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Completed on 04-February-2021



Attempt



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No	Domain	Total Question	Correct	Incorrect	Unattempted	Marked as Review
1	Describe Azure cost management and Service Level Agreements	13	1	0	12	0
2	Describe identity, governance, privacy, and compliance features	5	0	0	5	0
3	Describe general security and network security features	5	0	0	5	0
4	Describe core Azure services	10	0	0	10	0
5	Describe core solutions and management tools on Azure	14	0	0	14	0
6	Describe cloud concepts	8	0	0	8	0
Total	All Domain	55	1	0	54	0

Review the Answers

Sorting by

All

Question 1

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company has just set up an Azure virtual private connection between its on-premise network and an Azure virtual network. Would the company need to pay additional costs to transfer several gigabits of data from their on-premise network to Azure?

- A. Yes
- B. No 

Explanation:

Answer – B

Data transfers to the Azure data center are free.

The Microsoft documentation mentions the following.

Pricing details

Inbound data transfers

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

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

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

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Question 2

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

You are planning on setting up an Azure Free Account. Will you have access to **only a subset of Azure services for free after the first 30 days** of account activation?

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 3

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company is planning to upgrade its current Azure AD Free plan to the Azure AD Premium P1 plan. Does Microsoft provide the same feature set for both plans?

- A. Yes
- B. No

Explanation:

Answer – B

The support plans have different feature sets.

The Microsoft documentation mentions the following.

Pricing details

Azure Active Directory comes in four editions—Free, Office 365 apps, Premium P1, and Premium P2. The Free edition is included with a subscription of a commercial online service, e.g. Azure, Dynamics 365, Intune, and Power Platform. Office 365 subscriptions include the Free edition, but Office 365 E1, E3, E5, F1 and F3 subscriptions also include the features listed under the Office 365 apps column. The Premium editions are available through your Microsoft representative, the [Open Volume License Program](#), and the [Cloud Solution Providers](#) program. Azure and Office 365 subscribers can also buy Azure Active Directory Premium P1 and P2 online. [Sign in here](#) to purchase.

Below link provides more information about features supported in different Azure AD plans with their pricing details.

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

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Question 4

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company is planning to host 2 Virtual Machines in Azure, as shown below.

Virtual Machine Name	Virtual Machine Size	Region
VM1	Standard_B1ms_v3	East US

demovm	B1S	East US 2
demovm1	B1S	West Central US

Would both the Virtual Machines always generate the same monthly costs?

- A. Yes
- B. No

Explanation:

Answer – B

The costing for a Virtual Machine depends on the region where it is hosted.

Below is a screenshot from the link given below where the pricing for a Virtual Machine changes as the region value changes.

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

OS/Software:	Region:	Currency:	Display pricing by:
Windows OS	East US 2	Indian Rupee (₹)	Hour

Category: [All](#) [General purpose](#) [Compute optimised](#) [Memory optimised](#) [Storage optimised](#) [GPU](#) [High performance compute](#)

Bs-series

Bs-series are economical virtual machines that provide a low-cost option for workloads that typically run at a low to moderate baseline CPU performance, but sometimes need to burst to significantly higher CPU performance when the demand rises. These workloads do not require the use of the full CPU all the time, but occasionally will need to burst to finish some tasks more quickly. Many applications such as development and test servers, low traffic web servers, small databases, micro services, servers for proof-of-concepts, build servers and code repositories fit into this model.

 [SHOW AZURE HYBRID BENEFIT PRICING](#)

Add to estimate	Instance	vCPU(s)	RAM	Temporary storage	Pay as you go with AHB	1 year reserved with AHB (% Savings)	3 year reserved with AHB (% Savings)	Spot with AHB (% Savings)
	B1S	1	1 GiB	4 GiB	₹0.6875/hour	₹0.3999/hour (~42%)	₹0.2591/hour (~62%)	--

OS/Software: Region: Currency: Display pricing by:

Category: [All](#) [General purpose](#) [Compute optimised](#) [Memory optimised](#) [Storage optimised](#) [GPU](#) [High performance compute](#)

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 SHOW AZURE HYBRID BENEFIT PRICING

Add to estimate	Instance	vCPU(s)	RAM	Temporary storage	Pay as you go with AHB	1 year reserved with AHB (% Savings)	3 year reserved with AHB (% Savings)	Spot with AHB (% Savings)
	B1S	1	1 GiB	4 GiB	₹0.8263/hour	₹0.4832/hour (~42%)	₹0.3120/hour (~62%)	--

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 5

Unattempted

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.



Redundancy: LRS Region: Central US Currency: US Dollar (\$)

Pricing offers: Recommended Blob only Other

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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Question 6**Unattempted****Domain :Describe Azure cost management and Service Level Agreements**

A company has a set of Virtual machines defined in Azure. One of the machines was down due to issues with the underlying Azure Infrastructure. The server was down for an extended period of time. So it breached the standard SLA defined by Microsoft. How will Microsoft reimburse the downtime cost?

- A. By directly sending money to the customer's bank account
- B. By spinning up another Virtual Machine free of cost for the client
- C. By providing service credits to the customer 
- D. By providing a service free of cost to use for a specific duration of time.

Explanation:

Answer – C

If you look at the pricing FAQ, you can see that Microsoft offers Service level credits if it does not meet the SLA targets.

- What are the Azure SLA Credits?

Azure SLA Credits are calculated on a per subscription basis as a percentage of the bill for that service in the billing month that the SLA was missed. The service credits are applied to the subsequent month's bill. Generally, we provide 10% credit if we fall below the first threshold (99.95% or 99.9%, depending on the service) and 25% if we fall beneath the subsequent threshold (99%). Please refer to our [SLA page](#) for complete details.

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

For more information on Azure pricing FAQ's, please visit the below URL-

<https://azure.microsoft.com/en-in/support/legal/sla/summary/>

https://azure.microsoft.com/en-in/support/legal/sla/virtual-machines/v1_9/

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

Ask our Experts**Rate this Question?**  **View Queries****open ▾****Question 7****Unattempted**

Domain :Describe Azure cost management and Service Level Agreements

A company wants to start using Azure. They want to deploy a number of resources to their Azure subscription. They want to be informed of the costs of Azure resources goes beyond a certain threshold. Which of the following can help achieve this?

- A. Create an alert in Azure Monitor.
- B. Create a budget in Azure Cost Management. 
- C. Create an alert in Azure Advisor.
- D. Create a cost tag for the resource group.

Explanation:

Answer – B

You can create a budget and get a notification if the costs are going beyond the budget.

The Microsoft documentation mentions the following.

Tutorial: Create and manage Azure budgets

09/09/2019 • 6 minutes to read • 

Budgets in Cost Management help you plan for and drive organizational accountability. With budgets, you can account for the Azure services you consume or subscribe to during a specific period. They help you inform others about their spending to proactively manage costs, and to monitor how spending progresses over time. When the budget thresholds you've created are exceeded, only notifications are triggered. None of your resources are affected and your consumption isn't stopped. You can use budgets to compare and track spending as you analyze costs.

Cost and usage data is typically available within 8-12 hours and budgets are evaluated against these costs every four hours. Email notifications are normally received within 12-16 hours.

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

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

<https://docs.microsoft.com/en-us/azure/cost-management/tutorial-acm-create-budgets>

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Question 8

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company wants to try out a couple of Azure services that are available in public preview. Is it true that services in public preview can only be used via the Azure command-line interface?

- A. Yes
- B. No 

Explanation:

Answer – B

This is not necessarily true. An example is given below. Here there is a preview available for Virtual Machines in Azure Monitor.

Microsoft Azure Search resources, services, and docs

Dashboard > Monitor - Overview

Monitor - Overview

Microsoft

Search (Ctrl+ /)

What's new Get started Tutorials & Demos

Overview (selected)

Activity log

Alerts

Metrics

Logs

Service Health

Insights

Applications

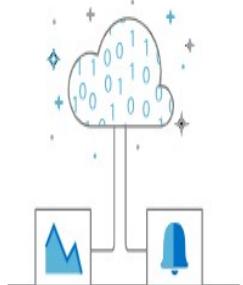
Virtual Machines (preview) (arrow points here)

Containers

Network

More

Monitor your applications and services across the stack. Get full stack visibility.



Monitor & Visualize Metrics

Metrics are numerical values available from Azure Resources helping you understand the health, operation & performance of your systems.

For more information on updates to the Azure platform, please visit the below URL-

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

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Question 9

Unattempted

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
Core Identity and Access Management				
Directory Objects ¹	5,00,000 Object Limit	No 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 10

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company has launched a set of Virtual Machines in their Pay-as-you-go Azure subscription. After launching a set of VM's, they seem to be hitting a constraint. They cannot provision additional Virtual Machines. Which of the following can be done to allow the company to provision more Virtual Machines?

- A. Raise a support ticket with Microsoft. 
- B. Increase the limit in the Azure Monitor.
- C. Increase the limit using the Azure CLI.
- D. Increase the limit in Azure Advisor.

Explanation:

Answer - A

ⓘ Note

If you want to raise the limit or quota above the **Default Limit**, [open an online customer support request at no charge](#). The limits can't be raised above the **Maximum Limit** value shown in the following tables. If there is no **Maximum Limit** column, then the resource doesn't have adjustable limits.

[Free Trial subscriptions](#) are not eligible for limit or quota increases. If you have a [Free Trial subscription](#), you can upgrade to a [Pay-As-You-Go](#) subscription. For more information, see [Upgrade Azure Free Trial to Pay-As-You-Go](#) and [Free Trial subscription FAQ](#).

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

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

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

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Question 11

Unattempted

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

Your company is planning to use Azure AD for authentication of the resources defined in Azure. Does Azure AD have capabilities to implement authorization using Azure RBAC to secure resources?

