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Microsoft Azure Fundamentals

Microsoft AZ-900

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QUESTION NO: 1

Your company plans to deploy several million sensors that will upload data to Azure. You need to identify which Azure resources must be created to support the planned solution. Which two Azure resources should you identify? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point

A. Azure Data Lake

B. Azure Queue storage

C. Azure File Storage

D. Azure IoT Hub

E. Azure Notification Hubs

ANSWER: A D

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

QUESTION NO: 3

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 a secure store for storage various types of sensitive information including passwords and certificates.

Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets.

Secrets and keys are safeguarded by Azure, using industry-standard algorithms, key lengths, and hardware security modules (HSMs). The HSMs used are Federal Information Processing Standards (FIPS) 140-2 Level 2 validated.

Access to a key vault requires proper authentication and authorization before a caller (user or application) can get access. Authentication establishes the identity of the caller, while authorization determines the operations that they are allowed to perform.

References:

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

QUESTION NO: 4

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

QUESTION NO: 5 - (HOTSPOT)

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
You must install Azure Cloud Shell on your computer before you can use it.	○	○
The Azure Command-Line Interface (CLI) is installed by default in Windows 11.	○	○
Azure PowerShell can be used on computers that run Windows, Linux, or macOS.	○	○

ANSWER:

Statements	Yes	No
You must install Azure Cloud Shell on your computer before you can use it.	○	○
The Azure Command-Line Interface (CLI) is installed by default in Windows 11.	○	○
Azure PowerShell can be used on computers that run Windows, Linux, or macOS.	○	○

QUESTION NO: 6 - (HOTSPOT)

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

After you create a virtual machine, you need to modify the [network security group (NSG) / virtual network gateway / virtual network / route table] to allow connections to TCP port 8080 on the virtual machine.

ANSWER:

After you create a virtual machine, you need to modify the [network security group (NSG) / virtual network gateway / virtual network / route table] to allow connections to TCP port 8080 on the virtual machine.

QUESTION NO: 7

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

You are required to deploy an Artificial Intelligence (AI) solution in Azure.

You want to make sure that you are able to build, test, and deploy predictive analytics for the solution.

Solution: You should make use of Azure Machine Learning Studio.

Does the solution meet the goal?

A. Yes

B. No

ANSWER: A

QUESTION NO: 8 - (DRAG DROP)

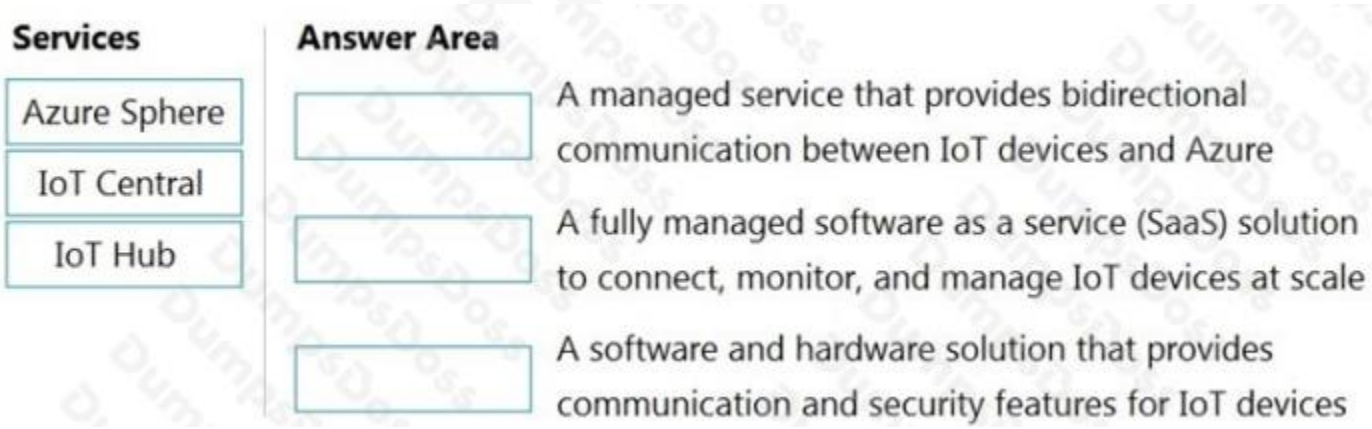
DRAG DROP

Match the Azure Services service to the correct description.

