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Question Set 1

QUESTION 1

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.

A company has custom ASP.net and Java applications that run on old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You create an Azure virtual network, a public IP address, and load balancer. Then add virtual machines (VMs) to the solution and deploy individual containers on them.

Does the solution meet the goal?



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- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

You are designing an Azure Web App that includes many static content files.

The application is accessed from locations all over the world by using a custom domain name.

You need to recommend an approach for providing access to the static content with the least amount of latency.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Place the static content in Azure Blob storage and enable Content Delivery Network (CDN) on the account.
- B. Place the static content in Azure Table storage.
- C. Configure a custom domain name that is an alias for the Azure Storage domain.
- D. Configure a CNAME DNS record for the Azure Content Delivery Network (CDN) domain.

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

A: The Azure Content Delivery Network (CDN) offers developers a global solution for delivering high-bandwidth content by caching blobs and static content of compute instances at physical nodes in the United States, Europe, Asia, Australia and South America. The benefits of using CDN to cache Azure data include:

- Better performance and user experience for end users who are far from a content source, and are using applications where many 'internet trips' are required to load content
- Large distributed scale to better handle instantaneous high load, say, at the start of an event such as a product launch

D: There are two ways to map your custom domain to a CDN endpoint.

1. Create a CNAME record with your domain registrar and map your custom domain and subdomain to the CDN endpoint
2. Add an intermediate registration step with Azure cdnverify

References: <https://docs.microsoft.com/en-us/azure/architecture/best-practices/cdn>

QUESTION 3

You are designing a microservices architecture that will support a web application.

The solution must meet the following requirements:

- Allow independent upgrades to each microservice.
- Deploy the solution on-premises and to Azure.
- Set policies for performing automatic repairs to the microservices. ▪

Support low-latency and hyper-scale operations.

You need to recommend a technology.

What should you recommend?

- A. Azure Container Instance
- B. Azure Container Service
- C. Azure Virtual Machine Scale Set
- D. Azure Service Fabric

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References: <https://msdn.microsoft.com/en-us/magazine/mt595752.aspx>

QUESTION 4

DRAG DROP

A company runs multiple line-of-business applications in a Kubernetes container cluster. Source code for the applications resides in a version control repository which is a part of a continuous integration/continuous deployment (CI/CD) solution.

You must be able to upgrade containerized applications without downtime after all tests and reviews have completed successfully.

You need to recommend steps to go from source code to updated applications so that they can be automated in the CI/CD solution.

Which four actions should you recommend be performed in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
Update the DNS CNAME record of the application.	
Update the container.	
Push the image to the registry.	
Build the application.	
Change the Azure Service Definition schema.	
Reconfigure the routing tables.	
Change the Azure Service Configuration file.	
Build the container image with the application.	

Correct Answer:

Actions	Answer Area
Update the DNS CNAME record of the application.	Build the application.
	Build the container image with the application.
	Push the image to the registry.
	Update the container.
Change the Azure Service Definition schema.	
Reconfigure the routing tables.	
Change the Azure Service Configuration file.	

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/vsts/build-release/apps/cd/azure/deploy-container-kubernetes>

QUESTION 5

You have a customer database on your internal network. The database supports an application that your sales organization uses. You plan to migrate the application to the cloud.

All customer data must remain inside the corporate network.

You need to ensure that the application can access the customer data without affecting network security.

What should you do?

A. Open the ports required to access the database in the network firewall.

- B. Use Microsoft Azure Service Bus Relay to expose and consume a SOAP web service with TCP.
- C. Configure Direct Access on the virtual network.
- D. Create a Site-to-Site VPN connection.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/windows-server/remote/remote-access/directaccess/directaccess>

QUESTION 6

You are designing an Azure Media Services solution. The solution must meet the following requirements:

- Allow only authenticated users to play back media.
- Ensure that media playback uses dynamic and envelope encryption.