A. Yes

B. No

Explanation:

Answer – A

For authentication, there are multiple ways to secure the sign-in process. As shown in the Microsoft documentation below, you can use additional security options such as Security questions, Multi-Factor authentication etc.

Azure AD self-service password reset (SSPR) and Multi-Factor Authentication (MFA) may ask for additional information, known as authentication methods or security info, to confirm you are who you say you are when using the associated features.

Administrators can define in policy which authentication methods are available to users of SSPR and MFA. Some authentication methods may not be available to all features.

Microsoft highly recommends Administrators enable users to select more than the minimum required number of authentication methods in case they do not have access to one.

Authentication Method	Usage
Password	MFA and SSPR
Security questions	SSPR Only
Email address	SSPR Only
Microsoft Authenticator app	MFA and public preview for SSPR
OATH Hardware token	Public preview for MFA and SSPR
SMS	MFA and SSPR
Voice call	MFA and SSPR
App passwords	MFA only in certain cases

For authorization, you can use the various roles available in Azure. Below is the concept behind Role-based access control in Azure.

Role-based access control documentation

Role-based access control (RBAC) is a system that provides fine-grained access management of resources in Azure. Using RBAC, you can segregate duties within your team and grant only the amount of access to users that they need to perform their jobs.

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

<https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad#assign-rbac-roles-for-access-rights>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app?toc=/azure/storage/blobs/toc.json>

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Question 12

Unattempted

Domain :Describe general security and network security features

A company wants to make use of Azure for the deployment of various solutions. They want to ensure that suspicious attacks and threats to resources in their Azure account are prevented. Which of the following helps prevent such attacks by using built-in sensors in Azure?

- A. Azure AD Identity Protection
- B. Azure DDoS attacks
- C. Azure Privileged Identity Management
- D. Azure Advanced Threat protection 

Explanation:

Answer – D

The Microsoft documentation states the below feature on the Azure Advanced Threat protection service.

Monitor and profile user behavior and activities

Azure ATP monitors and analyzes user activities and information across your network, such as permissions and group membership, creating a behavioral baseline for each user. Azure ATP then identifies anomalies with adaptive built-in intelligence, giving you insights into suspicious activities and events, revealing the advanced threats, compromised users, and insider threats facing your organization. Azure ATP's proprietary sensors monitor organizational domain controllers, providing a comprehensive view for all user activities from every device.

Options A and C are incorrect since these are used for protecting identities in Azure AD.

Option B is incorrect since this is solely a solution to protect against DDoS attacks.

For more information on Azure Advanced Threat Protection, please visit the below URL-

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

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Question 13

Unattempted

Domain :Describe core Azure services

A company is currently planning to deploy resources to Azure. They want to have the ability to manage user access to resources across multiple subscriptions. Which of the following can help you achieve this requirement?

- A. Resource Groups
- B. Management Groups 
- C. Azure Policies
- D. Azure App Service

Explanation:

Answer – B

The correct answer is B, Management Groups. From the Microsoft Documentation, Azure Management Groups are containers for managing access across multiple Azure subscriptions.

Another scenario where you would use management groups is to provide user access to multi subscriptions. By moving many subscriptions under that management group, you can create one [role-based access control](#) (RBAC) assignment on the management group, which will inherit that access to all the subscriptions. One assignment on the management group can enable users to have access to everything they need instead of scripting RBAC over different subscriptions.

Important facts about management groups

- 10,000 management groups can be supported in a single directory.
- A management group tree can support up to six levels of depth.
 - This limit doesn't include the Root level or the subscription level.
- Each management group and subscription can only support one parent.
- Each management group can have many children.
- All subscriptions and management groups are within a single hierarchy in each directory. See [Important facts about the Root management group](#) for exceptions during the Preview.

Option A is invalid because this is good for grouping your resources together.

Option C is incorrect because Azure Policies are valid only within one subscription.

Option D is invalid because this is used to host your web applications.

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

<https://docs.microsoft.com/en-us/azure/governance/management-groups/>

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 14

Unattempted

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

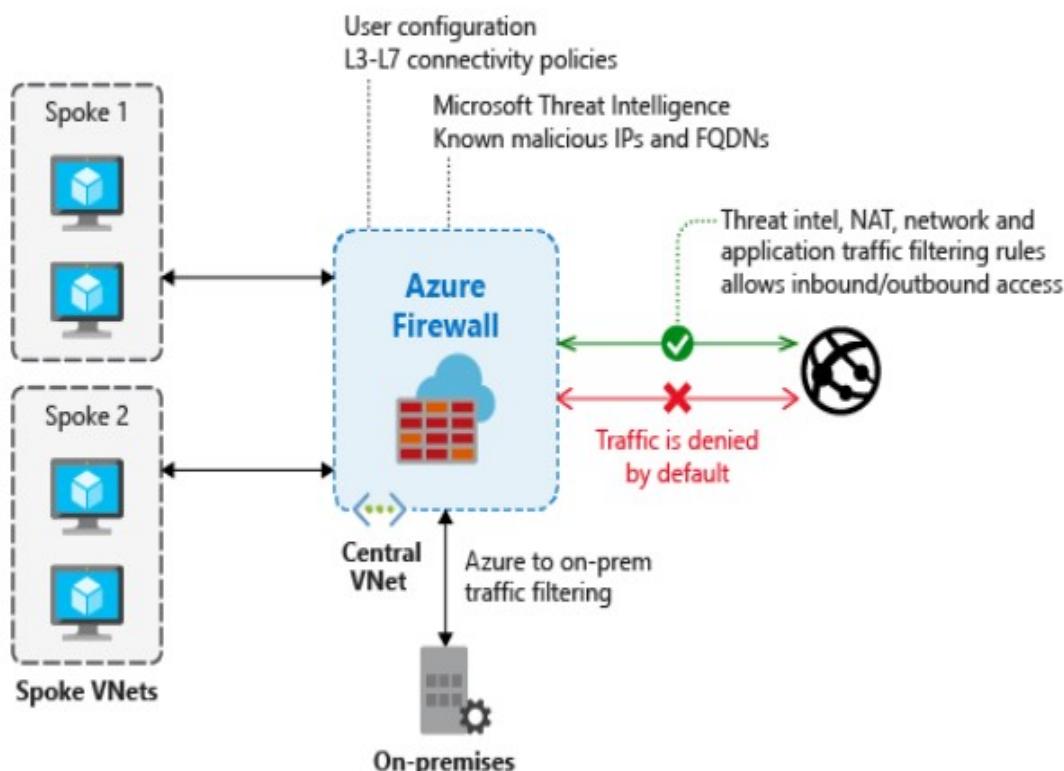
The Azure Firewall service is primarily used to protect your network infrastructure.

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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Question 15**Unattempted****Domain :Describe general security and network security features**

A company is planning to host a set of resources in Azure. They want to protect their resources against DDoS attacks and also get real-time attack metrics. Which of the following should the company opt for?

- A. DDoS Protection Basic
- B. DDoS Protection Standard
- C. DDoS Protection Premium
- D. DDoS Protection Isolated

Explanation:

Answer - B

The Microsoft documentation mentions the following.

Feature	DDoS Protection Basic	DDoS Protection Standard
🔍 Active traffic monitoring & always on detection	Yes	Yes
🚫 Automatic attack mitigations	Yes	Yes
🕒 Availability guarantee	Azure region	Application
📜 Mitigation policies	Tuned for Azure region traffic volume	Tuned for application traffic volume
ℹ️ Metrics & alerts	No	Real time attack metrics & diagnostic logs via Azure monitor
💬 Mitigation reports	No	Post attack mitigation reports
☰ Mitigation flow logs	No	NRT log stream for SIEM integration
📝 Mitigation policy customizations	No	Engage DDoS experts
👤 Support	Best effort	Access to DDoS Experts during an active attack
📅 SLA	Azure region	Application SLA guarantee & cost protection
💲 Pricing	Free	Monthly & usage based

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

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

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

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Question 16

Unattempted

Domain :Describe core solutions and management tools on Azure

A company has a set of resources deployed to Azure. They want to make use of the Azure Advisor tool. Would the Azure Advisor tool give recommendations on how to reduce the cost of running Azure Virtual Machines?

A. Yes 

B. No

Explanation:

Answer – A

Yes, it does. Below is an example of this. Below is a recommendation being given to purchase reserved instances to save costs.

Advisor recommendations

[Download as CSV](#) [Download as PDF](#) [Configure](#)

Subscriptions: Pay-As-You-Go

All types Active No grouping

Overview  High Availability (3)  Security (7)  Performance (0)  Cost (1)  All (11)

For more cost management and optimization capabilities, try Azure Cost Management →

Total recommendations	Recommendations by impact	Impacted resources	Potential yearly savings
1	 1 High impact 0 Medium impact 0 Low impact	1 	34 USD
IMPACT	DESCRIPTION	POTENTIAL YEARLY SAVINGS*	IMPACTED RESOURCES
High	Buy virtual machine reserved instances to save money over pay-as-you-go costs	34.44 USD	1 Virtual machine

For more information on Azure Advisor cost recommendations, please visit the below URL-

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

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Question 17

Unattempted

Domain :Describe core solutions and management tools on Azure

A company has a set of resources deployed to Azure. They want to make use of the Azure Advisor tool. Would the Azure Advisor tool give recommendations on the tenancy?

