DUMPSARENA

Microsoft Azure Fundamentals

Microsoft AZ-900

Version Demo

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Topic Break Down

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QUESTION NO: 1

Case Study: This question belongs to a series of questions that share the same context but have different outcomes. Each question should be evaluated independently based on its specific criteria.

You are responsible for deploying a critical line-of-business (LOB) application on a virtual machine within Azure.

The deployment strategy must ensure a guaranteed availability of at least 99.99%. It is crucial to minimize the number of virtual machines and availability zones involved in this solution.

Solution Proposed: Your deployment strategy involves utilizing two virtual machines distributed across two different availability zones.

Question: Does this proposed solution effectively meet the specified goal for availability?

A. Yes

B. No

ANSWER: A

Explanation:

Using two virtual machines across separate availability zones aligns with the best practices for high availability in Azure. Deploying in two zones helps ensure that your application remains available even if one zone fails. Azure guarantees a 99.99% uptime when applications are spread across multiple availability zones. More information can be found in the official documentation here: https://docs.microsoft.com/en-us/azure/availability-zones/az-overview.

QUESTION NO: 2

A company is planning on deploying a stateless based application based on microservices using the Azure Service Fabric service. You need to design the infrastructure that would be required in the Azure Service Fabric service.

Which of the following should you consider? (Choose two)

A. The network connectivity

B. The number of node types in the cluster

C. The properties for each node type

D. The service tier

ANSWER: B C

Explanation:

When designing an infrastructure for Azure Service Fabric, especially for stateless applications utilizing microservices, it's crucial to consider the number of node types and their properties in the cluster. The node types define the layout of your cluster, scaling, durability, and available resources. Refer to the following official documentation for more details.

QUESTION NO: 3

You currently have 1,000 virtual machines hosted on Hyper-V servers in a data center. You are planning to migrate all these virtual machines to an Azure pay-as-you-go subscription.

To determine which expenditure model should be utilized for the upcoming Azure solution, which model should you select?

A. operational

B. elastic

C. capital

D. scalable

ANSWER: A

Explanation:

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

Reference:

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

QUESTION NO: 4

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

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

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

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

NOTE: Each correct selection is worth one point.

A. a load balancer

B. a virtual network

C. an application gateway

D. a gateway subnet

E. a virtual network gateway

ANSWER: B E

Explanation:

To enable communication between on-premises networks and Azure virtual machines, it is essential to establish a virtual network to connect the resources within Azure and use a virtual network gateway to facilitate communication between the on-premises network and the Azure environment. For more information, refer to Azure virtual network gateway documentation.

QUESTION NO: 5

Evaluate the underlined statement to determine its accuracy: "The Azure Standard support plan is the most affordable option for receiving 24/7 access to support engineers via phone."
Instructions: Examine the underlined text. If it is accurate, select "No change is needed". If the text is incorrect, select the answer choice that corrects the statement.

A. No change is needed

B. Developer

C. Basic

D. Professional Direct

ANSWER: D

Explanation:

The Basic support plan is free so is therefore the cheapest. The Developer support plan is the cheapest paid-for support plan. The order of support plans in terms of cost ranging from the cheapest to most expensive is: Basic, Developer, Standard, Professional Direct, Premier.

However, 24/7 access to technical support by email and phone is only available for Standard, Professional Direct, Premier plans.

Reference:

https://azure.microsoft.com/en-gb/support/plans/

QUESTION NO: 6 - (DRAG DROP)

