so you can continue to get access to all the free products included in the free account. With the spending limit removed, you pay for what you use beyond the free amounts and this is charged to the card you provided.

For more information on the commonly asked questions for the Azure Free account, please visit the below URL-

<https://azure.microsoft.com/en-us/free/free-account-faq/>

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**Question 3**

**Correct**

**Domain :Describe core solutions and management tools on Azure**

Your company has just set up an Azure subscription and Azure tenant with VMs in place. They want to have recommendations given by the Azure Advisor tool. Would the Azure Advisor be able to advise that the Azure VMs does not have backups in place?

✓ A. Yes 

B. No

---

**Explanation:**

Answer - A

Advisor identifies virtual machines where backup is not enabled, and it recommends enabling backup.

For more information on the high availability requirements provided by the Azure Advisor tool, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/advisor/advisor-high-availability-recommendations>

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← → C docs.microsoft.com/en-us/azure/advisor/advisor-high-availability-recommendations

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not resilient to single storage scale unit failures during outages. Advisor will identify these availability sets and recommend migrating to Azure Managed Disks. This will ensure that the disks of the different virtual machines in the availability set are sufficiently isolated to avoid a single point of failure.

Is this page helpful?

Yes No

In this article

Ensure virtual machine fault tolerance

Ensure availability set fault tolerance

Use Managed Disks to improve data reliability

Ensure application gateway fault tolerance

Protect your virtual machine data from accidental deletion

Ensure you have access to Azure cloud experts when you need it

Create Azure Service Health alerts to be notified when Azure issues affect you

Protect your virtual machine data from accidental deletion

Ensure you have access to Azure cloud experts when you need it

Create Azure Service Health alerts to be notified when Azure issues affect you

We recommend setting up Azure Service Health alerts to be notified when Azure service issues affect you. [Azure Service Health](#) is a free service that provides personalized guidance and support when you are impacted by an Azure service issue.



12:01 PM  
12/19/2019

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**Question 4****Correct****Domain :Describe core solutions and management tools on Azure**

Your company has just set up an Azure subscription and an Azure tenant. They want to use recommendations given by the Azure Advisor tool. If your company starts implementing the Azure Advisor tool's recommendations, would it decrease the company's security score?

- A. Yes
- B. No 

**Explanation:**

Answer – B

If you improve the security stance of your resources, your security score will increase.

The security score is maintained in Azure Security Center.

For more information on the Azure Security Center score, please visit the below URL-

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

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**Question 5****Correct****Domain :Describe identity, governance, privacy, and compliance features**

Your company has just set up an Azure subscription and an Azure tenant. Is it mandatory for the company to implement all Azure security recommendations within a period of 30 days in order to maintain Microsoft support?

- A. Yes
- ✓ B. No 

#### Explanation:

Answer – B

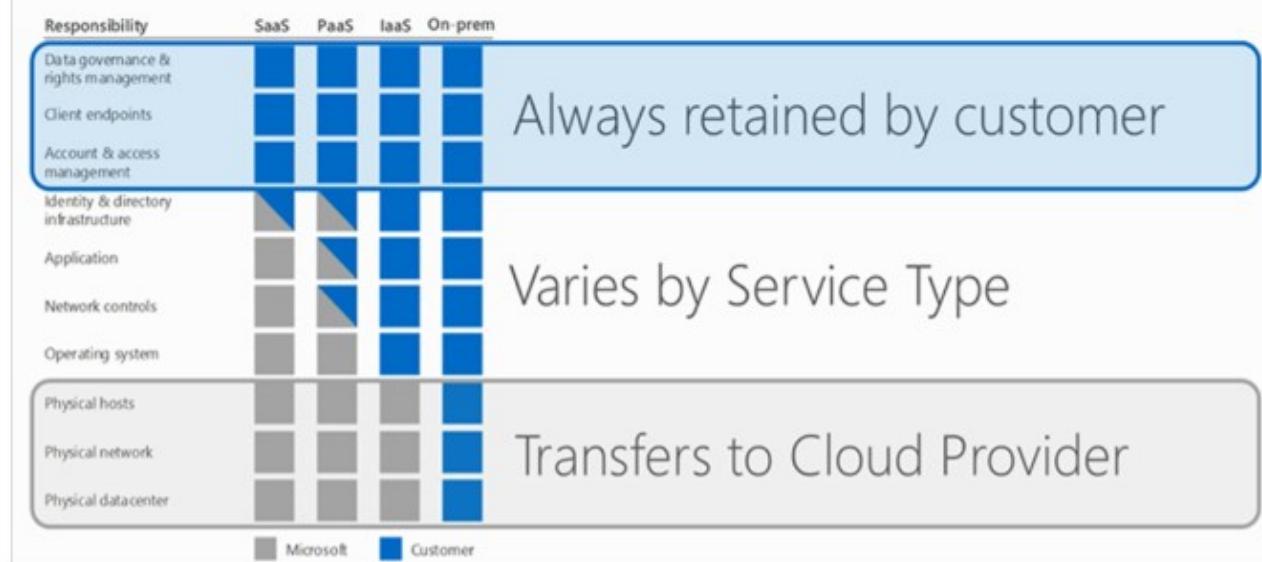
Microsoft provides the required controls for the customer to implement secure practices for their Azure account. There is no constraint that mentions that you need to implement all security recommendations to maintain Microsoft support.

The Microsoft documentation gives a briefing on the Shared responsibility model that the customer needs to understand.

## Shared responsibility model

It's important to understand the division of responsibility between you and Microsoft. On-premises, you own the whole stack, but as you move to the cloud, some responsibilities transfer to Microsoft. The following graphic illustrates the areas of responsibility, according to the type of deployment of your stack (software as a service [SaaS], platform as a service [PaaS], infrastructure as a service [IaaS], and on-premises).

### Responsibility Zones



For more information on the fundamentals of Azure Infrastructure security, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/security/fundamentals/infrastructure>

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**Question 6**

Correct

**Domain :Describe identity, governance, privacy, and compliance features**

Your company is planning to set up an Azure subscription and an Azure tenant using Azure Active Directory. Would the company need to implement domain controllers on Azure virtual machines to use the Azure AD service?

- A. Yes
- B. No 

---

**Explanation:**

Answer - B

Azure Active Directory is a completely managed service. You don't need to provision any infrastructure to implement Azure Active Directory.

For more information on Azure Active Directory, please visit the below URL-

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

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**Question 7**

Correct

**Domain :Describe identity, governance, privacy, and compliance features**

Your company is planning to set up an Azure subscription and an Azure tenant using Azure Active Directory. Does Azure Active Directory provide authentication services for services hosted in Azure and Microsoft Office 365?

✓ A. Yes 

B. No

#### Explanation:

Answer - A

You can use Azure Active Directory to authenticate to both Azure-based resources and also to Microsoft office 365.

The Microsoft documentation mentions the following.

## What is Azure Active Directory?

07/31/2019 • 9 minutes to read •  +8

Azure Active Directory (Azure AD) is Microsoft's cloud-based identity and access management service, which helps your employees sign in and access resources in:

- External resources, such as Microsoft Office 365, the Azure portal, and thousands of other SaaS applications.
- Internal resources, such as apps on your corporate network and intranet, along with any cloud apps developed by your own organization.

You can use the various [Microsoft Cloud for Enterprise Architects Series](#) posters to better understand the core identity services in Azure, Azure AD, and Office 365.

For more information on Azure Active Directory, please visit the below URL-

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

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### Question 8

Correct

Domain :Describe identity, governance, privacy, and compliance features

A company is planning to set up an Azure subscription and an Azure tenant using Azure Active Directory. When assigning product licenses to Azure Active Directory users, would a user be limited to the assignment of a single product license only?

- A. Yes
- ✓ B. No 

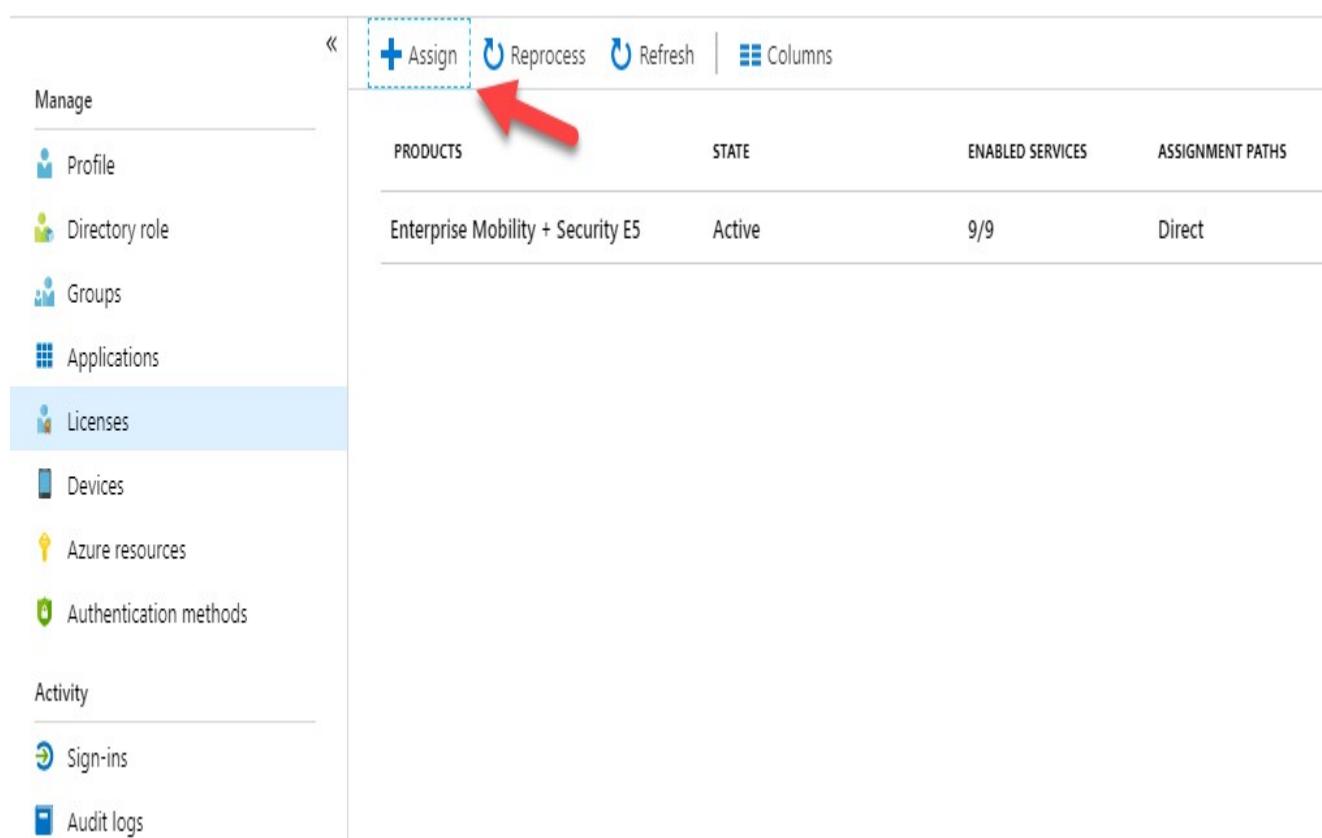
---

### Explanation:

Answer – B

You can assign multiple licenses to a user in Azure Active Directory.