Which three actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure the media encoder to use AES clear key encryption.
- B. Encode source files into single-bitrate MP4 files.
- C. Configure a content key authorization policy.
- D. Configure the media encoder to use DRM encryption.
- E. Configure an asset delivery policy.
- F. Encode source files into adaptive-bitrate MP4 files.
- G. Encrypt the files using AES 256 bit encryption and upload to Azure Storage.

Correct Answer: CEF

Section: [none]

Explanation

Explanation/Reference:

References: <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/media-services/media-services-protect-with-aes128.md>

QUESTION 7

HOTSPOT You are designing a solution that consist of Internet of Things (IoT) devices and external streams of data.

You need to provide near real-time functionality.

Which technologies should you implement? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement

Technology

Monitoring assets

▼

Azure IoT Hub
Azure Event Grid
Azure Event Hubs
Azure Time Series Insights
Azure Stream Analytics

Telemetry ingestion

▼

Azure IoT Hub
Azure Event Grid
Azure Event Hubs
Azure Time Series Insights
Azure Stream Analytics

Providing real time predictions

▼

Azure IoT Hub
Azure Event Grid
Azure Event Hubs
Azure Time Series Insights
Azure Stream Analytics

Spotting anomalies on IoT data

▼

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Correct Answer:



Answer Area

Requirement

Technology

Monitoring assets

▼

Azure IoT Hub
Azure Event Grid
Azure Event Hubs
Azure Time Series Insights
Azure Stream Analytics

Telemetry ingestion

▼

Azure IoT Hub
Azure Event Grid
Azure Event Hubs
Azure Time Series Insights
Azure Stream Analytics

Providing real time predictions

▼

Azure IoT Hub
Azure Event Grid
Azure Event Hubs
Azure Time Series Insights
Azure Stream Analytics

Spotting anomalies on IoT data

▼

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Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/iot-suite/iot-suite-options> <https://azure.microsoft.com/en-us/services/stream-analytics/> <https://azure.microsoft.com/en-us/services/time-series-insights/>

QUESTION 8

A company uses Microsoft Operations Management Suite (OMS) to manage 1,000 virtual machines (VMs) in Azure.

The security officer reports that VMs often are not updated. You recommend to the company that they implement the OMS Update Management solution.

You need to describe the OMS Update Management solution to the company.

Which functionality does the OMS Update Management solution provide?



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- A. assessment of missing Windows and Linux updates on the VMs
- B. assessment of antimalware on the VMs
- C. assessment of Windows and Linux upgrades on the VMs
- D. alerts regarding VM issues

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/azure/operations-management-suite/oms-solution-update-management>

QUESTION 9

HOTSPOT You are

managing the automation of your company's Azure resources.

You need to choose the appropriate tool to automate specific use cases.

Which tool should you choose for each use case? To answer, select the appropriate tool from each list in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Use case	Tool
Automate a portfolio of scripts.	<div>▼</div> <div>Azure Automation</div> <div>Desired State Configuration</div>
Create an ad hoc script to add a virtual machine.	<div>▼</div> <div>Azure PowerShell</div> <div>Desired State Configuration</div>

Correct Answer:

Answer Area

Use case	Tool
Automate a portfolio of scripts.	<div>▼</div> <div>Azure Automation</div> <div>Desired State Configuration</div>
Create an ad hoc script to add a virtual machine.	<div>▼</div> <div>Azure PowerShell</div> <div>Desired State Configuration</div>

Section: [none]

Explanation

Explanation/Reference:

References:

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

<https://docs.microsoft.com/en-us/azure/virtual-machines/scripts/virtual-machines-windows-powershell-sample-create-iis-using-dsc-auto>

<https://docs.microsoft.com/en-us/azure/automation/automation-dsc-compile>

QUESTION 10

A company has a public-facing website that is being monitored using Microsoft Operations Management Suite (OMS). The OMS service map solution is deployed.

Customers report that the website displays error messages and is very slow to load pages each day at 04:00. The company plans to use the OMS Service Map solution to investigate the issues.

You need to recommend actions that the company should perform with OMS Service Map.