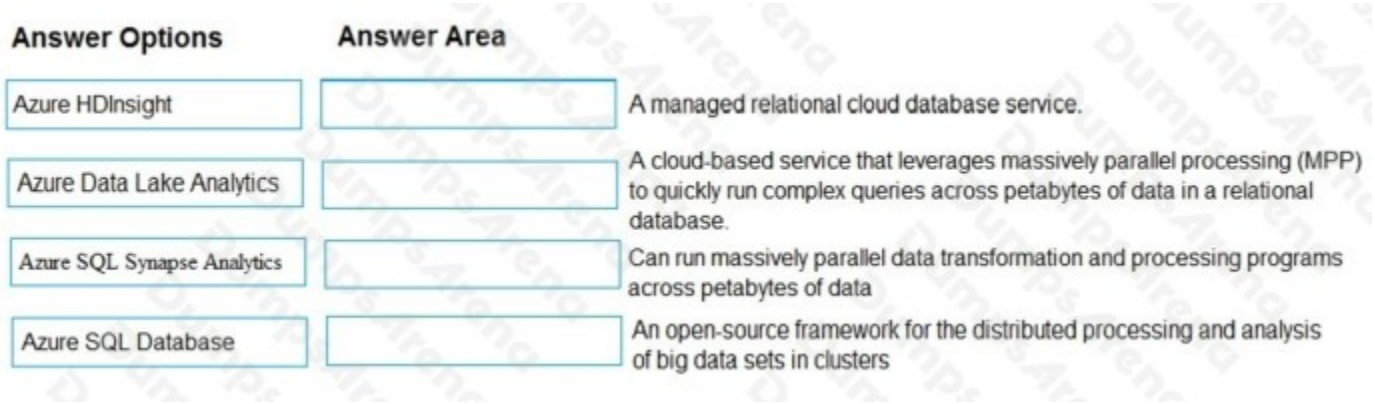
DRAG DROP

Match the Azure service to the correct description.

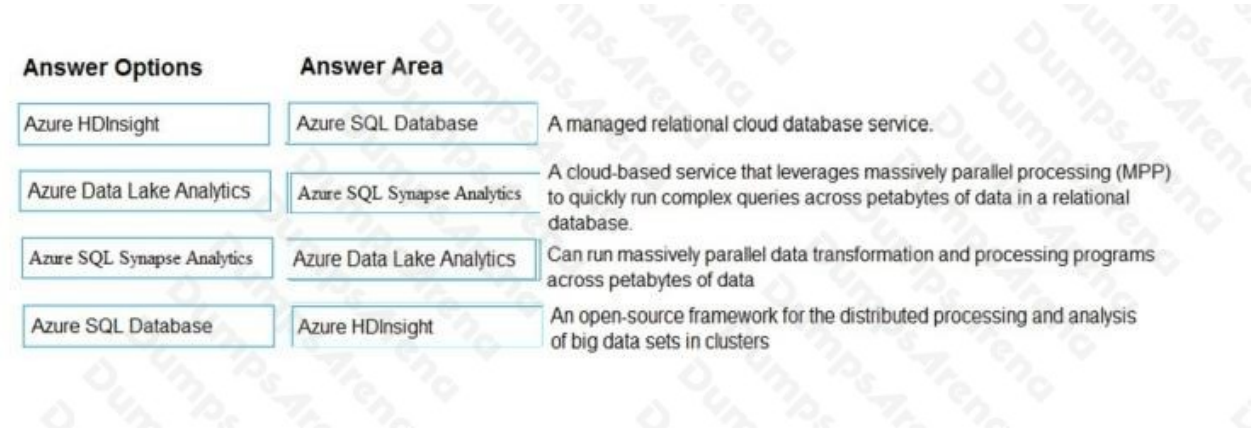
Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



ANSWER:



Explanation:

Box 1: Azure SQL Database

SQL Server is a relational database service. Azure SQL Database is a managed SQL Server Database in Azure. The SQL Server is managed by Microsoft; you just have access to the database.

Box 2: Azure SQL Synapse Analytics

Azure SQL Synapse Analytics (previously called Data Warehouse) is a cloud-based Platform-as-a-Service (PaaS) offering from Microsoft. It is a large-scale, distributed, MPP (massively parallel processing) relational database technology in the same class of competitors as Amazon Redshift or Snowflake. Azure SQL Synapse Analytics is an important component of the Modern Data Warehouse multi-platform architecture. Because Azure SQL Synapse Analytics is an MPP system with a shared-nothing architecture across distributions, it is meant for large-scale analytical workloads which can take advantage of parallelism.