As shown below for each user, you can assign a license depending on what licenses have been purchased.



The screenshot shows the Azure portal interface for managing user licenses. On the left, a sidebar lists various management categories: Manage, Profile, Directory role, Groups, Applications, **Licenses** (which is selected and highlighted in blue), Devices, Azure resources, Authentication methods, Activity, Sign-ins, and Audit logs. The main content area displays a table of user licenses. The table has columns: PRODUCTS, STATE, ENABLED SERVICES, and ASSIGNMENT PATHS. One row is visible, showing 'Enterprise Mobility + Security E5' under PRODUCTS, 'Active' under STATE, '9/9' under ENABLED SERVICES, and 'Direct' under ASSIGNMENT PATHS. At the top of the main content area, there are several buttons: '+ Assign' (which is highlighted with a red box and a red arrow pointing to it), 'Reprocess', 'Refresh', and 'Columns'. The '+ Assign' button is used to assign new licenses to users.

For more information on adding licenses in Azure Active Directory, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/license-users-groups>

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### Question 9

Correct

Domain :Describe core Azure services

A team has an object named audio.log stored in the Blob service in the Azure storage account. A partial snapshot of the properties is given below.

[Overview](#) [Snapshots](#) [Edit blob](#) [Generate SAS](#)

#### Properties

|                           |  |
|---------------------------|--|
| URL                       | <a href="https://whizlabstore2020.blob.core.windows.net/">https://whizlabstore2020.blob.core.windows.net/...</a>  |
| LAST MODIFIED             | 9/22/2019, 3:58:32 PM  |
| CREATION TIME             | 9/22/2019, 3:58:32 PM  |
| TYPE                      | Block blob   |
| SIZE                      | 206 B  |
| ACCESS TIER               | Archive  |
| ACCESS TIER LAST MODIFIED | 9/22/2019, 3:58:45 PM  |

Which of the following needs to be done before the object can be accessed?

- A. Create a snapshot of the object.
- ✓ B. Rehydrate the object. 
- C. Change the type of the object.
- D. Change the URL of the object.

#### Explanation:

Answer – B

The Blob object is in the Archive tier as shown below.

[Overview](#) [Snapshots](#) [Edit blob](#) [Generate SAS](#)

## Properties

|                           |  |
|---------------------------|--|
| URL                       | <a href="https://whizlabstore2020.blob.core.windows.net/">https://whizlabstore2020.blob.core.windows.net/...</a>  |
| LAST MODIFIED             | 9/22/2019, 3:58:32 PM  |
| CREATION TIME             | 9/22/2019, 3:58:32 PM  |
| TYPE                      | Block blob   |
| SIZE                      | 206 B  |
| ACCESS TIER               | Archive  |
| ACCESS TIER LAST MODIFIED | 9/22/2019, 3:58:45 PM  |



In order to access the object, you first need to hydrate the object.

The Microsoft documentation mentions the following.

## Blob rehydration

To read data in archive storage, you must first change the tier of the blob to hot or cool. This process is known as rehydration and can take hours to complete. We recommend large blob sizes for optimal rehydration performance. Rehydrating several small blobs concurrently may add additional time. There are currently two rehydrate priorities, High (preview) and Standard, which can be set via the optional `x-ms-rehydrate-priority` property on a [Set Blob Tier](#) or [Copy Blob](#) operation.

Since this is clear from the documentation, all other options are incorrect.

For more information on Storage blob access tiers, please visit the below URL-

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

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**Question 10****Correct**

Domain :Describe Azure cost management and Service Level Agreements

A company is planning to store 1 TB of data in Azure BLOB storage. Would the cost of data storage be the same regardless of the region the data is stored in?

- A. Yes
- B. No 

### Explanation:

Answer – B

When you look at the pricing for Azure BLOB storage, there is a selector for the region. The cost depends on the region the BLOB is located in.



### Data storage prices

All prices are per GB, per month.

|                                | PREMIUM       | HOT             | COOL          | ARCHIVE *      |
|--------------------------------|---------------|-----------------|---------------|----------------|
| First 50 terabyte (TB) / month | \$0.18 per GB | \$0.0184 per GB | \$0.01 per GB | \$0.002 per GB |
| Next 450 TB / Month            | \$0.18 per GB | \$0.0177 per GB | \$0.01 per GB | \$0.002 per GB |
| Over 500 TB / Month            | \$0.18 per GB | \$0.0170 per GB | \$0.01 per GB | \$0.002 per GB |

For more information on Azure BLOB pricing, please visit the below URL-

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

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**View Queries****open ▾****Question 11****Incorrect****Domain :Describe Azure cost management and Service Level Agreements**

A company is planning to use an Azure storage account. They are planning to provision an Azure storage account of the kind "General Purpose v2". Would the company be charged only for the amount of data stored and not for the amount of read and write operations?

- ✓ A. Yes 
- B. No 

---

**Explanation:**

Answer – B

The cost of Azure storage depends on several factors, and one of them includes the number of read and write operations.

The Microsoft documentation mentions the following when it comes to an example of pricing for Block Blob storage.

Block blob storage is used for streaming and storing documents, videos, pictures, backups, and other unstructured text or binary data.

Total cost of block blob storage depends on:

- Volume of data stored per month.
- Quantity and types of operations performed, along with any data transfer costs.
- Data redundancy option selected.

For more information on Azure BLOB pricing, please visit the below URL-

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

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### Question 12

Correct

Domain :Describe Azure cost management and Service Level Agreements

A company is planning to set up a string of Azure Storage Accounts. Is the transfer of data between Azure storage accounts in different Azure regions free of cost?

- A. Yes
- ✓ B. No 

#### Explanation:

Answer – B

All services that do cross-regional data transfers are subjected to a cost.

A snippet of the cost from the Microsoft documentation is given below.

## Pricing details

### Inbound data transfers

(i.e. data going into Azure data centers): **Free**

### Outbound data transfers

(i.e. data going out of Azure data centers; zones refer to source region):

| OUTBOUND DATA TRANSFERS             | ZONE 1*        |
|-------------------------------------|----------------|
| First 5 GB /Month <sup>1</sup>      | Free           |
| 5 GB - 10 TB <sup>2</sup> /Month    | \$0.087 per GB |
| Next 40 TB<br>(10 - 50 TB) /Month   | \$0.083 per GB |
| Next 100 TB<br>(50 - 150 TB) /Month | \$0.07 per GB  |

For more information on Azure bandwidth pricing details, please visit the below URL-

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

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**Question 13**

**Correct**

**Domain :Describe Azure cost management and Service Level Agreements**

A company wants to start using Azure services. They have several departments that would need to make use of Azure services. They want to give each department the ability to use a different payment option for the amount of Azure services they consume. Which of the following should each department use to fulfill this requirement?

- A. A resource group
- ✓ B. A subscription 
- C. An Azure policy
- D. A reservation

---

**Explanation:**

Answer – B

The billing for Azure resources is tagged to a subscription. Hence to segregate the billing for each department, each of them can have a different subscription.

For more information on subscriptions, please visit the below URL which refers to a blog article on the benefits of a Windows subscription-

<https://blogs.msdn.microsoft.com/arunrakwal/2012/04/09/create-windows-azure-subscription/>

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**Question 14****Correct**

Domain :Describe Azure cost management and Service Level Agreements

A company has just set up an Azure subscription and an Azure tenant. Which of the following can the company use to create an Azure support request?

- A. The Knowledge Center
- ✓ B. The Azure Portal 
- C. Support.microsoft.com
- D. The Security and Compliance admin center

---

**Explanation:**

Answer - B

You can create a support request in the Azure portal itself as shown below.

The screenshot shows the Azure portal interface. On the left, there is a navigation sidebar with various service icons and names. A red circle with the number '1' is placed over the 'Help + support' icon. In the main content area, the title 'Help + support - New support request' is displayed above a search bar. Below the search bar, there are three tabs: 'Basics' (which is underlined and highlighted with a blue dashed border), 'Solutions', and 'Details'. A red circle with the number '2' is placed over the 'New support request' button. To the right of the button, there is a list of support-related options: 'All support requests', 'Support Plans', 'Service Health', 'Advisor', and 'Get started with Azure'. A callout box on the right side of the screen provides instructions: 'Create a new support request to get assistance with I management issues. Complete the Basics tab by selecting the options tha information can help to solve your issues faster.' Below this, there is a field labeled 'What is your issue related to?' with a dropdown arrow.

You just have to go to "Help + support" and then click on "New support request".

Since this is clear from the implementation, all other options are incorrect.

For more information on creating a support request, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/azure-supportability/how-to-create-azure-support-request>

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**Question 15****Correct****Domain :Describe core Azure services**

Your company wants to provision a set of Azure virtual machines. An application will be installed on these virtual machines. The company wants to ensure that the user traffic is distributed across the virtual machines.

You decide to use the Azure VPN Gateway service for traffic distribution.

Would this fulfill the requirement?

- A. Yes
- ✓ B. No 

**Explanation:**

Answer – B

This service is used to help connect an on-premise data center to an Azure Virtual Network.

The Microsoft documentation mentions the following.