Which three actions should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. View alerts that show critical CPU utilization.
- B. Install updates to the device that hosts the website.
- C. Create a backup of the web server.
- D. View the device that hosts the website.
- E. View the process that produced the alert.

Correct Answer: ADE

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/azure/operations-management-suite/operations-management-suite-service-map>

QUESTION 11

You have business services that run on an on-premises mainframe server.

You must provide an intermediary configuration to support existing business services and Azure. The business services cannot be rewritten. The business services are not exposed externally.

You need to recommend an approach for accessing the business services.

What should you recommend?

- A. Connect to the on-premises server by using a custom service in Azure.
- B. Expose the business services externally.
- C. Expose the business services to the Azure Service Bus by using a custom service that uses relay binding.
- D. Move all business service functionality to Azure.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References: <http://azure.microsoft.com/en-gb/documentation/articles/service-bus-dotnet-how-to-use-relay/>

QUESTION 12

You are designing an Azure solution.

The network traffic for the solution must be securely distributed by providing the following features: ▪

HTTPS protocol

▪ Round robin routing ▪

SSL offloading

You need to recommend a load balancing option.

What should you recommend?

A. Azure Internet Load Balancer (ILB)

B. Azure Load Balancer

C. Azure Traffic Manager

D. Azure Application Gateway



Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-introduction>

QUESTION 13

You use a virtual network to extend an on-premises IT environment into the cloud. The virtual network has two virtual machines (VMs) that store sensitive data.

The data must only be available using internal communication channels. Internet access to those VMs is not permitted.

You need to ensure that the VMs cannot access Internet.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure ExpressRoute
- B. network interface (NIC)
- C. Source Network Address Translation (SNAT)
- D. Network Security Groups (NSG)

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction> <https://reticent.net.nz/prevent-internet-access-from-azure-virtual-machines/>

QUESTION 14

A company hosts a website and exposes web services on the company intranet. The intranet is secured by using a firewall. Company policies prohibit changes to firewall rules.

Devices outside the firewall must be able to access the web services.

You need to recommend an approach to enable inbound communication.

What should you recommend?

- A. the Azure Access Control Service
- B. Windows Azure Pack
- C. the Azure WCF Relay
- D. a web service in an Azure role that relays data to the internal web services

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/service-bus-relay/relay-what-is-it>

QUESTION 15

A partner manages on-premises and Azure environments. The partner deploys an on-premises solution that needs to use Azure services. The partner deploys a virtual appliance.

All network traffic that is directed to a specific subnet must flow through the virtual appliance.

You need to recommend solutions to manage network traffic.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Configure Azure Traffic Manager.
- B. Configure a routing table with forced tunneling.
- C. Implement an Azure virtual network.
- D. Implement Azure ExpressRoute.

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview> <https://docs.microsoft.com/en-us/azure/expressroute/expressroute-routing>

QUESTION 16

You manage on-premises network and Azure virtual networks.

You need a secure private connection between the on-premises networks and the Azure virtual networks. The connection must offer a redundant pair of cross connections to provide high availability.

What should you recommend?

- A. virtual network peering
- B. Azure Load Balancer
- C. VPN Gateway
- D. ExpressRoute

Correct Answer: B

Section: [none]
Explanation

Explanation/Reference:

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

QUESTION 17
DRAG DROP

You are designing a solution that ingests, transforms, and stores streams of data from Internet of Things (IoT) devices.

The solution has the following requirements:

- Business users must be able to discover, understand, consume, and contribute to data creation.
- Transform data by using Spark.
- Data analysis must be performed by using a hub-and-spoke business intelligence model.

You need to choose the appropriate products for the solution.