Box 3: Azure Data Lake Analytics

You can process big data jobs in seconds with Azure Data Lake Analytics. You can process petabytes of data for diverse workload categories such as querying, ETL, analytics, machine learning, machine translation, image processing and sentiment analysis by leveraging existing libraries written in .NET languages, R or Python.

Box 4: Azure HDInsight.

Apache Hadoop was the original open-source framework for distributed processing and analysis of big data sets on clusters. The Hadoop ecosystem includes related software and utilities, including Apache Hive, Apache HBase, Spark, Kafka, and many others.

Azure HDInsight is a fully managed, full-spectrum, open-source analytics service in the cloud for enterprises. The Apache Hadoop cluster type in Azure HDInsight allows you to use HDFS, YARN resource management, and a simple MapReduce programming model to process and analyze batch data in parallel.

Reference: https://azure.microsoft.com/en-us/services/sql-database/ https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-what-is https://docs.microsoft.com/bs-latn-ba/azure/hdinsight/hadoop/apache-hadoop-introduction https://www.blue-granite.com/blog/is-azure-sql-data-warehouse-a-good-fit-updated https://azure.microsoft.com/en-gb/services/data-lake-analytics/

QUESTION NO: 7

You have an Azure environment.

You need to create a new Azure virtual machine from a tablet that runs the Android operating system.

What are three possible solutions? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Use Bash in Azure Cloud Shell.

B. Use PowerShell in Azure Cloud Shell.

C. Use the PowerApps portal.

D. Use the Security & Compliance admin center.

E. Use the Azure portal.

ANSWER: A B E

Explanation:

To deploy an Azure virtual machine from an Android tablet, you can utilize a web browser, such as Chrome, to access the Azure portal. Through the Azure portal, you have multiple options to create a virtual machine, including using Bash or PowerShell in Azure Cloud Shell, available directly in the portal. The Azure portal itself is also a feasible solution to create and manage virtual machines. More information on how to create a virtual machine in Azure can be found at https://docs.microsoft.com/en-us/azure/virtual-machines/windows/quick-create-portal.

QUESTION NO: 8 - (HOTSPOT)

HOTSPOT

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

Hot Area:

Answer Area

ANSWER:

Answer Area

Explanation:

The advanced monitoring capabilities in Security Center lets you track and manage compliance and governance over time. The overall compliance provides you with a measure of how much your subscriptions are compliant with policies associated with your workload.

Reference:

https://docs.microsoft.com/en-us/azure/security-center/security-center-intro

QUESTION NO: 9

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named VM1 is accessible from the Internet over HTTP.

What are two possible solutions? Each correct answer presents a complete solution.

A. Modify a DDoS protection plan.

B. Modify an Azure firewall.

C. Modify an Azure Traffic Manager profile.

D. Modify a network security group (NGS)

ANSWER: B D

Explanation:

To allow an Azure virtual machine to be accessible from the Internet over HTTP, you can do the following:
Modify the settings in the Azure Firewall to allow HTTP traffic. Azure Firewall is a managed cloud-based network security service that allows you to centrally manage and log all your traffic flows. For more details about Azure Firewall, refer to the official documentation: https://learn.microsoft.com/en-us/azure/firewall/overview
Modify the network security group (NSG) associated with the virtual machine to allow inbound HTTP traffic. Network security groups contain security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources. For more information, see the official documentation: https://learn.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview

QUESTION NO: 10

You have an Azure environment that consists of 10 virtual networks and a total of 100 virtual machines. You want to restrict the volume of inbound traffic to all the Azure virtual networks. Which solution should you implement?

A. one application security group (ASG)

B. 10 virtual network gateways

C. 10 Azure ExpressRoute circuits

D. one Azure firewall

ANSWER: D

Explanation:

You can restrict traffic to multiple virtual networks with a single Azure firewall.

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.

References:

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

QUESTION NO: 11

Suppose you have an Azure environment already established. You want to create a new Azure virtual machine using a tablet that operates on the Android operating system. Identify the three possible methods available to achieve this task. Each correct method offers a full solution.

NOTE: Each correct choice is worth one point.