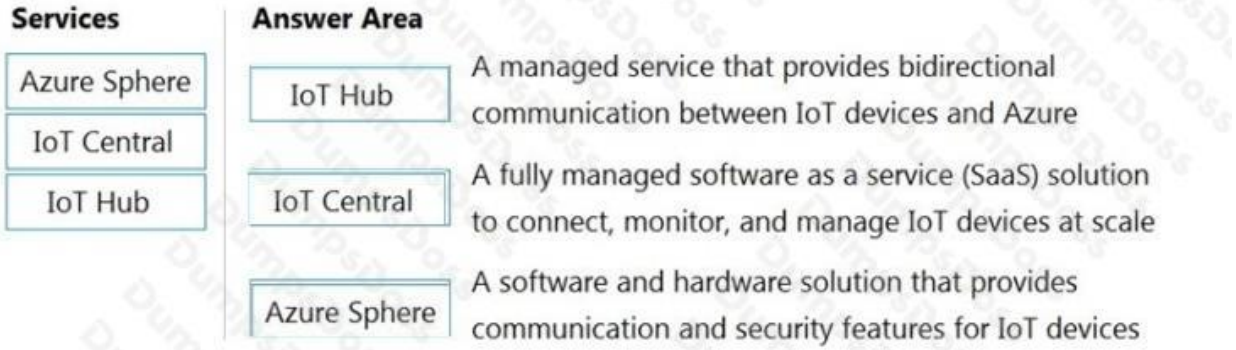
Instructions: To answer, drag the appropriate service from the column on the left to its description on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

Reference:

https://docs.microsoft.com/en-us/azure-sphere/product-overview/what-is-azure-sphere https://docs.microsoft.com/en-us/azure/iot-central/core/overview-iot-central https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub

QUESTION NO: 9

Your company plans to automate the deployment of servers to Azure.

Your manager is concerned that you may expose administrative credentials during the deployment.

You need to recommend an Azure solution that encrypts the administrative credentials during the deployment.

What should you include in the recommendation?

A. Azure Key Vault

B. Azure Information Protection

C. Azure Security Center

D. Azure Multi-Factor Authentication (MFA)

ANSWER: A

Explanation:

Azure Key Vault is a secure store for storage various types of sensitive information. In this question, we would store the administrative credentials in the Key Vault. With this solution, there is no need to store the administrative credentials as plain text in the deployment scripts.

All information stored in the Key Vault is encrypted.

Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets.

Secrets and keys are safeguarded by Azure, using industry-standard algorithms, key lengths, and hardware security modules (HSMs). The HSMs used are Federal Information Processing Standards (FIPS) 140-2 Level 2 validated.

Access to a key vault requires proper authentication and authorization before a caller (user or application) can get access. Authentication establishes the identity of the caller, while authorization determines the operations that they are allowed to perform.

References:

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

QUESTION NO: 10 - (DRAG DROP)

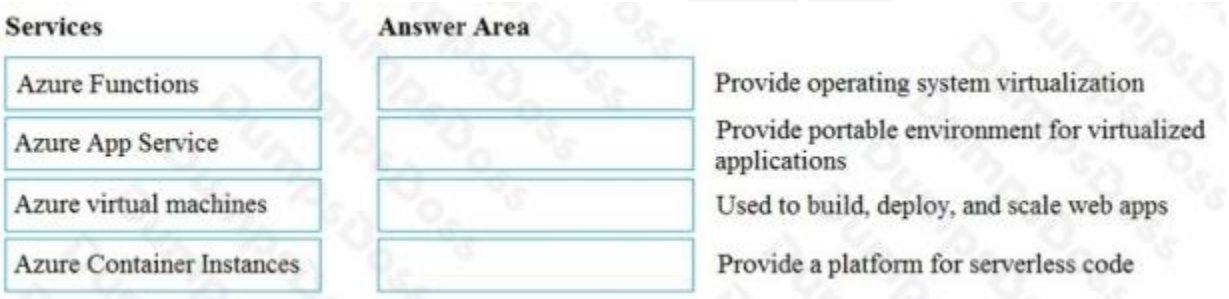
DRAG DROP

Match the Azure service to the correct description.