# What is VPN Gateway?

05/22/2019 • 13 minutes to read •  +3

A VPN gateway is a specific type of virtual network gateway that is used to send encrypted traffic between an Azure virtual network and an on-premises location over the public Internet. You can also use a VPN gateway to send encrypted traffic between Azure virtual networks over the Microsoft network. Each virtual network can have only one VPN gateway. However, you can create multiple connections to the same VPN gateway. When you create multiple connections to the same VPN gateway, all VPN tunnels share the available gateway bandwidth.

For more information on the Azure VPN gateway, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-vpngateways>

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**Question 16**

**Correct**

Domain :Describe core Azure services

Your company wants to provision a set of Azure virtual machines. An application will be installed on these virtual machines. The company wants to ensure that the user traffic is distributed across the virtual machines.

You decide to use the Azure Load Balancer service for traffic distribution.  
Would this fulfill the requirement?

- ✓ A. Yes 
- B. No

---

**Explanation:**

Answer – A

The Azure Load Balancer is the ideal service to use for this scenario. It can be used to distribute traffic to the backend virtual machines.

The Microsoft documentation mentions the following.

## Why use Load Balancer?

You can use Azure Load Balancer to:

- Load-balance incoming internet traffic to your VMs. This configuration is known as a [Public Load Balancer](#).
- Load-balance traffic across VMs inside a virtual network. You can also reach a Load Balancer front end from an on-premises network in a hybrid scenario. Both scenarios use a configuration that is known as an [Internal Load Balancer](#).
- Port forward traffic to a specific port on specific VMs with inbound network address translation (NAT) rules.
- Provide [outbound connectivity](#) for VMs inside your virtual network by using a public Load Balancer.

For more information on the Azure Load Balancer, please visit the below URL-

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

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**Question 17**

**Correct**

Domain :Describe core solutions and management tools on Azure

Your company wants to provision a set of Azure virtual machines. An application will be installed on these virtual machines. The company wants to ensure that the user traffic is distributed across the virtual machines.

You decide to use the Azure HDInsight service for traffic distribution.

Would this fulfill the requirement?

- A. Yes
- ✓ B. No 

---

**Explanation:**

Answer – B

The Azure HDInsight service is used for implementing Big Data related open source frameworks.

The Microsoft documentation mentions the following.

## What is Azure HDInsight?

06/11/2019 • 6 minutes to read • 

Azure HDInsight is a managed, full-spectrum, open-source analytics service in the cloud for enterprises. You can use open-source frameworks such as Hadoop, Apache Spark, Apache Hive, LLAP, Apache Kafka, Apache Storm, R, and more.

For more information on the Azure HDInsight, please visit the below URL-

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

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**Question 18**

**Correct**

Domain :Describe core Azure services

A company is planning to set up a solution on the Azure platform. The solution has the following main key requirement.

Provide a managed service that could be used to manage and scale container-based applications.

Which of the following would be best suited for this requirement?

- A. Azure Event Grid
- B. Azure DevOps
- ✓ C. Azure Kubernetes 
- D. Azure DevTest Labs

---

**Explanation:**

Answer – C

This can be achieved by the Azure Kubernetes service.

The Microsoft documentation mentions the following.



**Ship faster, operate with ease, and scale confidently**

The fully managed Azure Kubernetes Service (AKS) makes deploying and managing containerized applications easy. It offers serverless Kubernetes, an integrated continuous integration and continuous delivery (CI/CD) experience, and enterprise-grade security and governance. Unite your development and operations teams on a single platform to rapidly build, deliver, and scale applications with confidence.

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on the Azure Kubernetes service, please visit the below URL-

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

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**Question 19**

**Correct**

Domain :Describe core solutions and management tools on Azure

A company is planning to set up a solution on the Azure platform. The solution has the following

main key requirement.

Provide a continuous Integration and Delivery toolset that could work with a variety of languages.

Which of the following would be best suited for this requirement?

- A. Azure Event Grid
- ✓ B. Azure DevOps 
- C. Azure Kubernetes
- D. Azure DevTest Labs

---

#### Explanation:

Answer – B

This can be achieved with the Azure DevOps service.

The Microsoft documentation mentions the following.

**Use all the DevOps services or choose just what you need to complement your existing workflows**



#### Azure Boards

Deliver value to your users faster using proven agile tools to plan, track, and discuss work across your teams.

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#### Azure Pipelines

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.

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#### Azure Repos

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.

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Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on the Azure DevOps service, please visit the below URL-

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

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**Question 20**

**Correct**

Domain :Describe core solutions and management tools on Azure

A company is planning to set up a solution on the Azure platform. The solution has the following main key requirement.

Provide a service that could be used to quickly provision development and test environments.

Minimize waste on resources with the help of quotas and policies.

Which of the following would be best suited for this requirement?

- A. Azure Event Grid
- B. Azure DevOps
- C. Azure Kubernetes
- ✓ D. Azure DevTest Labs 

---

**Explanation:**

Answer – D

This can be achieved by the Azure DevTest Labs service.

The Microsoft documentation mentions the following.

# Azure DevTest Labs

Fast, easy, and lean dev-test environments

- ✓ Quickly provision development and test environments
- ✓ Minimize waste with quotas and policies
- ✓ Set automated shutdowns to minimize costs
- ✓ Build Windows and Linux environments



Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on the Azure DevTest Labs service, please visit the below URL-

<https://azure.microsoft.com/en-us/services/devtest-lab/>

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**Question 21**

Correct

**Domain :Describe core solutions and management tools on Azure**

A company is planning to set up a solution on the Azure platform. The solution has the following main key requirement.

Be able to collect events from multiple sources and then relay them to an application.

Which of the following would be best suited for this requirement?

- ✓ A. Azure Event Grid 
- B. Azure DevOps
- C. Azure Kubernetes
- D. Azure DevTest Labs

**Explanation:**

Answer – A

This can be achieved by the Azure Event Grid service.

The Microsoft documentation mentions the following.

## Use Event Grid to power your event-driven and serverless apps

Simplify your event-based apps with Event Grid, a single service for managing routing of all events from any source to any destination. Designed for high availability, consistent performance, and dynamic scale, Event Grid lets you focus on your app logic rather than infrastructure.

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on the Azure Event Grid service, please visit the below URL-

<https://azure.microsoft.com/en-us/services/event-grid/>

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**Question 22****Correct****Domain :Describe general security and network security features**

A company is planning to use the Azure Firewall service. Would the Azure firewall service encrypt all network traffic sent from Azure to the Internet?

- A. Yes
- B. No 

**Explanation:**

Answer – B

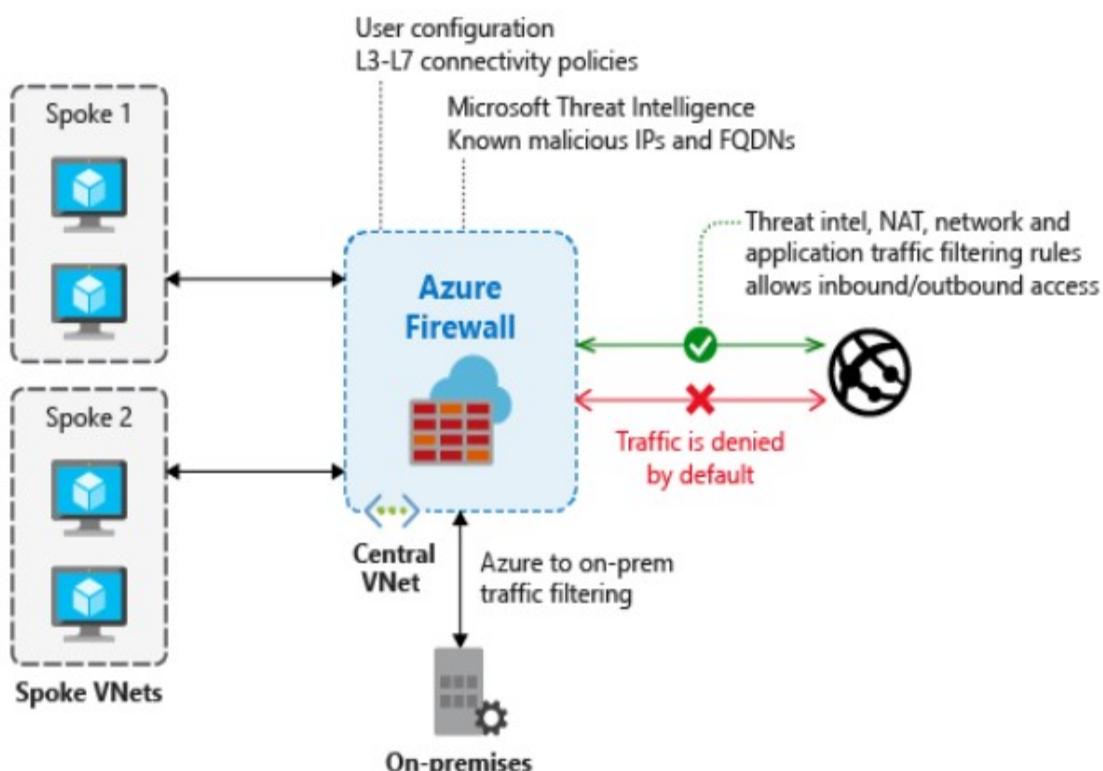
The Azure Firewall service is primarily used to protect your network infrastructure.

The Microsoft documentation mentions the following.

# What is Azure Firewall?

09/04/2019 • 8 minutes to read •

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. The service is fully integrated with Azure Monitor for logging and analytics.

For more information on the Azure Firewall service, please visit the below URL-

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

---

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[View Queries](#)[open ▾](#)**Question 23****Correct****Domain :Describe general security and network security features**

A company is planning to use Network Security Groups. Could network security groups be used to encrypt all network traffic sent from Azure to the Internet?

- A. Yes
- ✓ B. No 

---

**Explanation:**

Answer – B

Network Security Groups are used to restrict Inbound and Outbound traffic. It can't be used to encrypt traffic.

The Microsoft documentation mentions the following.

## Security groups

07/26/2018 • 25 minutes to read •  +11

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. To learn about which Azure resources can be deployed into a virtual network and have network security groups associated to them, see [Virtual network integration for Azure services](#). For each rule, you can specify source and destination, port, and protocol.