A. Use Bash in Azure Cloud Shell.

B. Use PowerShell in Azure Cloud Shell.

C. Use the PowerApps portal.

D. Use the Security & Compliance admin center.

E. Use the Azure portal.

ANSWER: A B E

Explanation:

The Android tablet device will have a web browser (Chrome). That's enough to connect to the Azure portal. The Azure portal offers three ways to create a VM:

- Using the graphical portal.
- Using the Azure Cloud Shell using Bash.
- Using the Azure Cloud Shell using PowerShell.

QUESTION NO: 12

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

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

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

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

NOTE: Each correct selection is worth one point.

A. a virtual network gateway

B. a load balancer

C. an application gateway

D. a virtual network

E. a gateway subnet

ANSWER: A E

Explanation:

To set up a solution that allows client computers on your on-premises network to communicate with Azure virtual machines, you need to establish a VPN (Virtual Private Network) connection. This involves creating a Virtual Network Gateway in the Azure environment, which facilitates secure connection and data transmission between the networks. This gateway must be situated in a dedicated subnet within the Azure virtual network, commonly known as the 'GatewaySubnet.' Learn more about setting up a VPN connection between on-premises networks and Azure virtual networks in the official documentation: Azure VPN Gateway Documentation.

QUESTION NO: 13

Which Azure service offers serverless computing capabilities?

A. Azure Virtual Machines

B. Azure Functions

C. Azure storage account

D. Azure dedicated hosts

ANSWER: B

Explanation:

Azure Functions provides serverless computing in Azure, allowing you to run code on-demand without having to manage the underlying infrastructure. This service is ideal for event-driven applications and can scale automatically, supporting various programming languages. For more information, visit the Azure Functions official page.

QUESTION NO: 14

Which two types of customers qualify to utilize Azure Government for developing a cloud solution? Each correct answer represents a complete solution.

Note: Each correct selection is worth one point.

A. a Canadian government contractor

B. a European government contractor

C. a United States government entity

D. a United States government contractor

E. a European government entity

ANSWER: C D

Explanation:

Azure Government provides a cloud environment specifically designed to meet the compliance and security needs of United States government entities and specific contractors. It ensures data residency and safeguards for controlled unclassified information, providing exclusive benefits for U.S. government agencies and their partners. This sovereign cloud is physically isolated to ensure that U.S. government data and workloads are secured to the highest levels. For more information, you can refer to the official documentation: https://docs.microsoft.com/en-us/learn/modules/intro-to-azure-government/2-what-is-azure-government.

QUESTION NO: 15

A support engineer intends to perform multiple Azure management tasks utilizing the Azure CLI.

After installing the CLI on a computer, you are required to advise the support engineer on which tools can be used to execute the CLI commands.

Which two tools should you recommend to the support engineer? Each correct answer represents a complete solution.

NOTE: Each correct choice is worth one point.

A. Command Prompt

B. Azure Resource Explorer

C. Windows PowerShell

D. Windows Defender Firewall

E. Network and Sharing Center

ANSWER: A C

Explanation:

For Windows, the Azure CLI can be installed using an MSI file, which enables the execution of CLI commands via either the Windows Command Prompt (CMD) or Windows PowerShell.

References:

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

QUESTION NO: 16 - (DRAG DROP)