Which technologies should you recommend? To answer, drag the appropriate technologies to the correct requirements. Each technology may be used once, more than one, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Answer Area

Products	Requirement	Product
Azure Analysis Services	Discover, understand, consume, and contribute data.	Product
Azure Data Factory	Transform data	Product
Azure Data Catalog	Transform data analysis	Product
Azure Data Lake Analytics		

Correct Answer:

Answer Area		
Products	Requirement	Product
Azure Analysis Services	Discover, understand, consume, and contribute data.	Azure Data Catalog
Azure Data Factory	Transform data	Azure Data Factory
Azure Data Catalog	Transform data analysis	Azure Data Factory
Azure Data Lake Analytics		

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/data-catalog/data-catalog-what-is-data-catalog> <https://docs.microsoft.com/en-us/azure/data-factory/transform-data-using-spark> <http://gcloud.world/the-cloud-in-the-news/announcing-azure-analysis-services-general-availability-2/>

QUESTION 18

DRAG DROP

You are designing an Azure storage solution for a company.

The company has the following storage requirements:

- An app named App1 uses data analytics on stored data. App1 must store data on a hierarchical file system that uses Azure Active Directory (Azure AD) access control lists.
- An app named App2 must have access to object-based storage. The storage must support role-based access control and use shared access signature keys.

You need to design the storage solution.

Which storage solution should you use for each app? To answer, drag the appropriate storage solutions to the correct apps. Each storage solution may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Answer area		
Storage solutions	App	Storage solution
Azure Blob Storage	App1	Storage solutions
Azure File Storage	App2	Storage solutions
Azure Data Lake Store		
Azure StorSimple virtual device		
Azure Site Recovery		

Correct Answer:

Answer area		
Storage solutions	App	Storage solution
	App1	Azure Data Lake Store
Azure File Storage	App2	Azure Blob Storage
Azure StorSimple virtual device		
Azure Site Recovery		

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-comparison-with-blob-storage>

QUESTION 19

You are designing a solution that will aggregate and analyze data from Internet of Things (IoT) devices.

The solution must meet the following requirements:

- Store petabytes of data
- Use shared access policies to provide service connections to the IoT event source.
- Conduct analysis of data in near real-time.
- Provide ultra-low latency and highly scalable transaction processing.

You need to recommend a technology.

What should you recommend?

- A. Azure Data Lake Store
- B. Azure Redis Cache
- C. Azure Time Series Insights
- D. Azure Table storage

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References: <https://azure.microsoft.com/en-us/services/data-lake-store/>

QUESTION 20

Your company uses Office 365 for all employees. The company plans to create a website where customers can view and register technical support cases.

The solution must meet the following requirements:

- Provision customer identities by using social media accounts.
- Users must be able to access the website by using social media accounts including Facebook.
- Employees of the customer service department must be able to access the site to read the cases and resolve them.

You need to design an identity solution for the company.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.



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- A. a custom policy to link internal store to the external store
- B. a new Azure Active Directory (Azure AD) business-to-business (B2B) tenant

- C. an Azure SQL data sync to link the internal store to the external one
- D. a new Azure Active Directory (Azure AD) business-to-consumer (B2C) tenant
- E. a new Azure Active Directory (Azure AD) tenant

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-overview> <https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-overview-custom>

QUESTION 21

HOTSPOT

You are building an application that will run in a virtual machine (VM). The application will use Managed Service Identity (MSI).

The application uses Azure Key Vault, Azure SQL Database, and Azure Cosmos DB.

You need to ensure the application can use secure credentials to access these services.

Which authorization method should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer area

Functionality

Authorization method

Azure Key Vault

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-based Access Controls (RBAC)
HTTPS encryption

Azure SQL

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-based Access Controls (RBAC)
HTTPS encryption

Cosmos DB

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-based Access Controls (RBAC)
HTTPS encryption

Correct Answer:

Answer area

Functionality

Authorization method

Azure Key Vault

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-based Access Controls (RBAC)
HTTPS encryption

Azure SQL

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-based Access Controls (RBAC)
HTTPS encryption

Cosmos DB

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-based Access Controls (RBAC)
HTTPS encryption

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/msi-tutorial-windows-vm-access-nonaad-tutorial-windows-vm-access-sql> <https://docs.microsoft.com/en-us/azure/cosmos-db/database-security>

<https://docs.microsoft.com/en-us/azure/active-directory/msi-tutorial-windows-vm-access-sql>

QUESTION 22

Note: This question is part of a series of questions that present the same scenario. Each question on 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.