For more information on the Azure network security, please visit the below URL-

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

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**Question 24****Correct**

Domain :Describe core Azure services

A company is planning to deploy an Azure Windows Server 2016 virtual machine. Could a VPN be used to encrypt all traffic from the virtual machine itself to a host on the Internet?

✓ A. Yes 

B. No

**Explanation:**

Answer – A

You can install roles such as the Remote Access Server for VPN to ensure that traffic is encrypted when it flows out of the server.

An example in the Microsoft documentation is given via the below URL-

<https://docs.microsoft.com/en-us/windows-server/remote/remote-access/vpn/always-on-vpn/deploy/vpn-deploy-ras>

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**Question 25****Correct**

Domain :Describe core Azure services

You are planning to deploy an Azure virtual machine. Which of the following storage service is used to store the virtual hard drive files for the virtual machine?

- ✓ A. Blob 
- B. Files
- C. Tables
- D. Queues

---

**Explanation:**

Answer – A

The data disks are stored in the Blob service of Azure storage accounts.

The Microsoft documentation mentions the following.

## Blobs

Azure Storage supports three types of blobs:

- **Block blobs** store text and binary data, up to about 4.7 TB. Block blobs are made up of blocks of data that can be managed individually.
- **Append blobs** are made up of blocks like block blobs, but are optimized for append operations. Append blobs are ideal for scenarios such as logging data from virtual machines.
- **Page blobs** store random access files up to 8 TB in size. Page blobs store virtual hard drive (VHD) files and serve as disks for Azure virtual machines. For more information about page blobs, see [Overview of Azure page blobs](#)

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on the Azure Blob storage, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction>

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

---

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**View Queries****open ▾****Question 26****Incorrect****Domain :Describe Azure cost management and Service Level Agreements**

A company currently has the following unused resources as part of its PREMIUM subscription.

10 user accounts in Azure AD

5 user groups in Azure AD

10 public IP address

10 network Interfaces

They want to reduce the costs for resources hosted in Azure.

They decide to remove the user accounts from Azure AD.

Would this fulfill the requirement?

✓ A. Yes ✗

B. No ✓

---

**Explanation:**

Answer – B

When you look at the pricing for Azure Active Directory, you can create 5,00,000 objects as part of the free version. These objects include both users and groups. For the PREMIUM subscription, there are no object limits as shown below.

The Microsoft documentation mentions the following.

| FREE                                       | OFFICE 365 APPS       | PREMIUM P1      | PREMIUM P2      |
|--|-----------------------|-----------------|-----------------|
| <b>Core Identity and Access Management</b> |                       |                 |                 |
| Directory Objects <sup>1</sup>             | 5,00,000 Object Limit | No Object Limit | No Object Limit |

For more information on the pricing for Azure Active Directory, please visit the below URL-

<https://azure.microsoft.com/en-in/pricing/details/active-directory/>

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Question 27

Correct

**Domain :Describe Azure cost management and Service Level Agreements**

A company currently has the following unused resources as part of its subscription.

10 user accounts in Azure AD

5 user groups in Azure AD

10 public IP address

10 network Interfaces

They want to reduce the costs for resources hosted in Azure.

They decide to remove the user groups from Azure AD.

Would this fulfill the requirement?

- A. Yes
- B. No 

---

**Explanation:**

Answer – B

When you look at the pricing for Azure Active Directory, you can create 5,00,000 objects as part of the free version. These objects include both users and groups.

The Microsoft documentation mentions the following.

| FREE                                       | OFFICE 365 APPS       | PREMIUM P1      | PREMIUM P2      |
|--|-----------------------|-----------------|-----------------|
| <b>Core Identity and Access Management</b> |                       |                 |                 |
| Directory Objects <sup>1</sup>             | 5,00,000 Object Limit | No Object Limit | No Object Limit |

For more information on the pricing for Azure Active Directory, please visit the below URL-

<https://azure.microsoft.com/en-in/pricing/details/active-directory/>

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Question 28

Correct

Domain :Describe Azure cost management and Service Level Agreements

A company currently has the following unused resources as part of their subscription.

10 user accounts in Azure AD

5 user groups in Azure AD

10 public IP address

10 network Interfaces

They want to reduce the costs for resources hosted in Azure.

They decide to remove the public IP addresses.

Would this fulfill the requirement?

✓ A. Yes 

B. No

**Explanation:**

Answer – A

Yes, this can reduce the cost since there is a price for Public IP addressing as given in the Microsoft documentation below.

| TYPE                                       | BASIC (CLASSIC)   | BASIC (ARM)  | STANDARD (ARM)                   |
|--|---|--|----------------------------------|
| Dynamic IP address                         | First Cloud Service VIP: Free<br>Additional: \$0.0036/hour <sup>1</sup> | \$0.004/hour   | N/A                              |
| Static IP address<br>(reservation + usage) | First 5: Free<br>Additional: \$0.0036/hour                              | First 5: \$0.004/hour <sup>2</sup><br>Additional: \$0.008/hour | \$0.005/hour                     |
| Public IP prefix <sup>3</sup>              | N/A   | N/A  | \$0.006 per IP/hour <sup>4</sup> |

For more information on the pricing for IP addresses, please visit the below URL-

<https://azure.microsoft.com/th-th/pricing/details/ip-addresses/>

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Question 29

Incorrect

**Domain :Describe Azure cost management and Service Level Agreements**

A company currently has the following unused resources as part of their subscription.

10 user accounts in Azure AD

5 user groups in Azure AD

10 public IP address

10 network Interfaces

They want to reduce the costs for resources hosted in Azure.

They decide to remove the network interfaces from Azure AD.

Would this fulfill the requirement?

✓ A. Yes 

B. No 

**Explanation:**

Answer – B

There is no price for network interfaces, so this would not help reduce the cost.

For more information on the pricing for the virtual network in Azure, please visit the below URL-

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

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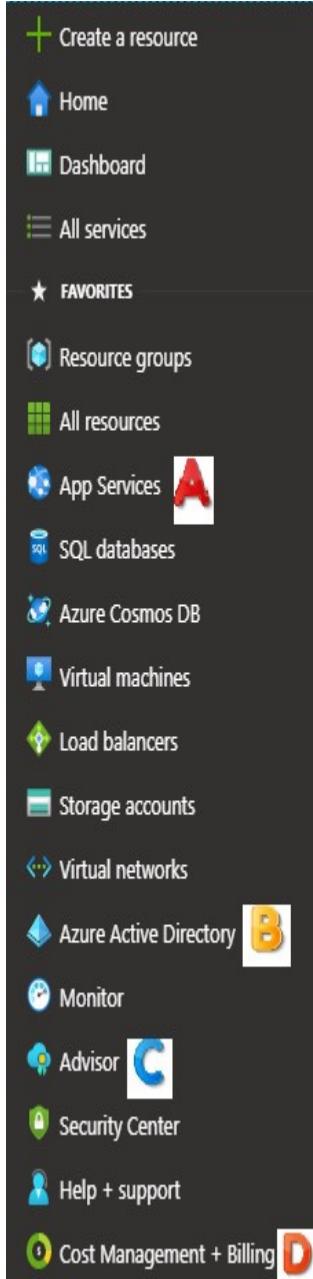
open 

**Question 30**

**Correct**

**Domain :Describe identity, governance, privacy, and compliance features**

A company has just started using Azure. They have just acquired a subscription and created an Azure tenant. Where do they have to go to create users and groups for their Azure AD tenant?



A. App Services

- ✓ B. Azure Active Directory ✓
- C. Advisor
- D. Cost Management + Billing

---

#### Explanation:

Answer – B

You can create users and groups in Azure Active Directory.

The Microsoft documentation mentions the following.

# What is Azure Active Directory?

07/31/2019 • 9 minutes to read •  +8

Azure Active Directory (Azure AD) is Microsoft's cloud-based identity and access management service, which helps your employees sign in and access resources in:

- External resources, such as Microsoft Office 365, the Azure portal, and thousands of other SaaS applications.
- Internal resources, such as apps on your corporate network and intranet, along with any cloud apps developed by your own organization.

The other services can't be used to create users and groups.

For more information on Azure Active Directory, please visit the below URL-

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

---

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**Question 31**

**Correct**

Domain :Describe cloud concepts

A company is planning to move some of its on-premise resources to Azure. They have to provide a business justification for moving to Azure. They have to classify expenses as part of the business justification. Which category would the following expenses come under?

"Software Leasing"

- A. Primary Expenditure
- B. Capital Expenditure
- C. Secondary Expenditure

✓ D. Operating Expenditure ✓

**Explanation:**

Answer – D

This expense comes under the operational expense category.

The Microsoft documentation gives examples of operating expenses.

## OpEx cloud computing costs

With cloud computing, many of the costs associated with an on-premises datacenter are shifted to the service provider. Instead of thinking about physical hardware and datacenter costs, cloud computing has a different set of costs. For accounting purposes, all these costs are operational expenses:

### Leasing software and customized features

Using a pay-per-use model requires actively managing your subscriptions to ensure users do not misuse the services, and that provisioned accounts are being utilized and not wasted. As soon as the provider provisions resources, billing starts. It is your responsibility to de-provision the resources when they aren't in use so that you can minimize costs.

### Scaling charges based on usage/demand instead of fixed hardware or capacity.

Cloud computing can bill in various ways, such as the number of users or CPU usage time. However, billing categories can also include allocated RAM, I/O operations per second (IOPS), and storage space. Plan for backup traffic and data recovery traffic to determine the bandwidth needed.

### Billing at the user or organization level.

The subscription (pay-per-use) model is a computing billing method that is designed for both organizations and users. The organization or user is billed for the services used, typically on a recurring basis. You can scale, customize, and provision computing resources, including software, storage, and development platforms. For example, when using a dedicated cloud service, you could pay based on server hardware and usage.

For more information on financial models, please visit the below URL-

<https://docs.microsoft.com/en-us/learn/modules/principles-cloud-computing/3c-capex-vs-opex>

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**Question 32****Correct**

Domain :Describe cloud concepts

A company is planning to move some of its on-premise resources to Azure. They have to provide a business justification for moving to Azure. They have to classify expenses as part of the business justification. Which category would the following expense come under?

*"Cooling expenses"*

- A. Primary Expenditure
- B. Capital Expenditure
- C. Secondary Expenditure
- ✓ D. Operating Expenditure 

**Explanation:**

Answer - D

This expense comes under the operating expense category.