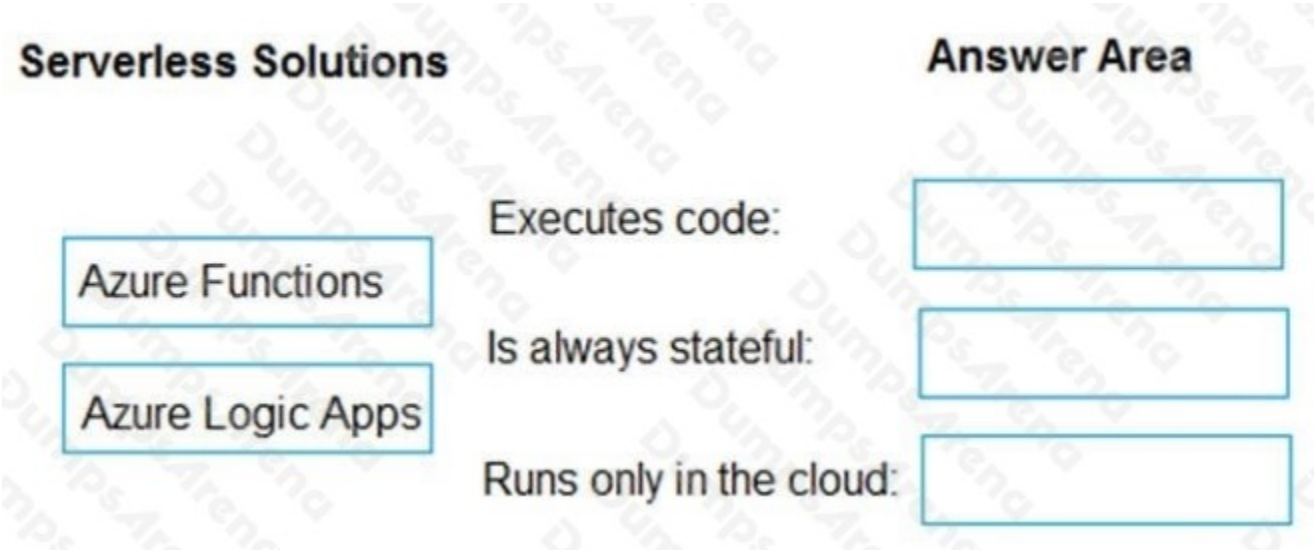
DRAG DROP

Match the serverless solution to the correct characteristic.

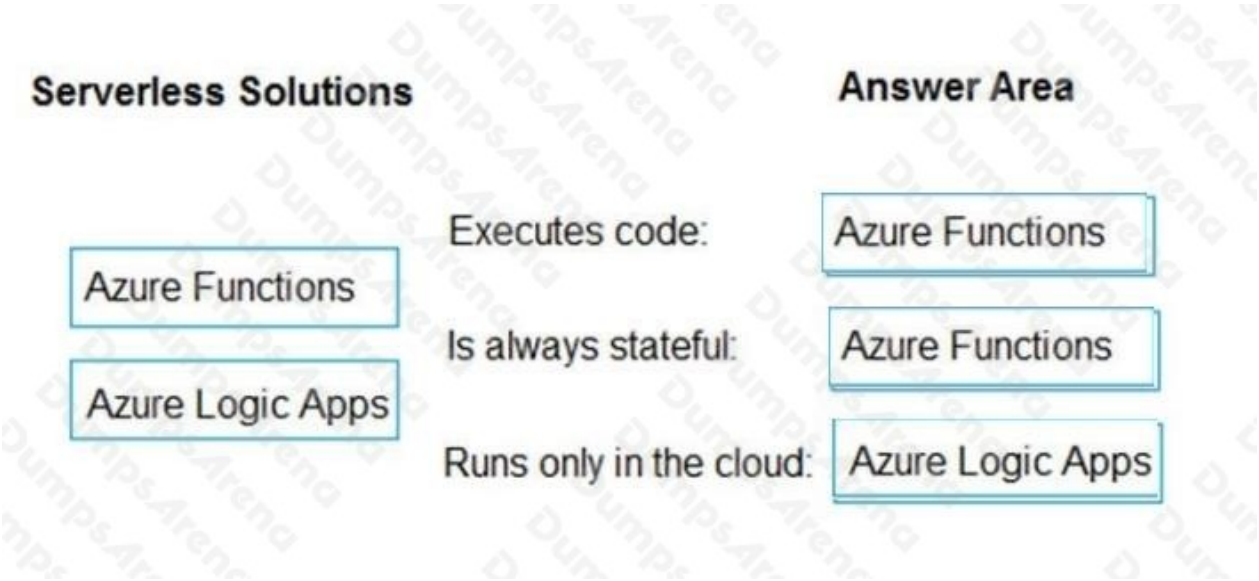
To answer, drag the appropriate serverless solution from the column on the left to its characteristic on the right. Each serverless solution may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



ANSWER:



Explanation:

Box 1: Azure Functions

Azure Functions allows you to implement your system's logic into readily available blocks of code called "functions". Different functions can run anytime you need to respond to critical events.