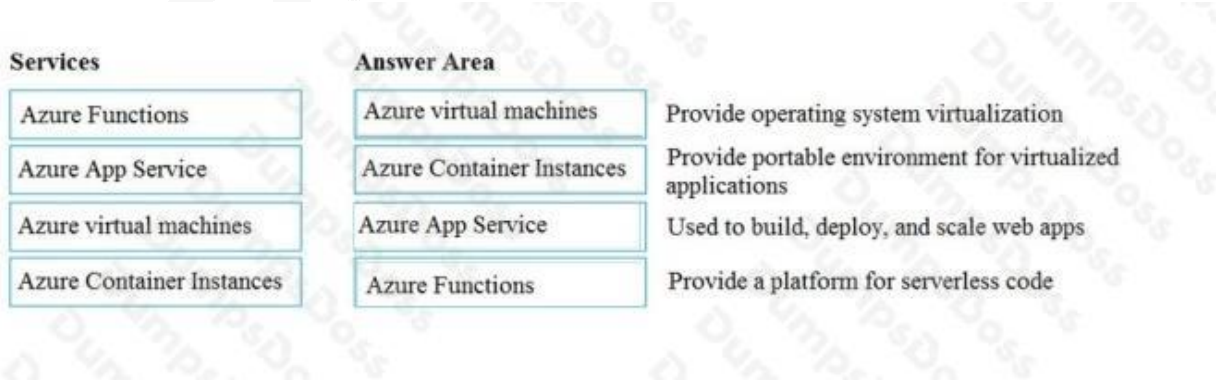
Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

Box 1:

Azure virtual machines provide operation system virtualization.

Azure Virtual Machines (VM) is one of several types of on-demand, scalable computing resources that Azure offers. Typically, you choose a VM when you need more control over the computing environment than the other choices offer.

Box 2:

Azure Container Instances provide portable environments for virtualized applications.

Containers are becoming the preferred way to package, deploy, and manage cloud applications. Azure Container Instances offers the fastest and simplest way to run a container in Azure, without having to manage any virtual machines and without having to adopt a higher-level service.

Containers offer significant startup benefits over virtual machines (VMs). Azure Container Instances can start containers in Azure in seconds, without the need to provision and manage VMs.

Box 3:

Azure App Service is used to build, deploy and scale web apps.

Azure App Service is a platform-as-a-service (PaaS) offering that lets you create web and mobile apps for any platform or device and connect to data anywhere, in the cloud or on-premises. App Service includes the web and mobile capabilities that were previously delivered separately as Azure Websites and Azure Mobile Services.

Box 4:

Azure Functions provide a platform for serverless code.

Azure Functions is a serverless compute service that lets you run event-triggered code without having to explicitly provision or manage infrastructure.

References: https://docs.microsoft.com/en-us/azure/virtual-machines/windows/overview https://docs.microsoft.com/en-us/azure/security/fundamentals/paas-applications-using-app-services https://docs.microsoft.com/en-us/azure/azure-functions/ https://docs.microsoft.com/en-us/azure/container-instances/container-instances-overview

QUESTION NO: 11

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:

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:

QUESTION NO: 12

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 a correct solution.

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

Your company has an Azure subscription that contains the following unused resources:

- 20 user accounts in Azure Active Directory (Azure AD)
- Five groups in Azure AD
- 10 public IP addresses
- 10 network interfaces

You need to reduce the Azure costs for the company.

Solution: You remove the unused network interfaces.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

You are not charged for unused network interfaces. Therefore, deleting unused network interfaces will not reduce the Azure costs for the company.

Reference:

https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations#reduce-costs-by-deleting-or-reconfiguring-idle-virtual-network-gateways

QUESTION NO: 13

You plan to deploy a website to Azure. The website will be accessed by users worldwide and will host large video files.

You need to recommend which Azure feature must be used to provide the best video playback experience.

What should you recommend?

A. an application gateway

B. an Azure ExpressRoute circuit

C. a content delivery network (CDN)

D. an Azure Traffic Manager profile

ANSWER: C

Explanation:

The question states that users are located worldwide and will be downloading large video files. The video playback experience would be improved if they can download the video from servers in the same region as the users. We can achieve this by using a content deliver network.

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.

References:

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

QUESTION NO: 14

Your company plans to deploy several custom applications to Azure. The applications will provide invoicing services to the customers of the company. Each application will have several prerequisite applications and services installed.

You need to recommend a cloud deployment solution for all the applications.

What should you recommend?