The Microsoft documentation gives examples of operating expenses.

## Operational cost reductions

Recurring expenses required to operate a business are often called operating expenses. This is a broad category. In most accounting models, it includes:

- Software licensing.
- Hosting expenses.
- Electric bills.
- Real estate rentals.
- Cooling expenses.
- Temporary staff required for operations.
- Equipment rentals.
- Replacement parts.
- Maintenance contracts.
- Repair services.
- Business continuity and disaster recovery (BCDR) services.
- Other expenses that don't require capital expense approvals.

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on financial models, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/architecture/cloud-adoption/business-strategy/financial-models>

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Question 33

Correct

Domain :Describe cloud concepts

A company is planning to move some of its on-premise resources to Azure. They have to provide a business justification for moving to Azure. They have to classify expenses as part of the business justification. Which category would the following expense come under?

*"New On-premise performance cluster to host a Big Data solution."*

- A. Primary Expenditure
- ✓ B. Capital Expenditure 
- C. Secondary Expenditure
- D. Operating Expenditure

---

#### **Explanation:**

Answer – B

This expense comes under the capital expense category.

The Microsoft documentation gives examples of capital expenses.

## **Capital expense reductions or avoidance**

Capital expenses are slightly different from operating expenses. Generally, this category is driven by refresh cycles or datacenter expansion. An example of a datacenter expansion would be a new high-performance cluster to host a big data solution or data warehouse. This expense would generally fit into a capital expense category. More common are the basic refresh cycles. Some companies have rigid hardware refresh cycles, meaning assets are retired and replaced on a regular cycle (usually every three, five, or eight years). These cycles often coincide with asset lease cycles or the forecasted life span of equipment. When a refresh cycle hits, IT draws capital expense to acquire new equipment.

If a refresh cycle is approved and budgeted, the cloud transformation could help eliminate that cost. If a refresh cycle is planned but not yet approved, the cloud transformation could avoid a capital expenditure. Both reductions would be added to the cost delta.

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on financial models, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/architecture/cloud-adoption/business-strategy/financial-models>

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**Question 34****Correct**

Domain :Describe core Azure services

A company has just set up an Azure subscription and an Azure tenant. They want to start deploying resources on the Azure platform. They want to implement a way to group the resources logically. Which of the following could be used for this requirement?

- A. Availability Zones
- ✓ B. Azure Resource Groups 
- C. Azure Resource Manager
- D. Azure Regions

**Explanation:**

Answer – B

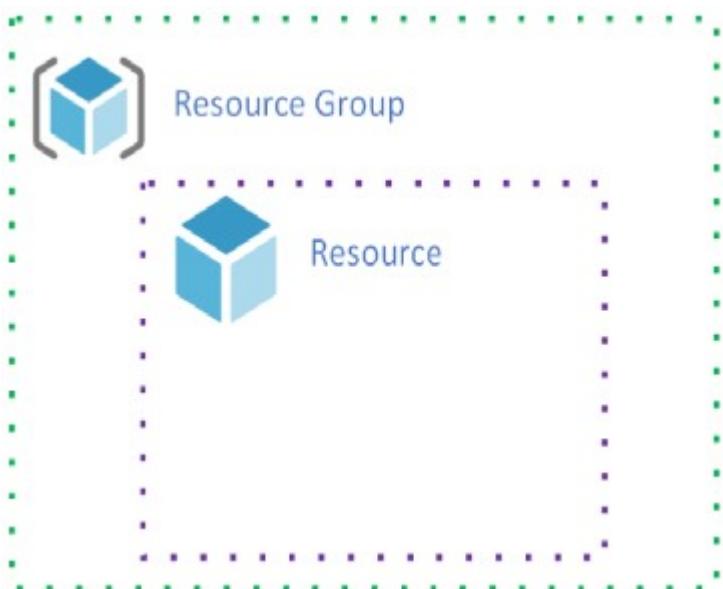
This can be done with the help of resources groups.

The Microsoft documentation mentions the following.

# What is a resource group

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. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Generally, add resources that share the same lifecycle to the same resource group so you can easily deploy, update, and delete them as a group.

The resource group stores metadata about the resources. Therefore, when you specify a location for the resource group, you are specifying where that metadata is stored. For compliance reasons, you may need to ensure that your data is stored in a particular region.



Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on resources and resource group, please visit the below URL-

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

---

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**Question 35****Correct****Domain :Describe core Azure services**

A company has just set up an Azure subscription and an Azure tenant. They want to start deploying resources on the Azure platform. They want to implement a way to deploy the resources so that they would be located closest to the users accessing those resources. Which of the following could be used for this requirement?

- A. Availability Zones
- B. Azure Resource Groups
- C. Azure Resource Manager
- ✓ D. Azure Regions 

---

**Explanation:**

Answer – D

You can make use of Azure Regions and deploy the resources to the region that is closest to the user.

The Microsoft documentation mentions the following.

The screenshot shows the Microsoft Azure homepage with a dark blue header. The header includes the Microsoft Azure logo, a navigation bar with links for Overview, Solutions, Products, Documentation, Pricing, Training, Marketplace, and Partners, and a search bar. Below the header, a breadcrumb trail shows 'Azure global infrastructure / Azure regions'. The main content area has a dark blue background with white text. The title 'Azure regions' is displayed in large, bold, white font. A descriptive paragraph follows, stating: 'Azure has more global regions than any other cloud provider—offering the scale needed to bring applications closer to users around the world, preserving data residency, and offering comprehensive compliance and resiliency options for customers.' Below this, two large white numbers are presented: '58 regions worldwide' and '140 available in 140 countries'.

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on Azure Regions, please visit the below URL-

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

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**Question 36**

Incorrect

Domain :Describe core Azure services

A company has just set up an Azure subscription and an Azure tenant. They want to start deploying resources on the Azure platform. They want to use an Azure service that could create and update the resources as a group, rather than handling them individually, within the Azure subscription.

Which of the following could be used for this requirement?

- A. Availability Zones

- ✓ B. Azure Resource Groups ×
- C. Azure Resource Manager ✓
- D. Azure Regions

---

**Explanation:**

Answer – C

This can be done with the help of the Azure Resource Manager.

The Microsoft documentation mentions the following.

## Azure Resource Manager overview

08/29/2019 • 5 minutes to read •  +7

Azure Resource Manager is the deployment and management service for Azure. It provides a management layer that enables you to create, update, and delete resources in your Azure subscription. You use management features, like access control, locks, and tags, to secure and organize your resources after deployment.

# The benefits of using Resource Manager

With Resource Manager, you can:

- Manage your infrastructure through declarative templates rather than scripts.
- Deploy, manage, and monitor all the resources for your solution as a group, rather than handling these resources individually.
- Redeploy your solution throughout the development lifecycle and have confidence your resources are deployed in a consistent state.
- Define the dependencies between resources so they're deployed in the correct order.
- Apply access control to all services in your resource group because Role-Based Access Control (RBAC) is natively integrated into the management platform.
- Apply tags to resources to logically organize all the resources in your subscription.
- Clarify your organization's billing by viewing costs for a group of resources sharing the same tag.

Since this is clearly mentioned in the documentation, all other options are incorrect.

For more information on Azure Resource Manager, please visit the below URL-

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

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**Question 37**

**Correct**

Domain :Describe core Azure services

A company is planning to set up a database on Azure SQL database service. Would the company administrative team have full control over the underlying server hosting the Azure SQL database?

- A. Yes
- ✓ B. No 

---

**Explanation:**

Answer – B

The Azure SQL database service is a Platform as a service. Here the underlying infrastructure is completely managed by Azure.

The Microsoft documentation mentions the following.

# What is the Azure SQL Database service?

04/08/2019 • 20 minutes to read •  +21

Azure SQL Database is a general-purpose relational database, provided as a managed service. With it, you can create a highly available and high-performance data storage layer for the applications and solutions in Azure. SQL Database can be the right choice for a variety of modern cloud applications because it enables you to process both relational data and non-relational structures, such as graphs, JSON, spatial, and XML.

For more information on the Azure SQL database, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-technical-overview>

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**Question 38**

**Correct**

Domain :Describe core Azure services

Would a company's administrative team have full control over a virtual machine to install an application?

✓ A. Yes 

B. No

---

#### Explanation:

Answer – A

The Azure virtual machine service is an Infrastructure as a service. Here you can install applications on the underlying virtual machine.

The Microsoft documentation mentions the following.

## Overview of Windows virtual machines in Azure

10/04/2018 • 7 minutes to read •  +7

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. This article gives you information about what you should consider before you create a VM, how you create it, and how you manage it.

An Azure VM gives you the flexibility of virtualization without having to buy and maintain the physical hardware that runs it. However, you still need to maintain the VM by performing tasks, such as configuring, patching, and installing the software that runs on it.

For more information on Azure virtual machines, please visit the below URL-

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

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**Question 39****Correct****Domain :Describe core Azure services**

A company is planning to deploy a web application to the Azure Web App service. Would the company administrative team have full control over the underlying machine hosting the web application?

- A. Yes
- B. No 

**Explanation:**

Answer – B

The Azure Web App service is Platform as a service. Here the underlying infrastructure is completely managed by Azure.

The Microsoft documentation mentions the following.

# App Service overview

01/04/2017 • 2 minutes to read • 

Azure App Service is an HTTP-based service for hosting web applications, REST APIs, and mobile back ends. You can develop in your favorite language, be it .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python. Applications run and scale with ease on both Windows and Linux-based environments. For Linux-based environments, see [App Service on Linux](#).

App Service not only adds the power of Microsoft Azure to your application, such as security, load balancing, autoscaling, and automated management. You can also take advantage of its DevOps capabilities, such as continuous deployment from Azure DevOps, GitHub, Docker Hub, and other sources, package management, staging environments, custom domain, and SSL certificates.

For more information on Azure App Service, please visit the below URL-

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

---

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**Question 40**

**Correct**

Domain :Describe core Azure services

You have just set up a Windows virtual machine in Azure. The machine is currently in the stopped state. The details of the machine are given below.