Box 2: Azure Functions

Azure Logic Apps can have multiple stateful and stateless workflows.

Box 3: Azure Logic Apps

Azure Logic Apps is a cloud-based platform for creating and running automated workflows that integrate your apps, data, services, and systems.

Reference: https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview

QUESTION NO: 17

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have any correct solution.

After you answer a question in this section, you will NOT be able to return to it, so these questions will not appear in the review screen.

Your company plans to migrate all its data and resources to Azure.

The company's migration plan requires the exclusive use of Platform as a Service (PaaS) solutions within Azure.

You need to deploy an Azure environment that aligns with the company's migration plan.

Solution: You create Azure virtual machines, Azure SQL databases, and Azure Storage accounts.

Does this solution meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Platform as a Service (PaaS) provides a comprehensive cloud environment with infrastructure such as servers, storage, and networking, along with middleware, development tools, and database management systems. PaaS supports the full web application lifecycle: building, testing, deploying, managing, and updating applications. However, Azure virtual machines are considered Infrastructure as a Service (IaaS), which offers computing resources over the internet. Hence, using virtual machines does not meet the requirement of solely using PaaS for the migration.https://azure.microsoft.com/en-us/overview/what-is-paas/ https://azure.microsoft.com/en-us/overview/what-is-iaas/

QUESTION NO: 18

Which Azure service should you use to store certificates?

A. Azure Security Center

B. an Azure Storage account

C. Azure Key Vault

D. Azure Information Protection

ANSWER: C

Explanation:

Azure Key Vault is specifically designed as a secure storage solution for sensitive information, including passwords, certificates, and other secret data. It provides secure storage, allows for tight access control, and utilizes industry-standard encryption practices to safeguard the information. Azure Key Vault also offers FIPS 140-2 Level 2 validated hardware security modules (HSMs) for additional security assurance. Access involves proper authentication and authorization to control who can view or modify the stored information.

References:

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

QUESTION NO: 19 - (HOTSPOT)

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

ANSWER:

Answer Area

Statements	Yes	No
An Azure subscription can have multiple account administrators	○	○
An Azure subscription can be managed by using a Microsoft account only	○	○
An Azure resource group can contain multiple Azure subscriptions	○	○

Explanation:

Box 1: No

A subscription can have multiple administrators, but there can only be one account administrator.

Box 2: Yes

An Azure subscription is linked to a single account, the one that was used to create the subscription and is used for billing purposes. You can have more than one subscription.

Box 3: No

A subscription can contain multiple resource groups but a resource group can only belong to one subscription. Resource groups can contain multiple resources.

Reference: https://k21academy.com/microsoft-azure/az-900/az-900-azure-subscriptions/ https://azure.microsoft.com/en-us/blog/organizing-subscriptions-and-resource-groups-within-the-enterprise/

QUESTION NO: 20

You are planning to store 20 terabytes of data in Microsoft Azure. The data will be accessed infrequently but will need to be visualized using Microsoft Power BI.

What storage solutions should you consider recommending for this scenario? Choose two options, with each correct selection being worth one point.

A. Azure Data Lake

B. Azure Cosmos DB

C. Azure SQL Data Warehouse

D. Azure SQL Database

E. Azure Database for PostgreSQL

ANSWER: A C

Explanation:

You can use Power BI to analyze and visualize data stored in Azure Data Lake and Azure SQL Data Warehouse. Azure Data Lake includes all the capabilities required to easily store data of any size and format, which simplifies data processing and analytics. Azure SQL Data Warehouse provides a fast and flexible platform for storing and retrieving structured data, supporting comprehensive query abilities needed for large-scale data visualization. For more details, you can refer to the official Microsoft documentation: Azure Data Lake and Power BI and Azure Synapse (formerly SQL Data Warehouse).