A. Software as a Service (SaaS)

B. Platform as a Service (PaaS)

C. Infrastructure as a Service (IaaS)

ANSWER: C

Explanation:

Infrastructure as a service (IaaS) is an instant computing infrastructure, provisioned and managed over the internet. The IaaS service provider manages the infrastructure, while you purchase, install, configure, and manage your own software

Incorrect Answers:

A: Software as a service (SaaS) allows users to connect to and use cloud-based apps over the Internet. Common examples are email, calendaring, and office tools. In this scenario, you need to run your own apps, and therefore require an infrastructure.

B:

Platform as a service (PaaS) is a complete development and deployment environment in the cloud. PaaS includes infrastructure—servers, storage, and networking—but also middleware, development tools, business intelligence (BI) services, database management systems, and more. PaaS is designed to support the complete web application lifecycle: building, testing, deploying, managing, and updating.

References: https://azure.microsoft.com/en-us/overview/what-is-iaas/ https://azure.microsoft.com/en-us/overview/what-is-saas/ https://azure.microsoft.com/en-us/overview/what-is-paas/

QUESTION NO: 15

An Azure administrator plans to run a PowerShell script that creates Azure resources. You need to recommend which computer configuration to use to run the script.

Which three computers can run the script? Each correct answer presents a complete solution

NOTE: Each correct selection is worth one point.

A. a computer that runs macOS and has PowerShell Core 6.0 installed

B. a computer that runs Windows 10 and has the Azure PowerShell module installed

C. a computer that runs Chrome OS and uses Azure Cloud Shell

D. a computer that runs Linux and has the Azure CLI tools installed

ANSWER: A B C

QUESTION NO: 16

An Azure administrator plans to run a PowerShell script that creates Azure resources.

You need to recommend which computer configuration to use to run the script.

Which three computers can run the script? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. a computer that runs macOS and has PowerShell Core 6.0 installed.

B. a computer that runs Windows 10 and has the Azure PowerShell module installed.

C. a computer that runs Linux and has the Azure PowerShell module installed.

D. a computer that runs Linux and has the Azure CLI tools installed.

E. a computer that runs Chrome OS and uses Azure Cloud Shell.

ANSWER: A B E

Explanation:

A PowerShell script is a file that contains PowerShell cmdlets and code. A PowerShell script needs to be run in PowerShell.

Reference:

https://docs.microsoft.com/en-us/powershell/scripting/components/ise/how-to-write-and-run-scripts-in-the-windows-powershell-ise?view=powershell-6 https://docs.microsoft.com/en-us/azure/cloud-shell/quickstart-powershell

QUESTION NO: 17

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 implement a solution that enables the client computers on your on-premises network to communicate to the Azure virtual machines, you need to configure a VPN (Virtual Private Network) to connect the on-premises network to the Azure virtual network.

The Azure VPN device is known as a Virtual Network Gateway. The virtual network gateway needs to be located in a dedicated subnet in the Azure virtual network. This dedicated subnet is known as a gateway subnet and must be named 'GatewaySubnet'.

Note: a virtual network (answer D) is also required. However, as we already have virtual machines deployed in a Azure, we can assume that the virtual network is already in place.

References:

https://docs.microsoft.com/en-us/office365/enterprise/connect-an-on-premises-network-to-a-microsoft-azure-virtual-network

QUESTION NO: 18

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 a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, 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 states that only platform as a service (PaaS) solutions must be used in Azure.

You need to deploy an Azure environment that supports the planned migration.

Solution: You create an Azure App Service and Azure Storage accounts.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

QUESTION NO: 19

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 a correct solution.

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

You have an Azure subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1.

az vm create --resource-group RG1 --name VM1 --image UbuntuLTS --generate-ssh-keys

You need to create VM1 in Subscription1 by using the command.

Solution: From a computer that runs Windows 10, install Azure CLI. From a command prompt, sign in to Azure and then run the command.

Does this meet the goal?

A. Yes

B. No

ANSWER: A

Explanation:

The command can be run from PowerShell or the command prompt if you have the Azure CLI installed.

Reference:

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

QUESTION NO: 20

A support engineer plans to perform several Azure management tasks by using the Azure CLI.

You install the CLI on a computer.

You need to tell the support engineer which tools to use to run the CLI.

Which two tools should you instruct the support engineer to use? Each correct answer presents a complete solution.

NOTE: Each correct selection 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 is installed via an MSI, which gives you access to the CLI through the Windows Command Prompt (CMD) or PowerShell.

References:

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