---

|   |   |
|---|---|
| Resource group ( <a href="#">change</a> ) | Computer name                             |
| <a href="#">whizlabs-rg</a>               | (start VM to view)                        |
| Status                                    | Operating system                          |
| Stopped (deallocated)                     | Windows                                   |
| Location                                  | Size                                      |
| Central US                                | Standard DS1 v2 (1 vcpus, 3.5 GiB memory) |
| Subscription ( <a href="#">change</a> )   | Ephemeral OS disk                         |
| <a href="#">Pay-As-You-Go</a>             | N/A                                       |
| Subscription ID                           | Public IP address                         |
| baaa99b3-1d19-4c5e-90e1-39d55de5fc6e      | <a href="#">whizlabvm-ip</a>              |
|   | Private IP address                        |
|   | 10.0.0.4                                  |
|   | Virtual network/subnet                    |
|   | <a href="#">whizlabs-rg-vnet/default</a>  |
|   | DNS name                                  |
|   | <a href="#">Configure</a>                 |

The virtual machine currently has one disk assigned to the machine which is the OS level disk.

| NAME  | SIZE    | STORAGE ACCO... | ENCRYPTION  | HOST CACHING |
|---|---------|-----------------|-------------|--------------|
| <a href="#">whizlabvm_OsDisk_1_addf931ff52044449...</a> | 127 GiB | Premium SSD     | Not enabled | Read/write   |

Would you be charged for the computing cost of the virtual machine in its current state?

- A. Yes
- B. No

---

### Explanation:

Answer – B

When the machine is in the Stopped (Deallocated) state, the compute costs are no longer charged to the customer.

The Microsoft documentation FAQ's on virtual machines mention the following.

## If my deployed instance says "stopped," am I still getting billed?



Maybe. If the status says "Stopped (Deallocated)," you're not being billed. If it says, "Stopped Allocated," you're still being billed for allocated virtual cores (not the software license itself). Full details on virtual machine states are available on the [documentation page](#).

For more information on the pricing for Azure Windows virtual machines, please visit the below URL-

<https://azure.microsoft.com/en-us/pricing/details/virtual-machines/windows/>

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**Question 41**

Correct

Domain :Describe core Azure services

You have just set up a Windows virtual machine in Azure. The machine is currently in the stopped state. The details of the machine are given below.

---

|   |   |
|---|---|
| Resource group ( <a href="#">change</a> ) | Computer name                             |
| <a href="#">whizlabs-rg</a>               | (start VM to view)                        |
| Status                                    | Operating system                          |
| Stopped (deallocated)                     | Windows                                   |
| Location                                  | Size                                      |
| Central US                                | Standard DS1 v2 (1 vcpus, 3.5 GiB memory) |
| Subscription ( <a href="#">change</a> )   | Ephemeral OS disk                         |
| <a href="#">Pay-As-You-Go</a>             | N/A                                       |
| Subscription ID                           | Public IP address                         |
| baaa99b3-1d19-4c5e-90e1-39d55de5fc6e      | <a href="#">whizlabvbm-ip</a>             |
|   | Private IP address                        |
|   | 10.0.0.4                                  |
|   | Virtual network/subnet                    |
|   | <a href="#">whizlabs-rg-vnet/default</a>  |
|   | DNS name                                  |
|   | <a href="#">Configure</a>                 |

The virtual machine currently has one disk assigned to the machine which is the OS level disk.

| NAME   | SIZE    | STORAGE ACCO... | ENCRYPTION  | HOST CACHING |
|--|---------|-----------------|-------------|--------------|
| <a href="#">whizlabvbm_OsDisk_1_addf931ff52044449...</a> | 127 GiB | Premium SSD     | Not enabled | Read/write   |

Would you be charged for the underlying disks attached to the virtual machine in its current state?

- ✓ A. Yes 
- B. No

---

#### Explanation:

Answer – A

You are always charged for the OS disk attached to the virtual machine.

The Microsoft documentation FAQ's on virtual machines mention the following.

## General

Am I billed separately for local disk storage?

No. All new virtual machines have an operating system disk and a local disk (or "resource disk"). We don't charge for local disk storage. The operating system disk is charged at the regular rate for disks. [See all virtual machines configurations.](#)

For more information on the pricing for Azure Windows virtual machines, please visit the below URL-

<https://azure.microsoft.com/en-us/pricing/details/virtual-machines/windows/>

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**Question 42**

Correct

Domain :Describe core Azure services

You have just set up a Windows virtual machine in Azure. The machine is currently in the stopped state. The details of the machine are given below.

|   |   |
|---|---|
| Resource group ( <a href="#">change</a> ) | Computer name                             |
| <a href="#">whizlabs-rg</a>               | (start VM to view)                        |
| Status                                    | Operating system                          |
| Stopped (deallocated)                     | Windows                                   |
| Location                                  | Size                                      |
| Central US                                | Standard DS1 v2 (1 vcpus, 3.5 GiB memory) |
| Subscription ( <a href="#">change</a> )   | Ephemeral OS disk                         |
| <a href="#">Pay-As-You-Go</a>             | N/A                                       |
| Subscription ID                           | Public IP address                         |
| baaa99b3-1d19-4c5e-90e1-39d55de5fc6e      | <a href="#">whizlabvbm-ip</a>             |
|   | Private IP address                        |
|   | 10.0.0.4                                  |
|   | Virtual network/subnet                    |
|   | <a href="#">whizlabs-rg-vnet/default</a>  |
|   | DNS name                                  |
|   | <a href="#">Configure</a>                 |

The virtual machine currently has one disk assigned to the machine which is the OS level disk.

| NAME   | SIZE    | STORAGE ACCO... | ENCRYPTION  | HOST CACHING |
|--|---------|-----------------|-------------|--------------|
| <a href="#">whizlabvbm_OsDisk_1_addf931ff52044449...</a> | 127 GiB | Premium SSD     | Not enabled | Read/write   |

Would you be charged for the private IP address assigned to the virtual machine in its current state?

- A. Yes
- ✓ B. No 

#### Explanation:

Answer – B

You are only charged for the public IP addresses and not for the private IP addresses.

For more information on the pricing for IP addresses, please visit the below URL-

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

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**Question 43****Incorrect****Domain :Understand Security, Privacy, Compliance, and Trust**

A company has just setup an Azure subscription and an Azure tenant. They want to implement strict policies when it comes to the security of Azure resources. They want to implement the following requirements

Ensure that the Virtual Machine Administrator team is restricted to the usage of the available regions for the deployment of new resources.

Ensure that the Virtual Machine Administrator team can only deploy virtual machines and their dependent resources.

Ensure that no one can accidentally delete the virtual machines deployed by the Virtual Machine Administrator team

Which of the following could be used to fulfil the below requirement?

*"Ensure that the Virtual Machine Administrator team is restricted to the usage of the available regions for the deployment of new resources"*

- A. Azure Role-Based Access Control
- B. Azure Identity Protection
- C. Azure Policies 
- ✓ D. Azure Locks 

---

**Explanation:**

Answer – C

You can accomplish this with the help of policies. There is an in-built policy also available for this purpose

## Allowed virtual machine SKUs

Policy definition

[Assign](#) [Edit definition](#) [Duplicate definition](#) [Delete definition](#)

|             |   |   |                       |  |
|-------------|---|---|-----------------------|--|
| Name        | : | Allowed virtual machine SKUs  | Definition location : | --   |
| Description | : | This policy enables you to specify a set of virtual machine SKUs t... | Definition ID         | : /providers/Microsoft.Authorization/policyDefinitions/cccc... |
| Effect      | : | Deny  | Type                  | : Built-in   |
| Category    | : | Compute   | Mode                  | : Indexed  |

▲

[Definition](#) [Assignments \(0\)](#) [Parameters](#)

Option A is incorrect since this is used to give authorization to use Azure resources

Option B is incorrect since this is used to protect Azure AD identities

Option D is incorrect since this is used to protect Azure resources from users accidentally updating or deleting Azure resources

For more information on Azure policies, please visit the below URL

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

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**Question 44****Correct**

Domain :Describe identity, governance, privacy, and compliance features

A company has just set up an Azure subscription and an Azure tenant. They want to implement strict policies when it comes to the security of Azure resources. They want to implement the following requirements.

Ensure that only the Virtual Machine Administrator team can deploy virtual machines of a particular size.

Ensure that only the Virtual Machine Administrator team can deploy virtual machines and their dependent resources.

Ensure that no one can accidentally delete the virtual machines deployed by the Virtual Machine Administrator team.

Which of the following could be used to fulfill the below requirement?

*"Ensure that the Virtual Machine Administrator team can only deploy virtual machines and their dependent resources."*

- ✓ A. Azure Role-Based Access Control 
- B. Azure Identity Protection
- C. Azure Policies
- D. Azure Locks

---

**Explanation:**

Answer – A

You can achieve this with Role-Based Access Control. You can deploy the Administrators to one group and just provide the role for virtual machine access.

The Microsoft documentation mentions the following.

# What is role-based access control (RBAC) for Azure resources?

09/11/2019 • 7 minutes to read • 

Access management for cloud resources is a critical function for any organization that is using the cloud. Role-based access control (RBAC) helps you manage who has access to Azure resources, what they can do with those resources, and what areas they have access to.

RBAC is an authorization system built on [Azure Resource Manager](#) that provides fine-grained access management of Azure resources.

## What can I do with RBAC?

Here are some examples of what you can do with RBAC:

- Allow one user to manage virtual machines in a subscription and another user to manage virtual networks
- Allow a DBA group to manage SQL databases in a subscription
- Allow a user to manage all resources in a resource group, such as virtual machines, websites, and subnets
- Allow an application to access all resources in a resource group

Option B is incorrect since this is used to protect Azure AD identities.

Option C is incorrect since this is used to govern the resources in Azure.

Option D is incorrect since this is used to protect Azure resources from users accidentally updating or deleting Azure resources.

For more information on Azure Role-based access control, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/role-based-access-control/overview>

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**Question 45****Correct****Domain :Describe identity, governance, privacy, and compliance features**

A company has just set up an Azure subscription and an Azure tenant. They want to implement strict policies when it comes to the security of Azure resources. They want to implement the following requirements.

Ensure that the Virtual Machine Administrator team can only deploy virtual machines of a particular size.

Ensure that the Virtual Machine Administrator team can only deploy virtual machines and their dependent resources.

Ensure that no one can accidentally delete the virtual machines deployed by the Virtual Machine Administrator team.

Which of the following could be used to fulfill the below requirement?