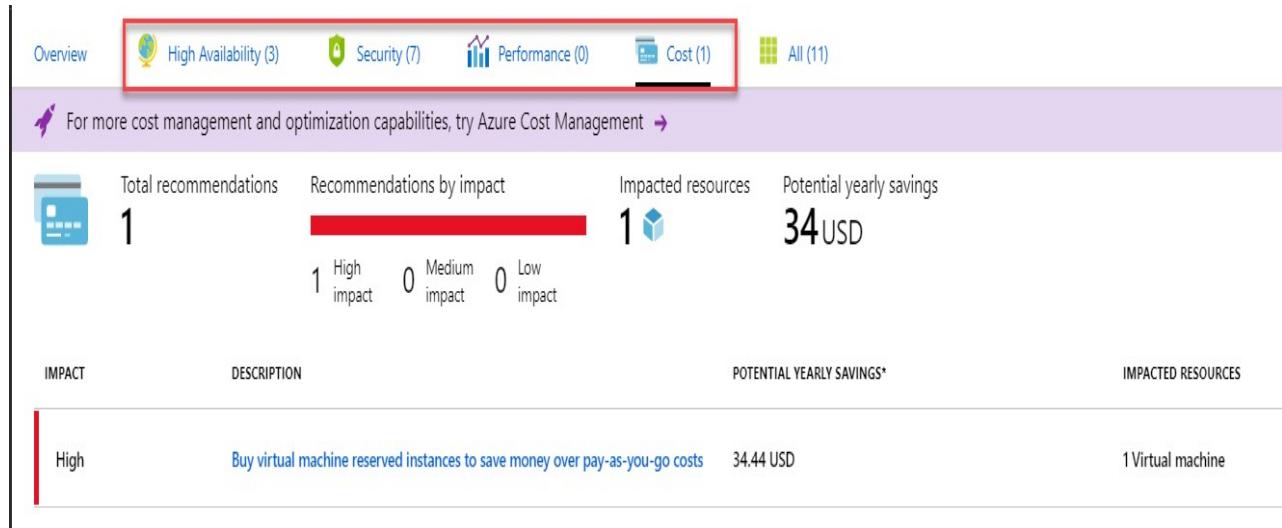
A. Yes

B. No 

Explanation:

Answer – B

If you see the Azure Advisor as shown below, the main area recommendations are High Availability, Security, Performance and Cost.



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

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

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[View Queries](#)[open ▾](#)**Question 18****Unattempted****Domain :Describe core solutions and management tools on Azure**

A company has a set of virtual machines defined in Azure. They want to find out which user shuts down a particular virtual machine in the last 7 days. Which of the following can help with this requirement?

- A. Azure Advisor
- B. Azure Event Hubs
- C. Azure Activity Logs 
- D. Azure Service Health

Explanation:

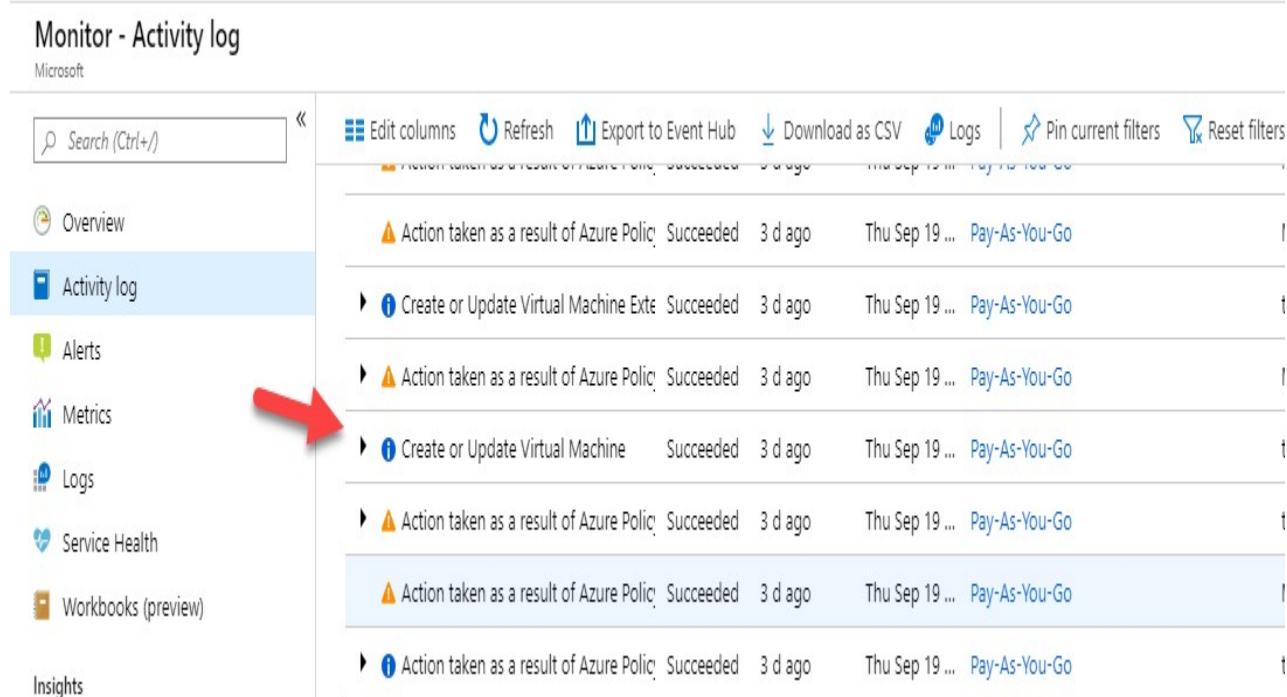
Answer – C

You see all operations on all resources via the use of Azure Activity Logs.

An example is given below shows operations being logged against the Virtual Machine service.

Monitor - Activity log

Microsoft



Action	Result	Time	Resource	Details
Action taken as a result of Azure Policy	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Create or Update Virtual Machine Extension	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Action taken as a result of Azure Policy	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Create or Update Virtual Machine	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Action taken as a result of Azure Policy	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Action taken as a result of Azure Policy	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Action taken as a result of Azure Policy	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go
Action taken as a result of Azure Policy	Succeeded	3 d ago	Thu Sep 19 ...	Pay-As-You-Go

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

For more information on Activity Logs, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/activity-logs-overview>

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Question 19

Unattempted

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 20

Unattempted

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 21

Unattempted

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

A company plans to set up multiple resources in their Azure subscription. They want to implement tagging of resources in Azure. But they want to ensure that when resource groups are created, they have to contain a tag with a name of "organization" and value of "whizlabs". You recommend using Azure policies for implementing this requirement.

Would this recommendation fulfil the requirement?

A. Yes 

B. No

Explanation:

Answer – A

Yes, you can use Azure policies. For this, there is also an inbuilt policy that can be used as shown below to implement tagging for resources groups.

Enforce tag and its value on resource groups
Policy definition

 Assign  Edit definition  Duplicate definition  Delete definition

Name : Enforce tag and its value on resource groups 	Definition location : --
Description : Enforces a required tag and its value on resource groups.	Definition ID : /providers/Microsoft.Authorization/policyDefinitions/8ce3da23-7156-49e4-b145-24f95f9dcba4
Effect : Deny	Type : Built-in
Category : General	Mode : All



Definition (JSON) Parameters

```
1  {
2    "if": {
3      "allOf": [
4        {
5          "field": "[concat('tags[', parameters('tagName'), ']')]",
6          "notEquals": "[parameters('tagValue')]"
7        },
8        {
9          "field": "type",
10         "equals": "Microsoft.Resources/subscriptions/resourceGroups"
11       }
12     ]
13   },
14   "then": {
15     "effect": "deny"
16   }
17 }
```

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 22

Unattempted

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

A company is planning to host resources in Azure. They want to ensure that Azure complies with the rules and regulations of the region for hosting resources. Which of the following can assist the company in getting the required compliance reports?

- A. Azure AD
- B. Microsoft Trust Center 
- C. Azure Advisor
- D. Azure Security Center

Explanation:

Answer – B

The Microsoft documentation mentions what the services offered by the Microsoft Trust Center are.

Here's what you find at the Microsoft Trust Center:

- [Security](#) – Learn how all the Microsoft Cloud services are secured.
- [Privacy](#) – Understand how Microsoft ensures privacy of your Data in the Microsoft cloud.
- [Compliance](#) – Discover how Microsoft helps organizations comply with national, regional, and industry-specific requirements governing the collection and use of individuals' data.
- [Transparency](#) – View how Microsoft believes that you control your data in the cloud and how Microsoft helps you know as much as possible about how that data is handled.
- [Products and Services](#) – See all the Microsoft Cloud products and services in one place
- [Service Trust Portal](#) – Obtain copies of independent audit reports of Microsoft cloud services, risk assessments, security best practices, and related materials.
- [What's New](#) – Find out what's new in Microsoft Cloud Trust
- [Resources](#) – Investigate white papers, videos, and case studies on Microsoft Trusted Cloud

The [Microsoft Trust Center](#) has what you need to understand what we do to secure the Microsoft Cloud.

Option A is incorrect since this is used for identity management.

Option C is incorrect since this is used to provide recommendations in Azure.

Option D is incorrect since this is a unified infrastructure security management system in Azure.

For more information on Microsoft Trust Center, please visit the below URL-

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

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Question 23

Unattempted

Domain :Describe core solutions and management tools on Azure

A company has just deployed a set of Azure virtual machines. They want their IT administrative team to get alerts whenever the CPU of the virtual machines goes beyond a certain threshold. Which of the following service could be used for this requirement?

- A. Azure Advisor
- B. Azure Security Center
- C. Azure Monitor 
- D. Azure Active Directory

Explanation:

Answer – C

You can create alerts in Azure Monitor based on the virtual machine metrics.

The Microsoft documentation mentions the following.

What are alerts in Microsoft Azure?

Alerts proactively notify you when important conditions are found in your monitoring data. They allow you to identify and address issues before the users of your system notice them.

This article discusses the unified alert experience in Azure Monitor, which includes alerts that were previously managed by Log Analytics and Application Insights. The [previous alert experience](#) and alert types are called *classic alerts*. You can view this older experience and older alert type by selecting **View classic alerts** at the top of the alert page.