A company has custom ASP.net and Java applications that run on old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You deploy each application to an Azure Container instance.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Container Instances are really containers as a service. You request a container instance to be created based on an image and the container is created for you. You don't see an orchestrator, you don't see a VM, you don't see anything other than your container instance. References:

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

QUESTION 23

Note: This question is part of a series of questions that present the same scenario. Each question on 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 are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure Files in the design.

Does this solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References: <https://azure.microsoft.com/en-us/services/container-instances/>

QUESTION 24

You develop a new Azure Web App that uses multiple Azure blobs and static content. The Web App uses a large number of JavaScript files and cascading style sheets. Some of these files contain references to other files. Users are geographically dispersed.

You need to minimize the time to load individual pages.

What should you do?

- A. Migrate the Web App to Azure Service Fabric.
- B. Create a services layer by using an Azure-hosted ASP.NET web API.
- C. Use an Azure Content Delivery Network (CDN).
- D. Implement an Azure Redis Cache.
- E. Enable the Always On feature of the Web App.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Web Apps provides a great way of building and scale Web Apps. Adding a Redis Cache allows you serve data much faster to the user which increases the performance a lot. Redis Cache is an open source engine which has consistent low latency and high throughput.

References: <https://docs.microsoft.com/en-us/azure/redis-cache/cache-web-app-cache-aside-leaderboard>

QUESTION 25**HOTSPOT**

A company plans to implement an HTTP-based API to support a Web App. The Web App allows customers to check the status of their orders.

The API must meet the following requirements:

- Implement Azure Functions.
- Provide public read-only operations. ▪
- Do not allow write operations.

You need to recommend configuration options.


What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:




Answer Area

Topic	Value
Allowed authentication methods	<div>▼</div> <div>All methods</div> <div>GET only</div> <div>GET and POST only</div> <div>GET, POST, and OPTIONS only</div>
Authorization level	<div>  VCEplus VCE To PDF - Free Practice Exam </div> <div>▼</div> <div>Function</div> <div>Anonymous</div> <div>Admin</div>

Correct Answer:

Answer Area

Topic	Value
Allowed authentication methods	<div>▼</div> <div>All methods</div> <div>GET only</div> <div>GET and POST only</div> <div>GET, POST, and OPTIONS only</div>
Authorization level	<div>  VCEplus VCE To PDF - Free Practice Exam </div> <div>▼</div> <div>Function</div> <div>Anonymous</div> <div>Admin</div>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Functions is a solution for easily running small pieces of code, or "functions," in the cloud. You can write just the code you need for the problem at hand, without worrying about a whole application or the infrastructure to run it. Functions can make development even more productive, and you can use your development language of choice, such as C#, F#, Node.js, Java, or PHP.

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

QUESTION 26

You have an Azure subscription named Subscription1.

You create several Azure virtual machines in Subscription1. All of the virtual machines belong to the same virtual network.

You have an on-premises Hyper-V server named Server1. Server1 hosts a virtual machine named VM1.

You plan to replicate VM1 to Azure.

You need to create additional objects in Subscription1 to support the planned deployment.

Which three objects should you create? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. storage account
- B. protection group
- C. Azure Traffic Manager instance
- D. endpoint
- E. Azure Site Recovery vault
- F. Hyper-V site

Correct Answer: AEF

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You need to set up a Recovery Services vault to orchestrate and manage replication.

Make sure Hyper-V hosts are prepared for Site Recovery deployment.

You need a Microsoft Azure account, Azure networks, and storage accounts.

References: <https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-tutorial-enable-replication>

QUESTION 27

You are designing the deployment of virtual machines (VMs) and web services that run in Azure.

You need to specify the desired state of a node and ensure that the node remains at that state.

What should you use?