*"Ensure that no one can accidentally delete the virtual machines deployed by the Virtual Machine Administrator team."*

- A. Azure Role-Based Access Control
- B. Azure Identity Protection
- C. Azure Policies
- ✓ D. Azure Locks 

**Explanation:**

Answer – D

This can be achieved with the help of Azure Locks.

The Microsoft documentation mentions the following.

# Lock resources to prevent unexpected changes

05/14/2019 • 6 minutes to read •  +4

As an administrator, you may need to lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. You can set the lock level to **CanNotDelete** or **ReadOnly**. In the portal, the locks are called **Delete** and **Read-only** respectively.

- **CanNotDelete** means authorized users can still read and modify a resource, but they can't delete the resource.
- **ReadOnly** means authorized users can read a resource, but they can't delete or update the resource. Applying this lock is similar to restricting all authorized users to the permissions granted by the **Reader** role.

Option A is incorrect since this is used to give authorization to use Azure resources.

Option B is incorrect since this is used to protect Azure AD identities.

Option C is incorrect since this is used to govern the resources in Azure.

For more information on Azure Locks, please visit the below URL-

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

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Question 46

Correct

Domain :Describe Azure cost management and Service Level Agreements

A company has just started using Azure. They have set up resources as part of their subscription.

They want to get the current costs being incurred.

They decide to use Azure Cost Management to get this information.

Would this fulfill the requirement?

✓ A. Yes 

B. No

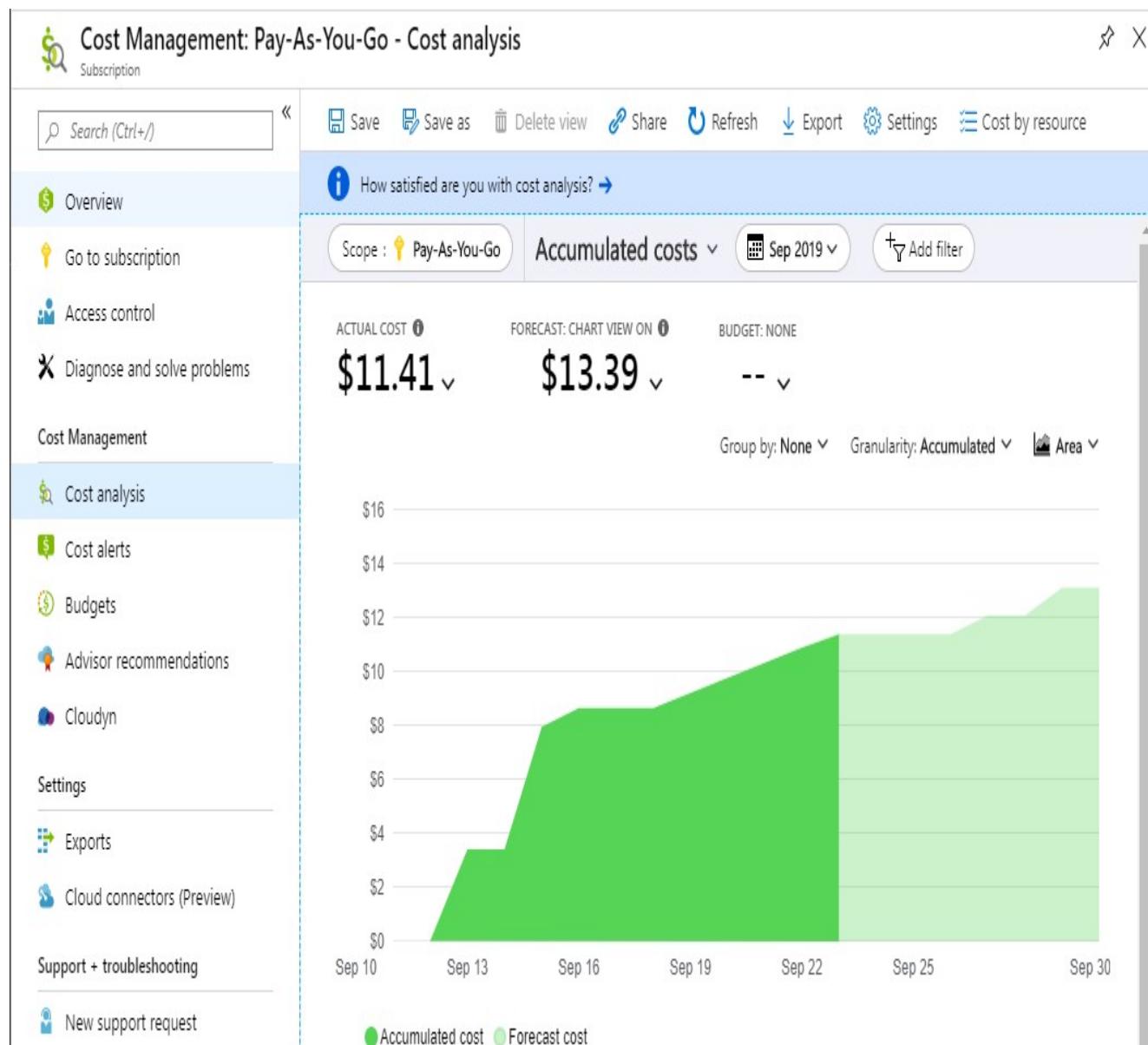
---

**Explanation:**

Answer – A

Yes, this would give a cost breakdown for the resources being used in Azure.

An example is given below where you go to the Cost Analysis section in Cost Management.



For more information on Azure Cost Management, please visit the below URL-

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

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Question 47

Correct

Domain :Describe Azure cost management and Service Level Agreements

A company has just started using Azure. They have set up resources as part of their subscription.

They want to get the current costs being incurred.

They decide to use the Pricing Calculator to get this information.

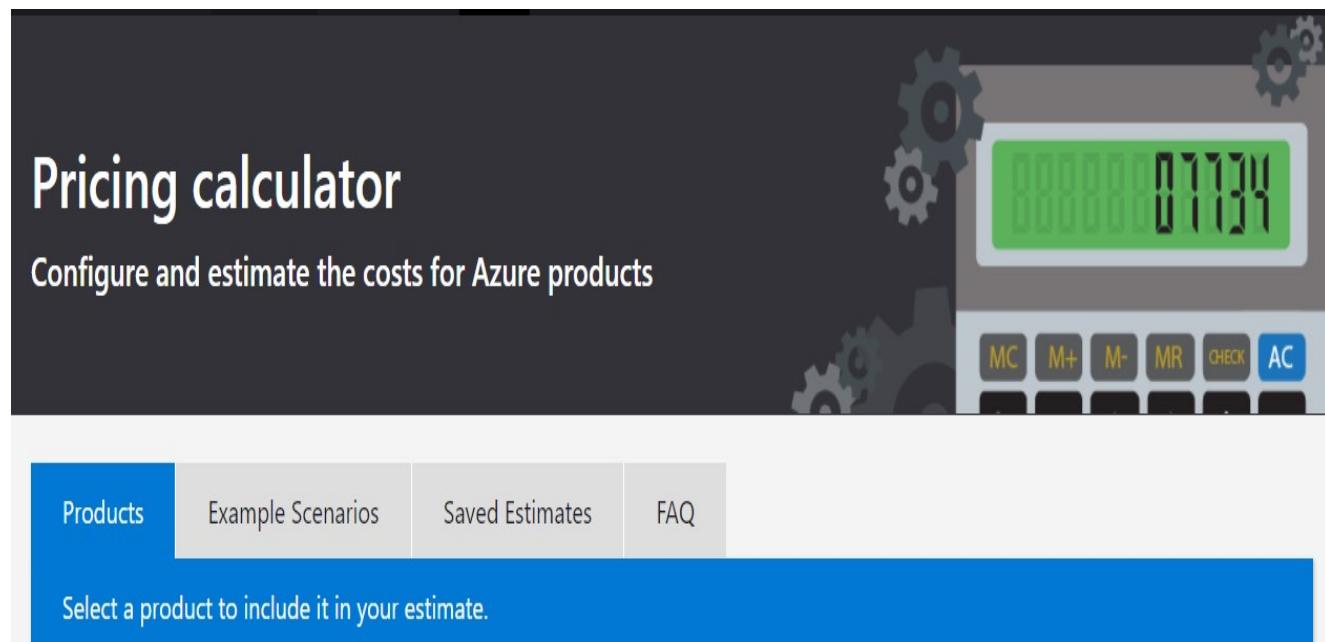
Would this fulfill the requirement?

- A. Yes
- ✓ B. No 

#### Explanation:

Answer - B

This tool is used as a cost estimation tool.



For more information on the pricing calculator, please visit the below URL-

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

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**Question 48**

Correct

Domain :Describe Azure cost management and Service Level Agreements

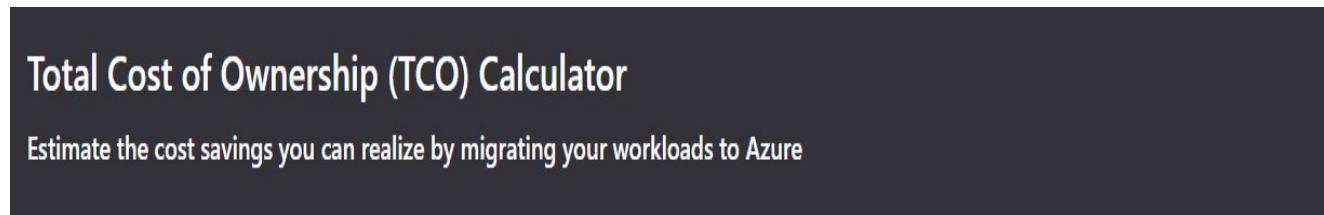
A company has just started using Azure. They have set up resources as part of their subscription. They want to get the current costs being incurred. They decide to use the TCO calculator to get this information. Would this fulfill the requirement?

- A. Yes
- ✓ B. No 

#### Explanation:

Answer - B

This is used to calculate the costs when you move your current infrastructure to Azure.



For more information on the TCO calculator, please visit the below URL-

<https://azure.microsoft.com/en-us/pricing/tco/calculator/>

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**Question 49**

**Correct**

Domain :Describe general security and network security features

A company is currently planning to set up resources as part of its Azure subscription. They are looking at different security options that can be used to secure their Azure environment.