For more information on alerts in Azure Monitor, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-overview>

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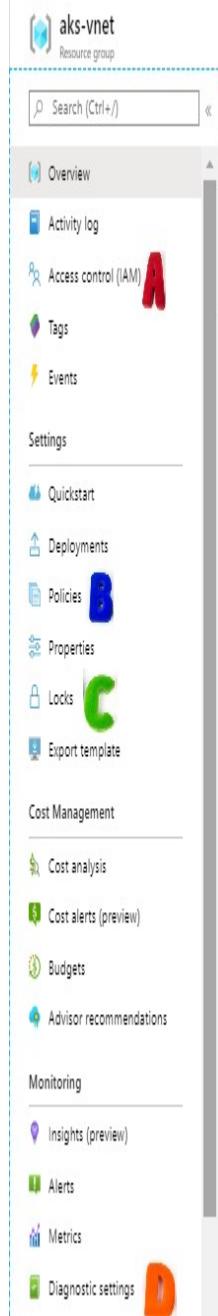
open ▾

Question 24

Unattempted

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

A company has created a resource group, as shown below. They want to ensure that resources within the resource group don't get accidentally deleted.



Which of the following would you use for this purpose?

- A. **Access Control**
- B. **Policies**
- C. **Locks**
- D. **Diagnostics settings**

Explanation:

Answer – C

The Microsoft documentation mentions the following.

Lock resources to prevent unexpected changes

11/08/2018 • 5 minutes to read • Contributors  all

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 set the permission for resources.

Option B is incorrect since this is used for governance purposes.

Option D is incorrect since this is used to enable diagnostics on the underlying resource.

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 25

Unattempted

Domain :Describe core solutions and management tools on Azure

An IT administrator for a company has been given a PowerShell script. This PowerShell script will be used to create several Virtual Machines in Azure. You have to provide a machine to the IT administrator for running the PowerShell script.

You decide to provide a Linux machine which has the Azure CLI tools with PowerShell 5.x installed.

Would this solution fit the requirement?

A. Yes

B. No 

Explanation:

Answer – B

Azure PowerShell works with PowerShell 5.1 on Windows. On other platforms like Linux, Azure PowerShell 6.2.4 and later versions are compatible. Microsoft recommends PowerShell 7.x and higher on all platforms.

Azure PowerShell documentation

Azure PowerShell is a set of cmdlets for managing Azure resources directly from the PowerShell command line. Azure PowerShell is designed to make it easy to learn and get started with but provides powerful features for automation. Written in .NET Standard, Azure PowerShell works with PowerShell 5.1 on Windows by installing some additional module PowerShellGet & .Net framework.

PowerShell 6.2.4 and later is compatible on all OS platforms. However, Microsoft recommends PowerShell 7.x.

<https://docs.microsoft.com/en-us/powershell/azure/install-az-ps?view=azps-5.4.0>

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/run-command>

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Question 26

Unattempted

Domain :Describe core Azure services

A company wants to deploy a set of Azure Windows virtual machines. They want to ensure that the services on the virtual machines are still accessible even if a single data center goes down.

They decide to deploy the set of virtual machines to two or more availability zones. Would this fulfill the requirement?

A. Yes

B. No

Explanation:

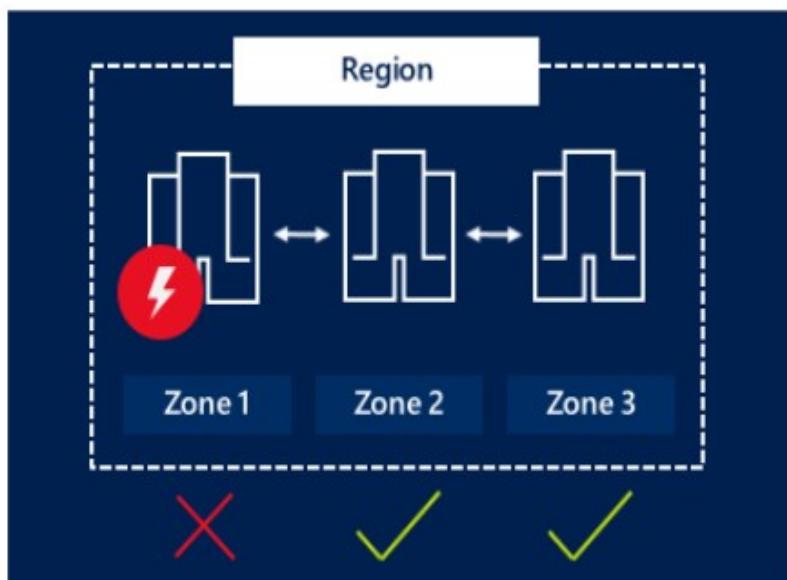
Answer – A

Yes, availability zones can be used in the case of data center-wide failure.

The Microsoft documentation mentions the following.

An Availability Zone in an Azure region is a combination of a **fault domain** and an **update domain**. For example, if you create three or more VMs across three zones in an Azure region, your VMs are effectively distributed across three fault domains and three update domains. The Azure platform recognizes this distribution across update domains to make sure that VMs in different zones are not updated at the same time.

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



For more information on managing the availability of Azure windows virtual machines, please visit the below URL-

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

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Question 27

Unattempted

Domain :Describe core Azure services

Can Regions be used to replicate data asynchronously across other multiple regions for disaster recovery protection?

- A. Yes 
- B. No

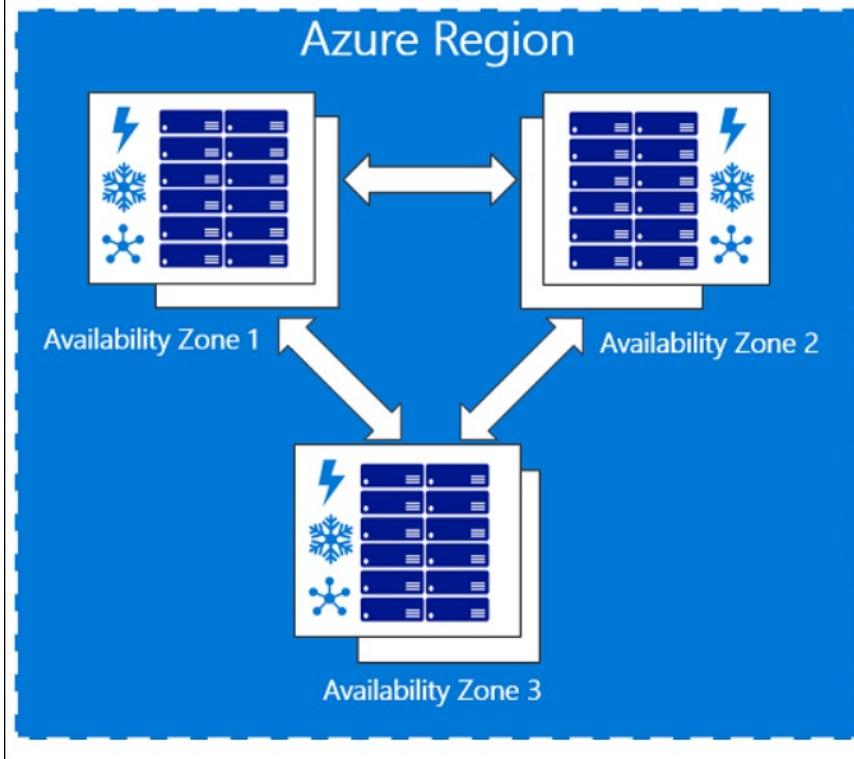
Explanation:

Answer – A

Availability Zones are only specific to a region.

The Microsoft documentation mentions the following.

To achieve comprehensive business continuity on Azure, build your application architecture using the combination of Availability Zones with Azure region pairs. You can synchronously replicate your applications and data using Availability Zones within an Azure region for high-availability and asynchronously replicate across Azure regions for disaster recovery protection.



For more information on availability zones, please visit the below URL-

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

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Question 28

Unattempted

Domain :Describe core Azure services

Your company is planning to use the Azure App Service (PaaS) to host its set of web applications. In case of need as per requirement, does azure help in providing the ability to scale the platform automatically in hosting the web applications?

A. Yes

B. No

Explanation:

Answer – A

Azure Web Apps have a lot of ways to scale their infrastructure based on the demand and load on the web app itself.

The Microsoft documentation shows ways in which you can scale up and scale out.

- **Scale up:** Get more CPU, memory, disk space, and extra features like dedicated virtual machines (VMs), custom domains and certificates, staging slots, autoscaling, and more. You scale up by changing the pricing tier of the App Service plan that your app belongs to.
- **Scale out:** Increase the number of VM instances that run your app. You can scale out to as many as 20 instances, depending on your pricing tier. [App Service Environments](#) in **Isolated** tier further increases your scale-out count to 100 instances. For more information about scaling out, see [Scale instance count manually or automatically](#). There, you find out how to use autoscaling, which is to scale instance count automatically based on predefined rules and schedules.

For more information on web app scaling, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/app-service/web-sites-scale>

<https://docs.microsoft.com/en-us/azure/app-service/manage-scale-up>

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Question 29

Unattempted

Domain :Describe core Azure services

A company has setup a VPN device on their on-premise that will be used for Site-to-Site connection from an on-premise location to Azure. Which of the following would be used to represent the VPN device in Azure?

	DNS zone	A	Microsoft	Recommended
	App Service Domain		Microsoft	Recommended
	Application Gateway	B	Microsoft	Recommended
	Connection		Microsoft	Recommended
	DDoS protection plan		Microsoft	Recommended
	ExpressRoute		Microsoft	Recommended
	Local network gateway	C	Microsoft	Recommended
	Reserved IP Address		Microsoft	Recommended
	Route filter		Microsoft	Recommended
	Virtual network gateway	D	Microsoft	Recommended

- A. DNS Zone
- B. Application gateway
- C. Local network gateway ✓
- D. Virtual Network gateway

Explanation:

Answer – C

This is clearly given in the Microsoft documentation.

5. Create the local network gateway

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

Since this is clearly given, all other options are incorrect.