- A. Azure Automation
- B. Windows Azure Pack
- C. Service Management Automation
- D. System Center 2016 Orchestrator

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Automation DSC is an Azure service that allows you to write, manage, and compile PowerShell Desired State Configuration (DSC) configurations, import DSC Resources, and assign configurations to target nodes, all in the cloud.

References: <https://docs.microsoft.com/en-us/azure/automation/automation-dsc-overview>

QUESTION 28

A company has a hybrid ASP.NET Web API application that is based on a software as a service (SaaS) offering.

Users report general issues with the data. You advise the company to implement live monitoring and use ad hoc queries on stored JSON data. You also advise the company to set up smart alerting to detect anomalies in the data.

You need to recommend a solution to set up smart alerting.

What should you recommend?

- A. Azure Security Center and Azure Data Lake Store
- B. Azure Data Lake Analytics and Microsoft Operations Management Suite.
- C. Azure Application Insights and Azure Log Analytics
- D. Azure Site Recovery and Microsoft Operations Management Suite

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References: <https://azure.microsoft.com/en-us/blog/how-azure-security-center-helps-analyze-attacks-using-investigation-and-log-search/>

QUESTION 29

A company hosts virtual machines (VMs) in an on-premises datacenter and in Azure. The on-premises and Azure-based VMs communicate using ExpressRoute.

The company wants to be able to continue regular operations if the ExpressRoute connection fails. Failover connections must use the Internet and must not require Multiprotocol Label Switching (MPLS) support.

You need to recommend a solution that provides continued operations.

What should you recommend?



<https://vceplus.com/>

- A. Set up a VPN connection.
- B. Set up a second ExpressRoute connection.
- C. Increase the bandwidth of the existing ExpressRoute connection.
- D. Increase the bandwidth for the on-premises internet connection.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Remember that replication from Azure to on-premises can happen only over the S2S VPN, or over the private peering of your ExpressRoute network. Ensure that enough bandwidth is available over that network channel.

References: <https://docs.microsoft.com/en-us/azure/expressroute/expressroute-faqs>

QUESTION 30

You are designing an Azure solution.

The solution must meet the following requirements:

- Distribute traffic to different pools of dedicated virtual machines (VMs) based on rules. ▪
- Provide SSL offloading capabilities.

You need to recommend a solution to distribute network traffic.

Which technology should you recommend?

- A. Azure Load Balancer
- B. server-level firewall rules
- C. Azure Application Gateway
- D. Azure Traffic Manager

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Application Gateway is a web traffic load balancer that enables you to manage traffic to your web applications.

Azure Application Gateway can be configured to terminate the Secure Sockets Layer (SSL) session at the gateway to avoid costly SSL decryption tasks to happen at the web farm. SSL offload also simplifies the front-end server setup and management of the web application.

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-introduction> <https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-ssl>

QUESTION 31

A company receives over 1,000 emails each day through the general alias info@contoso.com. The emails originate from all over the world, and include complaints and sales inquiries. Many emails relate to random topics.

The company must be able to automatically categorize emails based upon the company location geographically closest to the sender.

You need to recommend a solution.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection presents a complete solution.

- A. Bing Web Search API
- B. Bot Builder SDK
- C. Text Analytics API

D. Language Understanding Intelligent Service (LUIS) programmatic API

Correct Answer: BC

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Microsoft Bot Framework provides just what you need to build and connect intelligent bots that interact naturally wherever your users are talking, from text/SMS to Skype, Slack, Office 365 mail and other popular services.

References: <https://blog.botframework.com/2018/05/07/build-a-microsoft-bot-framework-bot-with-the-bot-builder-sdk-v4/>

QUESTION 32

You are developing a hybrid solution for a video editing company. Videos are currently edited on-premises and stored in Server Message Block (SMB) protocol share. Due to legal regulations, videos must be stored on-premises.

You must distribute videos by using Azure Media Services.

You need to recommend a storage solution for the videos.

What should you recommend?