Which of the following could be used for the following requirement?

*"Provide the ability to restrict traffic into Azure virtual machines."*

- A. Azure Key Vault
- ✓ B. Azure Network Security Groups 
- C. Azure Multi-Factor Authentication
- D. Azure DDoS Protection

---

#### Explanation:

Answer - B

This can be accomplished with the help of Network Security Groups.

The Microsoft documentation mentions the following.

## Security groups

07/26/2018 • 25 minutes to read •  +11

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. To learn about which Azure resources can be deployed into a virtual network and have network security groups associated to them, see [Virtual network integration for Azure services](#). For each rule, you can specify source and destination, port, and protocol.

Option A is incorrect since this is used to store secrets, certificates and keys.

Option C is incorrect since this is used to provide an extra level of security during user authentication.

Option D is incorrect since this is used to protect against Distributed denial of service (DDoS) attacks.

For more information on network security, please visit the below URL-

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

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Question 50

Correct

Domain :Describe identity, governance, privacy, and compliance features

A company is currently planning to set up resources as part of its Azure subscription. They are looking at different security options that can be used to secure their Azure environment.

Which of the following could be used for the following requirement?

*"Provide an extra level of security when users log into the Azure Portal."*

- A. Azure Key Vault
- B. Azure Network Security Groups
- ✓ C. Azure Multi-Factor Authentication 
- D. Azure DDoS Protection

---

#### Explanation:

Answer – C

The extra level of security can be accomplished by providing a facility of Multi-Factor Authentication.

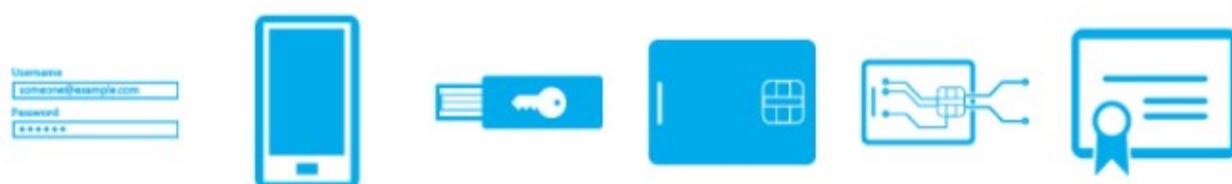
The Microsoft documentation mentions the following.

# How it works: Azure Multi-Factor Authentication

06/03/2018 • 2 minutes to read •  +2

The security of two-step verification lies in its layered approach. Compromising multiple authentication factors presents a significant challenge for attackers. Even if an attacker manages to learn the user's password, it is useless without also having possession of the additional authentication method. It works by requiring two or more of the following authentication methods:

- Something you know (typically a password)
- Something you have (a trusted device that is not easily duplicated, like a phone)
- Something you are (biometrics)



Option A is incorrect since this is used to store secrets, certificates and keys.

Option B is incorrect since this is used to restrict traffic into and out of Azure virtual machines.

Option D is incorrect since this is used to protect against Distributed denial of service (DDoS) attacks.

For more information on multi-factor authentication, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-mfa-howitworks>

---

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**Question 51****Correct****Domain :Describe general security and network security features**

A company is currently planning to set up resources as part of its Azure subscription. They are looking at different security options that can be used to secure their Azure environment.

Which of the following could be used for the following requirement?

*"Provide a store that can be used to store secrets."*

- ✓ A. Azure Key Vault 
- B. Azure Network Security Groups
- C. Azure Multi-Factor Authentication
- D. Azure DDoS Protection

---

**Explanation:**

Answer – A

You can store secrets in the Azure Key Vault service.

The Microsoft documentation mentions the following.

# What is Azure Key Vault?

01/07/2019 • 4 minutes to read •  +4

Azure Key Vault helps solve the following problems:

- **Secrets Management** - Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets
- **Key Management** - Azure Key Vault can also be used as a Key Management solution. Azure Key Vault makes it easy to create and control the encryption keys used to encrypt your data.
- **Certificate Management** - Azure Key Vault is also a service that lets you easily provision, manage, and deploy public and private Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for use with Azure and your internal connected resources.
- **Store secrets backed by Hardware Security Modules** - The secrets and keys can be protected either by software or FIPS 140-2 Level 2 validates HSMs

Option B is incorrect since this is used to restrict traffic into and out of Azure virtual machines.

Option C is incorrect since this is used to provide an extra level of security during user authentication.

Option D is incorrect since this is used to protect against Distributed denial of service (DDoS) attacks.

For more information on the Azure Key Vault service, please visit the below URL-

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

---

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Question 52

Correct

**Domain :Describe general security and network security features**

A company is currently planning to set up resources as part of its Azure subscription. They are looking at different security options that can be used to secure their Azure environment.

Which of the following could be used for the following requirement?

*"Provide Protection against distributed denial of service attacks."*

- A. Azure Key Vault
- B. Azure Network Security Groups
- C. Azure Multi-Factor Authentication
- ✓ D. Azure DDoS Protection 

---

**Explanation:**

Answer – D

You can protect your environment from such attacks by using Azure DDoS Protection.

# Azure DDoS Protection



Protect your Azure resources from Distributed Denial of Service (DDoS) attacks

[Start free >](#)

Explore DDoS Protection: [Pricing details](#) [Documentation](#) [Updates](#)

## Product features

- ✓ Always-on monitoring and automatic network attack mitigation
- ✓ Integration with Azure Monitor for analytics and insights
- ✓ Adaptive tuning based on platform insights in Azure
- ✓ Protection against the unforeseen costs of a DDoS attack
- ✓ Application layer protection with Azure Application Gateway Web Application Firewall

Option A is incorrect since this is used to store secrets, certificates and keys.

Option B is incorrect since this is used to restrict traffic into and out of Azure virtual machines.

Option C is incorrect since this is used to provide an extra level of security during user authentication.

For more information on the Azure DDoS protection service, please visit the below URL-

<https://azure.microsoft.com/en-us/services/ddos-protection/>

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**Question 53****Correct****Domain :Describe cloud concepts**

You are trying to understand the different cloud models. Which of the following are advantages of using the public cloud? Choose 2 answers from the options given below.

- ✓ A. Lower Capital Costs 
- B. Higher maintenance
- ✓ C. High reliability 
- D. Higher Capital Costs

---

**Explanation:**

Answer – A and C

The advantages for using the public cloud is given in the Microsoft documentation.

## What is a public cloud?

Public clouds are the most common way of deploying cloud computing. The cloud resources (like servers and storage) are owned and operated by a third-party [cloud service provider](#) and delivered over the Internet. [Microsoft Azure](#) is an example of a public cloud. With a public cloud, all hardware, software, and other supporting infrastructure is owned and managed by the cloud provider. In a public cloud, you share the same hardware, storage, and network devices with other organizations or cloud "tenants." You access services and manage your account using a web browser. Public cloud deployments are frequently used to provide web-based email, online office applications, storage, and testing and development environments.

## Advantages of public clouds:

- Lower costs—no need to purchase hardware or software, and you pay only for the service you use.
- No maintenance—your service provider provides the maintenance.
- Near-unlimited scalability—on-demand resources are available to meet your business needs.
- High reliability—a vast network of servers ensures against failure.

Since this is clearly given in the Microsoft documentation, all other options are incorrect.

For more information on comparing the different models, please visit the below URL-

<https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/>

---

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### Question 54

Incorrect

Domain :Describe cloud concepts

You are trying to understand the different cloud models. Which of the following are advantages of using the private cloud? Choose 2 answers from the options given below.

- A. Less Flexibility
- ✓ B. Better security 
- C. High scalability 
- ✓ D. Less costs 

---

### Explanation:

Answer – B and C

The advantages of using the private cloud is given in the Microsoft documentation.

## What is a private cloud?

A private cloud consists of computing resources used exclusively by one business or organization. The private cloud can be physically located at your organization's on-site datacenter, or it can be hosted by a third-party service provider. But in a private cloud, the services and infrastructure are always maintained on a private network and the hardware and software are dedicated solely to your organization. In this way, a private cloud can make it easier for an organization to customize its resources to meet specific IT requirements. Private clouds are often used by government agencies, financial institutions, any other mid- to large-size organizations with business-critical operations seeking enhanced control over their environment.

### Advantages of a private clouds:

- More flexibility—your organization can customize its cloud environment to meet specific business needs.
- Improved security—resources are not shared with others, so higher levels of control and security are possible.
- High scalability—private clouds still afford the scalability and efficiency of a public cloud.

Since this is clearly given in the Microsoft documentation, all other options are incorrect.

For more information on comparing the different models, please visit the below URL-

<https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/>

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Question 55

Incorrect

Domain :Describe cloud concepts

You are trying to understand the different cloud models. Which of the following are advantages of using a hybrid cloud model? Choose 2 answers from the options given below.

- A. Maintain Control 
- ✓ B. Higher costs 

✓ C. More Flexibility 

D. Less Maintenance

#### **Explanation:**

Answer – A and C

The advantages of using a hybrid cloud model is given in the Microsoft documentation.

## What is a hybrid cloud?

Often called “the best of both worlds,” hybrid clouds combine on-premises infrastructure, or private clouds, with public clouds so organizations can reap the advantages of both. In a hybrid cloud, data and applications can move between private and public clouds for greater flexibility and more deployment options. For instance, you can use the public cloud for high-volume, lower-security needs such as web-based email, and the private cloud (or other on-premises infrastructure) for sensitive, business-critical operations like financial reporting. In a hybrid cloud, “cloud bursting” is also an option. This is when an application or resource runs in the private cloud until there is a spike in demand (such as seasonal event like online shopping or tax filing), at which point the organization can “burst through” to the public cloud to tap into additional computing resources.

### Advantages of hybrid clouds:

- Control—your organization can maintain a private infrastructure for sensitive assets.
- Flexibility—you can take advantage of additional resources in the public cloud when you need them.
- Cost-effectiveness—with the ability to scale to the public cloud, you pay for extra computing power only when needed.
- Ease—transitioning to the cloud doesn’t have to be overwhelming because you can migrate gradually—phasing in workloads over time.

Since this is clearly given in the Microsoft documentation, all other options are incorrect.

For more information on comparing the different models, please visit the below URL-

<https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/>

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