For more information on creating a site to site connection, please visit the below URL-

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

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Question 30

Unattempted

Domain :Describe core Azure services

A company is planning to deploy resources to Azure. Which of the following in Azure provides a platform for defining the dependencies between resources so they're deployed in the correct order?

- A. Azure Resource Groups
- B. Azure policies
- C. Azure Management Groups
- D. Azure Resource Manager 

Explanation:

Answer – D

The Microsoft documentation mentions the following.

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.

Option A is incorrect since this provides a means to categorize resources deployed to Azure. It's not a platform.

Option B is incorrect since this allows you to govern Azure resources.

Option C is incorrect since this allows you to efficiently manage access, policies, and compliance for those subscriptions.

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 31

Unattempted

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?

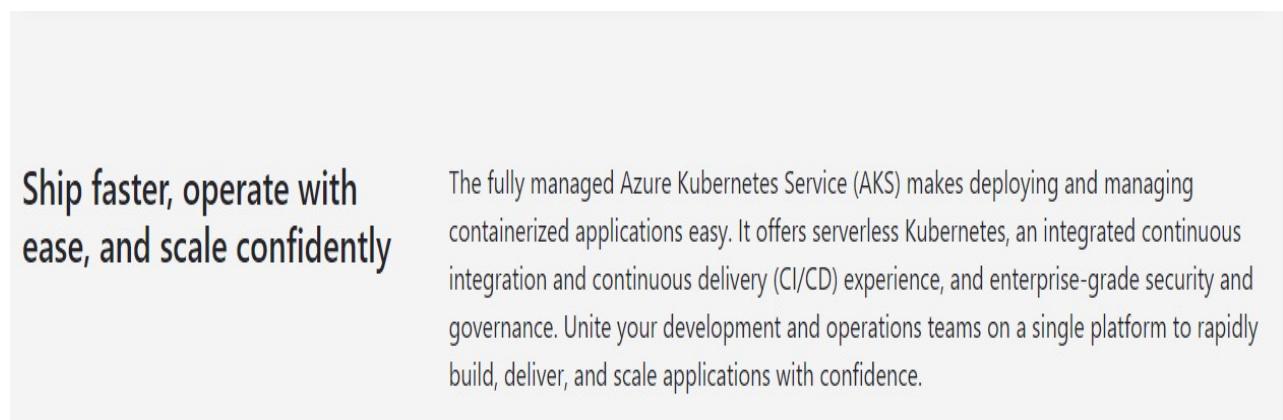
- A. Azure Event Grid
- B. Azure DevOps
- C. Azure Kubernetes 
- D. Azure DevTest Labs

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 32

Unattempted

Domain :Describe core solutions and management tools on Azure

A company is planning to set up a solution in Azure. The solution would have the following key

requirement.

Provides a platform for creating workflows.

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

- A. Azure Databricks
- B. Azure Logic Apps 
- C. Azure App Service
- D. Azure Application Insights

Explanation:

Answer – B

The Microsoft documentation mentions the following.

What is Azure Logic Apps?

06/29/2018 • 8 minutes to read • Contributors 

[Azure Logic Apps](#) is a cloud service that helps you automate and orchestrate tasks, business processes, and [workflows](#) when you need to integrate apps, data, systems, and services across enterprises or organizations. Logic Apps simplifies how you design and build scalable solutions for app [integration](#), data integration, system integration, enterprise application integration (EAI), and business-to-business (B2B) communication, whether in the cloud, on premises, or both.

Since this is a clear feature of the tool, all other options are incorrect.

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

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

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Question 33

Unattempted

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 the ability to store petabytes of data.

Be able to run complex queries across the data.

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

- A. Azure Firewall
- B. Azure Application Gateway
- C. Azure Storage Accounts
- D. Azure Synapse 

Explanation:

Answer – D

This can now be achieved with the help of the Azure Synapse service.

The Microsoft documentation mentions the following.

What is Azure Synapse Analytics (formerly SQL DW)?

11/04/2019 • 2 minutes to read •  +12

Azure Synapse is a **limitless analytics** service that **brings together** enterprise data warehousing and Big Data analytics. It gives you the freedom to query data on your terms, using either serverless on-demand or provisioned resources—at scale. Azure Synapse brings these two worlds together **with a unified experience** to ingest, prepare, manage, and serve data for immediate BI and machine learning needs.

Azure Synapse has four components:

- SQL Analytics: Complete T-SQL based analytics – Generally Available
 - SQL pool (pay per DWU provisioned)
 - SQL on-demand (pay per TB processed) – (Preview)
- Spark: Deeply integrated Apache Spark (Preview)
- Data Integration: Hybrid data integration (Preview)
- Studio: Unified user experience. (Preview)

For more information on the Azure Synapse service, please visit the following URL-

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

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Question 34

Unattempted

Domain :Describe core Azure services

A company is planning to set up a solution in Azure. The solution would have the following key requirement.

Provide an efficient way to distribute web content to users across the world.

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

- A. Azure Content Delivery Network 
- B. Azure SQL Datawarehouse
- C. Azure Load Balancer
- D. Azure HD Insight

Explanation:

Answer – A

The Microsoft documentation mentions the following.

What is a content delivery network on Azure?

05/09/2018 • 3 minutes to read • Contributors  all

A content delivery network (CDN) is a distributed network of servers that can efficiently deliver web content to users. CDNs store cached content on edge servers in point-of-presence (POP) locations that are close to end users, to minimize latency.

Azure Content Delivery Network (CDN) offers developers a global solution for rapidly delivering high-bandwidth content to users by caching their content at strategically placed physical nodes across the world. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network optimizations using CDN POPs. For example, route optimization to bypass Border Gateway Protocol (BGP).

The benefits of using Azure CDN to deliver web site assets include:

- Better performance and improved user experience for end users, especially when using applications in which multiple round-trips are required to load content.
- Large scaling to better handle instantaneous high loads, such as the start of a product launch event.
- Distribution of user requests and serving of content directly from edge servers so that less traffic is sent to the origin server.

Since this is a clear feature of the tool, all other options are incorrect.

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

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

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Question 35

Unattempted

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

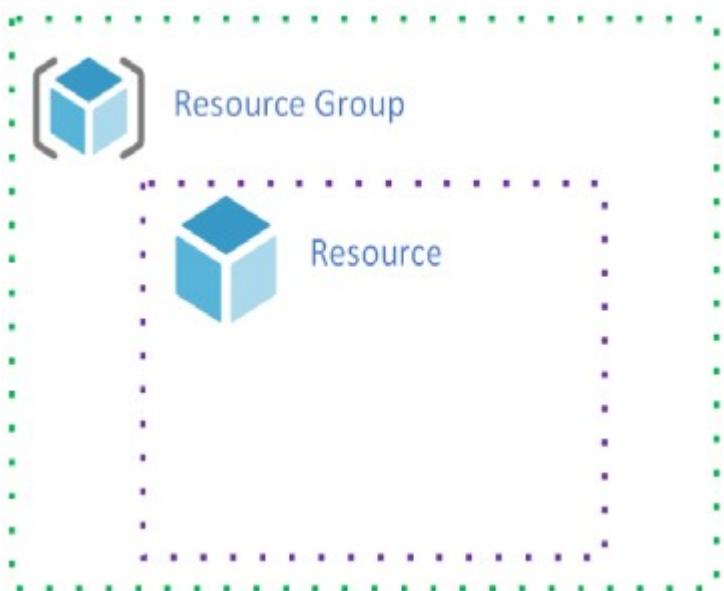
This can be done with the help of resources groups.

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 36

Unattempted

Domain :Describe core solutions and management tools on Azure

A company is planning to set up a solution in Azure. The solution would have the following key requirement.

Provide a cloud service that makes it easy, fast, and cost-effective to analyze streaming data using open source frameworks like Apache Hadoop.

Which of the following Azure services would meet the criteria?

- A. Azure Content Delivery Network
- B. Azure SQL Datawarehouse
- C. Azure Load Balancer
- D. Azure HDInsight 

Explanation:

Answer – D

The Microsoft documentation mentions the following.

Azure HDInsight Documentation

Learn how to use Azure HDInsight to analyze streaming or historical data. Tutorials and other documentation show you how to create clusters, process and analyze big data, and develop solutions using the most popular open-source frameworks, like Apache Hadoop, Apache Spark, Apache Hive, Apache LLAP, Apache Kafka, Apache Storm, and Microsoft Machine Learning Server.

Azure HDInsight is a fully managed, full-spectrum, open-source analytics service for enterprises. HDInsight is a cloud service that makes it easy, fast, and cost-effective to process massive amounts of data. HDInsight also supports a broad range of scenarios, like extract, transform, and load (ETL); data warehousing; machine learning; and IoT.

Since this is a clear feature of the tool, all other options are incorrect.

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

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

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Question 37

Unattempted

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

[https://whizlabstore2020.blob.core.windows.net/...](https://whizlabstore2020.blob.core.windows.net/)

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

[https://whizlabstore2020.blob.core.windows.net/...](https://whizlabstore2020.blob.core.windows.net/)

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 38

Unattempted

Domain :Describe core solutions and management tools on Azure

A company has a set of IT engineers responsible for implementing and managing the resources in their Azure account. The IT engineers have a set of CLI installed on-premise workstations that have the following flavors of operating systems:

Windows 10

MacOS

Ubuntu (Powershell Core installed)

Which of the following tools can you use on the Ubuntu machines?

- A. The Azure CLI and Azure Portal only
- B. The Azure CLI and Powershell only
- C. The Azure Portal and Powershell only
- D. The Azure CLI, Azure Powershell, and Azure Portal 

Explanation:

Answer – D

The Azure portal can be viewed on any browser and hence can be viewed on almost all operating systems.

The Azure CLI is available on all platforms as shown below in the Microsoft documentation.

Install the Azure CLI

11/16/2018 • 2 minutes to read • Contributors  all

The Azure CLI is a command-line tool providing a great experience for managing Azure resources. The CLI is designed to make scripting easy, query data, support long-running operations, and more. Try it today and find out what the CLI has to offer!

The current version of the CLI is [2.0.57](#). For information about the latest release, see the [release notes](#).

- [Install on Windows](#)
- [Install on macOS](#)
- [Install on Linux or Windows Subsystem for Linux \(WSL\)](#)
 - [Install with apt on Debian or Ubuntu](#)
 - [Install with yum on RHEL, Fedora, or CentOS](#)
 - [Install with zypper on openSUSE or SLE](#)
 - [Install from script](#)
- [Run in Docker container](#)

Azure Powershell is available on all platforms as shown below in the Microsoft documentation.

Install the Azure PowerShell module

12/13/2018 • 3 minutes to read • Contributors 

This article tells you how to install the Azure PowerShell modules using PowerShellGet. These instructions work on Windows, macOS, and Linux platforms. For the Az module, currently no other installation methods are supported.

For more information on Azure CLI and Azure Powershell, please visit the below URL-

<https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest>

<https://docs.microsoft.com/en-us/powershell/azure/install-az-ps?view=azps-1.2.0>

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Question 39**Unattempted****Domain :Describe core solutions and management tools on Azure**

A company is planning to set up a solution in Azure. They have the following key requirement.
Give the ability to process data from millions of sensors.

Which of the below Azure services can be used for this purpose?

- A. Azure Machine Learning
- B. Azure IoT Hub 
- C. Azure AI Bot
- D. Azure Functions

Explanation:

Answer – B

The Microsoft documentation mentions the following.

What is Azure IoT Hub?

07/04/2018 • 3 minutes to read • Contributors 

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

Since this is a clear feature of the tool, all other options are incorrect.

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

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

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Question 40

Unattempted

Domain :Describe cloud concepts

A company wants to migrate its current on-premises servers to Azure. They want to ensure that the servers are running even if a single Azure Data Center goes down. Which of the following terms refers to the solution that needs to be in place to fulfill this requirement?

- A. Fault tolerance 
- B. Elasticity
- C. Scalability
- D. Low Latency

Explanation:

Answer – A

This concept of Fault tolerance refers to achieving high availability on the cloud.

Achieve High Availability faster in the cloud

As soon as you sign up, access the tools, the infrastructure, and the guidance you need to deploy your applications in the cloud. Support your most demanding mission-critical applications to build always-available sites cost-effectively. And take advantage of an SLA of up to 99.99 percent for your virtual machines.



High-availability solutions

[Availability Zones >](#)

[Availability sets >](#)

[Virtual Machine Scale Sets \(VMSS\) >](#)

Options B and C are incorrect since this refers to how best you can scale up or down based on demand.

Option D is incorrect since this refers to data transfer.

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

<https://azure.microsoft.com/en-us/features/resiliency/>

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Question 41

Unattempted

Domain :Describe cloud concepts

An application consists of a set of virtual machines hosted in a Virtual Network. In a month, the application seems to have a load of around 20% for 3 weeks. During the last week, the load on the application reaches 80%. Which of the following benefits of Azure Cloud would ensure the cost and efficiency of the underlying application infrastructure?

A. **High availability**

B. **Elasticity**

C. Disaster recovery

D. Fault tolerance

Explanation:

Answer – B

Here the concept refers to Elasticity.

In this use case, you could define a Virtual Machine Scale set in Azure.

You could define an initial set of Virtual Machines as part of the scale set that would run for the first 3 weeks.

You can then add a scaling policy to add more Virtual Machines to support the application during the last week.

You can then add a scaling policy to remove the extra Virtual Machines at the end of last week to save on costs.

All other options are incorrect since they all refer to the availability of the infrastructure.

For more information on Virtual Machine scale sets, please visit the below URL-

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

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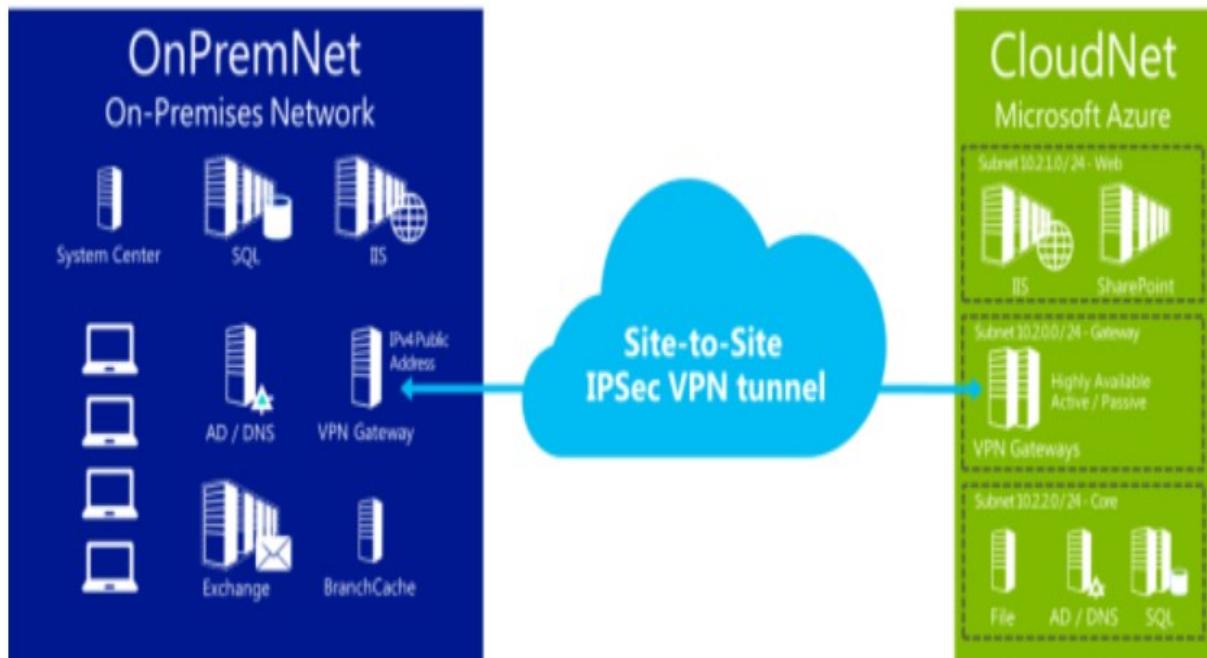
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Question 42

Unattempted

Domain :Describe cloud concepts

A company is planning to implement the below architecture (between "on-premises" and Azure Cloud Infrastructure).



IP Address Space: 10.1.0.0/16

IP Address Space: 10.2.0.0/16

Which of the following best describes the above cloud model?

- A. Private Cloud
- B. Public Cloud
- C. Government Cloud
- D. Hybrid Cloud

Explanation:

Answer – D

This is an example of having infrastructure hosted in both the Azure public cloud and in your on-premise network.

Option A is incorrect since the picture shows that "on-premises" network (left side of the image) is establishing a connection to the Azure virtual network (right side of the image).

Option B is incorrect since there is an on-premise server on the left-hand side.

Option C is incorrect since there is no specification of a pure government cloud setup.

For more information on some use cases for hybrid cloud scenarios is shown below, please visit the below URL-

<https://docs.microsoft.com/en-us/office365/enterprise/hybrid-cloud-scenarios-for-azure-iaas>

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Question 43

Unattempted

Domain :Describe cloud concepts

You have to identify the correct concept behind each of the following cloud service descriptions. Which of the following is the right concept behind the following description?
"A cloud service that can be accessed quickly by users over the Internet."

- A. Fault Tolerance
- B. Disaster Recovery
- C. Dynamic Scalability
- D. Low Latency 

Explanation:

Answer – D

This is an example of low latency.

Following is a snippet from a Microsoft blog article.

Latency is the new currency of the Cloud: Announcing 31 new Azure edge sites

Posted on August 27, 2019



Yousef Khalidi, Corporate Vice President, Azure Networking

Providing users fast and reliable access to their cloud services, apps, and content is pivotal to a business' success.

The latency when accessing cloud-based services can be the inhibitor to cloud adoption or migration. In most cases, this is caused by commercial internet connections that aren't tailored to today's global cloud needs. Through deployment and operation of globally and strategically placed edge sites, Microsoft dramatically accelerates the performance and experience when you are accessing apps, content, or services such as Azure and Office 365 on the Microsoft global network.

Option A is incorrect since this is used to ensure that a service is running even in the event of a service failure.

Option B is incorrect since this is used to ensure that a service is running even in the event of a catastrophic loss.

Option C is incorrect since this is used to ensure that a service is scalable even when the load on the service increases.

For more information on the article, please visit the below URL-

<https://azure.microsoft.com/en-us/blog/latency-is-the-new-currency-of-the-cloud-announcing-31-new-azure-edge-sites/>

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Question 44**Unattempted**

Domain :Describe cloud concepts

When can an organization decommission its private cloud infrastructure hosted in its data center?

- A. When they have a hybrid solution
- B. When all of their servers are in the private cloud
- C. When all of their servers are in the public cloud 
- D. When all of their servers are in the public or private cloud

Explanation:

Answer – C

It can do when all the servers are migrated to the Azure cloud, which is a public cloud, and you have no dependency left on your private cloud (or on-premise environment). Then you can completely look to decommission it.

For more information, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/migrate/migration-considerations/optimize/decommission>

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Question 45**Unattempted**

Domain :Describe cloud concepts

You have to match the Azure Cloud Service benefit to the right description. Which of the following is the right Azure Cloud Service benefit that matches the following description?
“A cloud service that can be restored in the event of a catastrophic loss.”

- A. Fault Tolerance
- B. Disaster Recovery 
- C. Dynamic Scalability

D. Low Latency

Explanation:

Answer - B

This term refers to disaster recovery.

Below is a snippet from the Microsoft documentation on the terminology.

Failure and disaster recovery for Azure applications

04/10/2019 • 13 minutes to read • 

Disaster recovery is the process of restoring application functionality in the wake of a catastrophic loss.

Your tolerance for reduced functionality during a disaster is a business decision that varies from one application to the next. It might be acceptable for some applications to be completely unavailable or to be partially available with reduced functionality or delayed processing for a period of time. For other applications, any reduced functionality is unacceptable.

Option A is incorrect since this is used to ensure that a service is running even in the event of a service failure.

Option C is incorrect since this is used to ensure that a service is scalable even when the load on the service increases.

Option D is incorrect since this is used to ensure that a service is quickly accessible to users over the Internet.

For more information on failure and disaster recovery, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/architecture/reliability/disaster-recovery>

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[View Queries](#)[open ▾](#)**Question 46****Unattempted****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 47

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company is planning to purchase Azure AD tier Premium P2 for their Azure account. Does the Azure AD Premium P2 tier come with an SLA of 99.9%?

A. Yes 

B. No

Explanation:

Answer – A

Yes, this is also mentioned in the Microsoft documentation.

SLA for Azure Active Directory

Last updated: June 2015

We guarantee at least 99.9% availability of the Azure Active Directory Basic and Premium services. The services are considered available in the following scenarios:

- Users are able to login to the service, login to the Access Panel, access applications on the Access Panel and reset passwords.
- IT administrators are able to create, read, write and delete entries in the directory or provision or de-provision users to applications in the directory.

No SLA is provided for the Free tier of Azure Active Directory.

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

https://azure.microsoft.com/en-us/support/legal/sla/active-directory/v1_0/

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

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Question 48**Unattempted**

Domain :Describe cloud concepts

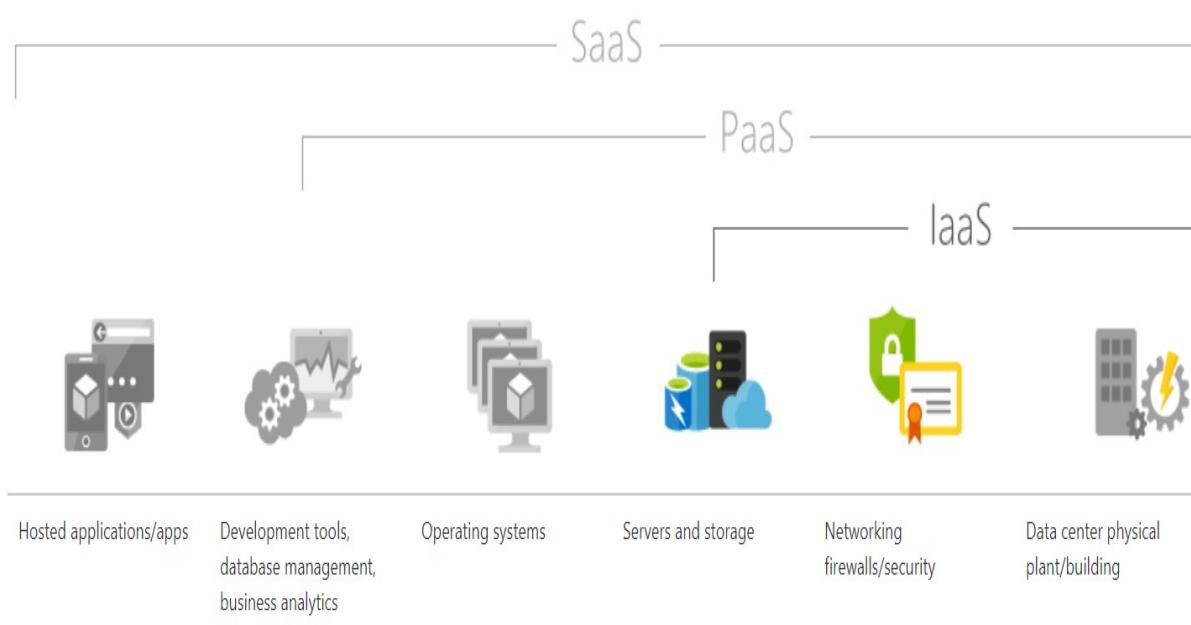
A company is planning to create several Virtual Machines in Azure. Which of the following is the right category to which the Azure Virtual Machine belongs?

- A. Infrastructure as a service (IaaS) 
- B. Platform as a service (PaaS)
- C. Software as a service (SaaS)
- D. Function as a service (FaaS)

Explanation:

Answer – A

The Microsoft documentation gives an example of the difference between IaaS, PaaS and SaaS, as shown below.



IaaS constitutes the Infrastructure which constitutes your Azure Virtual Machines.

Since this is clearly shown, all other options are incorrect.

For more information on what is IaaS, please visit the below URL-

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

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Question 49

Unattempted

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

A company wants to use Azure for the deployment of various solutions. They want to ensure that whenever users authenticate to Azure, they have to make use of Multi-Factor Authentication. Which of the following can help them achieve this?

- A. Azure Service Trust Portal
- B. Azure Security Centre
- C. Azure DDoS protection
- D. Azure Privileged Identity Management 

Explanation:

Answer – D

With Azure Privileged Identity Management, you can use Multi-factor authentication (MFA) to activate any role for users. The Microsoft documentation mentions the following.

What does it do?

Privileged Identity Management provides time-based and approval-based role activation to mitigate the risks of excessive, unnecessary, or misused access permissions on resources that you care about. Here are some of the key features of Privileged Identity Management:

- Provide **just-in-time** privileged access to Azure AD and Azure resources
- Assign **time-bound** access to resources using start and end dates
- Require **approval** to activate privileged roles
- Enforce **multi-factor authentication** to activate any role
- Use **justification** to understand why users activate
- Get **notifications** when privileged roles are activated
- Conduct **access reviews** to ensure users still need roles
- Download **audit history** for internal or external audit

Option A is incorrect since Service Trust Portal provides information about Microsoft Cloud services compliance with data protection standards and regulatory requirements, such as International Organization for Standardization (ISO) **Service** Organization Controls (SOC) National Institute of Standards and Technology (NIST).

Option B is incorrect since this is a unified infrastructure security management system in Azure.

Option C is incorrect since this is solely a solution to protect against DDoS attacks.

For more information on how to use MFA policies in Azure Privileged Identity Management, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

For more information on MFA and its configuration, please visit below URL-

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

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Question 50

Unattempted

Domain :Describe Azure cost management and Service Level Agreements

A company is planning to host 2 Virtual Machines in Azure, as shown below.

Virtual Machine Name	Virtual Machine Size
demovm	B1S
demovm1	B1S

When the virtual machine demovm is stopped, you will still incur costs for the storage attached to the virtual machine. Is this the correct understanding?

A. Yes

B. No

Explanation:

Answer – A

The Disks attached to a Virtual Machine have different costs associated with them.

Below is a screenshot from the pricing calculator for a Virtual Machine. You can see that there is a dependency on the OS Disk.

The screenshot shows the Azure Pricing Calculator interface. At the top, it says "Managed OS Disks". Under "TIER:", "Standard HDD" is selected. Under "DISK SIZE:", "S4: 32 GiB, \$1.536/month" is chosen, with an "ADD SNAPSHOT" button next to it. Below this, a summary shows "1 Disks" at "\$1.54 Per month" resulting in a total of "\$1.54". In the "Storage transactions" section, "100000 Transaction units (10,000 transactions)" are listed at "\$0.0005 Per unit", totaling "\$50.00".

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 51

Unattempted

Domain :Describe core solutions and management tools on Azure

A company is planning to set up a solution in Azure. The solution would have the following key requirement.

An Integration solution for the deployment of code

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

- A. Azure Advisor
- B. Azure Cognitive Services
- C. Azure Application Insights
- D. Azure DevOps 

Explanation:

Answer – D

Azure DevOps consists of a large set of tools. Amongst these, you have Azure Pipelines which can be used to build, test and deploy code.

The screenshot shows the Azure DevOps interface for a project named 'FirstDevOpsProject'. The left sidebar has a yellow box around the 'Pipelines' item. The main area shows a list of pipelines:

- git#20200619.1 • Set up CI with Azure Pipelines (No runs yet)

There is also a 'New pipeline' button and a 'New folder' button.

Since this is a clear feature of the tool, all other options are incorrect.

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

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

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Question 52**Unattempted****Domain :Describe core solutions and management tools on Azure**

An IT Engineer needs to create a Virtual Machine in Azure. Currently, the IT Engineer has a Windows desktop along with the Azure Command Line Interface (CLI). Which of the following would allow the IT engineer to use the Azure Command Line Interface? Choose 2 answers from the options given below.

- A. **Powershell** 
- B. **File and Print Explorer**
- C. **Command Prompt** 
- D. **Control Panel**

Explanation:

Answer – A and C

You can launch the Azure command-line tool from the command prompt as shown below.

```
Command Prompt - az login
C:\Users\developer\AppData\Roaming\Python\Python36\Scripts>az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code D887VZAN5 to authenticate.
```

Or you could also launch it from PowerShell as shown below.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\developer> az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code DF4FUNACB to authenticate.
```

Options B and D are incorrect because you can't launch Azure Command-Line from any of these options.

For more information on Azure Command Line Interface, please visit the below URL-

<https://docs.microsoft.com/en-us/cli/azure/get-started-with-azure-cli?view=azure-cli-latest>

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Question 53**Unattempted****Domain :Describe core solutions and management tools on Azure**

A company is planning to use Azure Storage Accounts. They have the following requirement.

Storage of 2 TB of data

Storage of a million files

Would using Azure Storage fulfil these requirements?

A. Yes 

B. No

Explanation:

Answer – A

If you look at the Microsoft documentation, Azure storage has a high limit of the amount that can be stored and no limit on the number of files. The Max storage capacity is 500TB, while there is no limit for the maximum number of BLOBS, TABLEs, QUEUEs, or MESSAGEs per storage account.

SCALE TARGETS FOR STANDARD STORAGE ACCOUNTS

Resource	Limit
Number of storage accounts per region per subscription, including standard, and premium storage accounts.	250
Maximum storage account capacity	5 PiB 1
Maximum number of blob containers, blobs, file shares, tables, queues, entities, or messages per storage account	No limit
Maximum request rate1 per storage account	20,000 requests per second
Maximum ingress1 per storage account (US, Europe regions)	10 Gbps
Maximum ingress1 per storage account (regions other than US and Europe)	5 Gbps if RA-GRS/GRS is enabled, 10 Gbps for LRS/ZRS2
Maximum egress for general-purpose v2 and Blob storage accounts (all regions)	50 Gbps

Resource	Limit
Maximum egress for general-purpose v1 storage accounts (US regions)	20 Gbps if RA-GRS/GRS is enabled, 30 Gbps for LRS/ZRS2
Maximum egress for general-purpose v1 storage accounts (non-US regions)	10 Gbps if RA-GRS/GRS is enabled, 15 Gbps for LRS/ZRS2
Maximum number of virtual network rules per storage account	200

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

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

<https://docs.microsoft.com/en-us/azure/storage/common/storage-scalability-targets>

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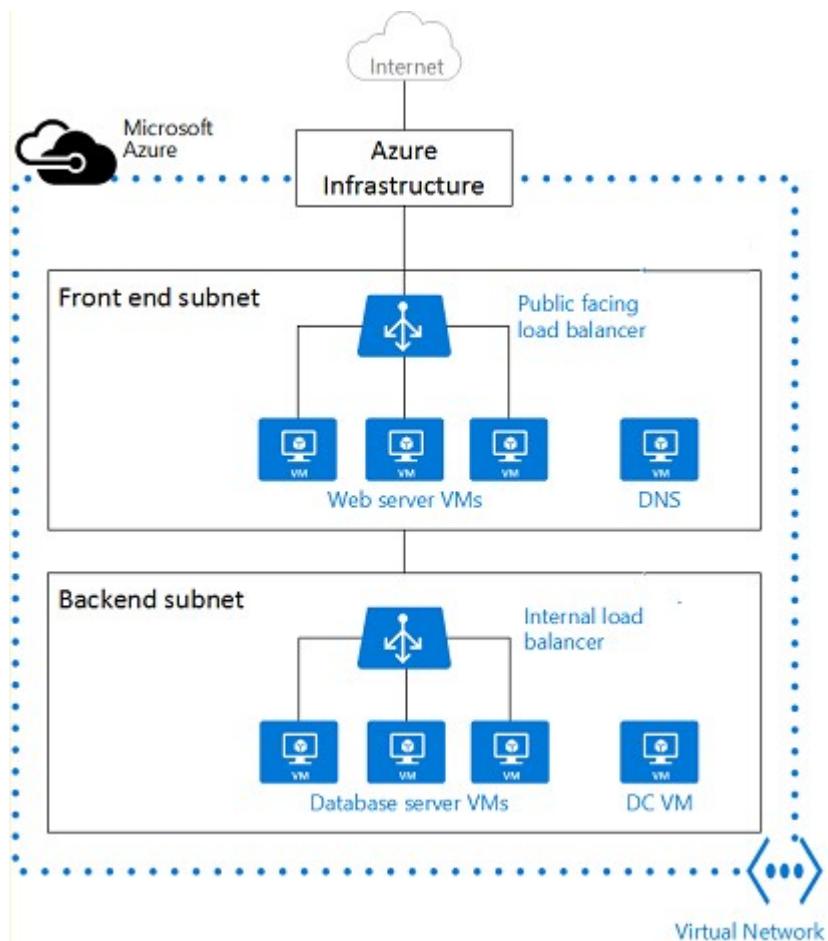
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Question 54

Unattempted

Domain :Describe general security and network security features

A company is planning to deploy a web server and database server, as shown in the architecture diagram below. You have to ensure that traffic restrictions are in place so that the database server can only communicate with the web server.



Which of the following would you recommend for implementing these restrictions?

- A. Network Security Groups (NSGs)
- B. Azure Service Bus
- C. A Local Network Gateway
- D. A Virtual Private Gateway

Explanation:

Answer – A

You should use network security groups to allow or deny traffic within subnets.

Below is what the Microsoft documentation mentions in terms of filtering of network traffic.

Traffic filtering

- You can filter network traffic between resources in a virtual network using a network security group, an NVA that filters network traffic, or both. To deploy an NVA, such as a firewall, to filter network traffic, see the [Azure Marketplace](#). When using an NVA, you also create custom routes to route traffic from subnets to the NVA. Learn more about [traffic routing](#).
- A network security group contains several default security rules that allow or deny traffic to or from resources. A network security group can be associated to a network interface, the subnet the network interface is in, or both. To simplify management of security rules, it's recommended that you associate a network security group to individual subnets, rather than individual network interfaces within the subnet, whenever possible.
- If different VMs within a subnet need different security rules applied to them, you can associate the network interface in the VM to one or more application security groups. A security rule can specify an application security group in its source, destination, or both. That rule then only applies to the network interfaces that are members of the application security group. Learn more about [network security groups](#) and [application security groups](#).
- Azure creates several default security rules within each network security group. One default rule allows all traffic to flow between all resources in a virtual network. To override this behavior, use network security groups, custom routing to route traffic to an NVA, or both. It's recommended that you familiarize yourself with all of Azure's [default security rules](#) and understand how network security group rules are applied to a resource.

Option B is incorrect since this is used as a messaging system.

Option C is incorrect since this is used to represent a VPN device in a Site-to-Site VPN connection.

Option D is incorrect since this is normally used to connect networks together via the Internet.

Remember, Network Security Group (NSG) and Application Security Group (ASG) are two different things. Please visit the below URL to know about ASG-

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

For more information on network planning and design, please visit the below URL-

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

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View Queries**open ▾****Question 55****Correct****Domain :Describe Azure cost management and Service Level Agreements**

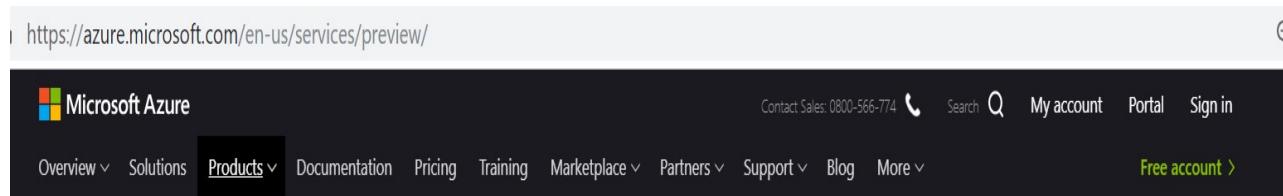
A company wants to make use of an Azure service in public preview. Are Azure services in public preview available only to a selective portion of customers?

- A. Yes
- ✓ B. No 

Explanation:

Answer – B

Services in public preview are only available upon request to all customers. An example is given below. If you go to the services available in the beta phase and click on "Try it"



The screenshot shows the Microsoft Azure homepage with the URL <https://azure.microsoft.com/en-us/services/preview/> in the address bar. The top navigation bar includes the Microsoft Azure logo, Contact Sales: 0800-566-774, Search, My account, Portal, and Sign in. Below the logo, there is a navigation menu with Overview, Solutions, Products (selected), Documentation, Pricing, Training, Marketplace, Partners, Support, Blog, and More. A green 'Free account >' button is also visible.

**Increased Azure Managed Disks Storage Capacities**

New Azure Managed Disks SKUs with greater storage capacity and increased performance are now in Preview. We are increasing the sizes and throughput associated with our Azure Managed Disks offerings. All existing Azure Managed Disk offerings (Premium SSD, Standard SSD and Standard HDD) will now feature 8, 16 and 32 TiB disk sizes. Premium SSD performance will now reach up to 20,000 IOPS and 750MBps. Standard SSD and Standard HDD performance will now reach up to 2,000 IOPS and 500MBps. These capabilities will allow you to significantly expand storage capacity while simplifying management and achieving better performance.

[Learn more >](#)

Try it >**Azure Ultra SSD**

For your most demanding data-intensive workloads, Ultra SSDs – an Azure Managed Disks solution - offer unprecedented and extremely scalable performance with sub-millisecond latency. Choose a disk size from 4GiB up to 64 TiB, achieve the optimal performance you need per disk even at low storage capacities. Ultra SSDs are capable of achieving 160,000 IOPS on a single disk.

[Learn more >](#)

Try it >

You will be directed to complete a form to avail of the preview of the service.

Ultra SSD Disks - Preview

Thank you for your interest in participating in the Ultra SSD Disks limited Public Preview.

Overview:

Ultra SSD is a new Azure Managed Disk offering for your most latency-sensitive and high IOPS workloads. Ultra SSDs deliver unprecedented and extremely scalable performance with sub-millisecond latency.

- Choose a disk size from 4GiB up to 64TiB
- Achieve the optimal performance you need per disk even at low storage capacities
- Scale performance beyond 80000 IOPS and throughput up to 2 GB/s per disk without restarting your virtual machines using our flexible and innovative architecture

Ultra SSDs are currently available in our East US 2 Region.

To leverage the full capabilities of Ultra SSDs, we are also introducing a new VM Size as part of this preview that will allow you to reach up to 160K storage IOPS.

Please complete the signup survey questions below. We will review all responses and will reach out to you if we have any additional questions.

* Required

1. Your full name *

Enter your answer

For more information on services in the beta test phase, please visit the below URL-

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

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PM Certification	Discussions		Follow us
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	Business		

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