- A. Azure StorSimple
- B. Azure Blob storage
- C. Azure Table storage
- D. Azure Cosmos DB

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Microsoft Azure StorSimple Virtual Array is an integrated storage solution that manages storage tasks between an on-premises virtual array running in a hypervisor and Microsoft Azure cloud storage.

The virtual array supports the iSCSI or Server Message Block (SMB) protocol. It runs on your existing hypervisor infrastructure and provides tiering to the cloud, cloud backup, fast restore, item-level recovery, and disaster recovery features.

References: <https://docs.microsoft.com/en-us/azure/storsimple/storsimple-ova-overview>

QUESTION 33

DRAG DROP You manage a large number of on-premises applications. You plan to migrate the applications to Azure.

You need to implement Azure Storage for each type of data that the applications use.

For each type of data, which storage mechanism should you use? To answer, drag the appropriate storage mechanism to the correct type of data. Each storage mechanism may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:



Storage option

Azure Queue storage

Azure Blob storage

Azure Premium Managed Disk storage

Azure Table storage

Azure File storage

Answer area

Type of data

Log files and other large datasets

Flexible datasets, including user data for web applications

Data associated with managing asynchronous tasks

Configuration files and diagnostic data including metrics and crash dumps

Virtual machine disk files

Storage option

storage option

storage option

storage option

storage option

storage option

Correct Answer:

Storage option

Azure Queue storage
Azure Blob storage
Azure Premium Managed Disk storage
Azure Table storage
Azure File storage

Answer area



Type of data

Log files and other large datasets

Flexible datasets, including user data for web applications

Data associated with managing asynchronous tasks

Configuration files and diagnostic data including metrics and crash dumps

Virtual machine disk files

Storage option

Azure Blob storage

Azure Table storage

Azure Queue storage

Azure File storage

Azure Blob storage

Section: [none]

Explanation

Explanation/Reference:

QUESTION 34

HOTSPOT

You are designing a solution that uses Azure Storage. The solution will store the following information.

Name	Description	Requirements
Product	The product catalog consumes at least one petabyte (PB) of storage.	Store product data in hierarchical file system.
User	Stores transactional data. Each transaction consumes one kilobyte (KB) of storage.	Store user data as key/value pairs and support frequent read operations.
IoT	Stores data collected from thousands of sensors.	Support high throughput write operations and provide near real-time trend information.

You need to recommend storage technologies for the solution.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Storage technology

Azure Data Lake Store

Azure Redis Cache

Time Series Insights

Data option

	▼
Store product data.	
Store user data.	
Store IoT data.	

	▼
Store product data.	
Store user data.	
Store IoT data.	

	▼
Store product data.	
Store user data.	
Store IoT data.	

Correct Answer:

Answer Area

Storage technology

Data option

Azure Data Lake Store

	▼
Store product data.	
Store user data.	
Store IoT data.	

Azure Redis Cache

	▼
Store product data.	
Store user data.	
Store IoT data.	

Time Series Insights

	▼
Store product data.	
Store user data.	
Store IoT data.	

Section: [none]

Explanation

Explanation/Reference:

QUESTION 35

A company plans to use Azure Cosmos DB as the document store for an application.

You need to estimate the request units required for the application.

Which variable should you include when calculating the estimate?

- A. item size
- B. consistency level
- C. cache size
- D. number of regions

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

When using data consistency levels of Strong or Bounded Staleness, additional units are consumed to read items.

References: <https://docs.microsoft.com/en-us/azure/cosmos-db/request-units>

QUESTION 36

HOTSPOT

You manage an Azure solution that processes highly sensitive data.

Existing roles are not suited to the granular access control that is required for this data.

You need to recommend solutions to limit access to the data based on selected restrictions.

What should you recommend? To answer, drag the appropriate restrictions to the correct solutions. Each restriction may be used once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Restriction	Solution
Automatic access expiration	<div>▼</div> <ul style="list-style-type: none"> Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)
Time-based access restrictions	<div>▼</div> <ul style="list-style-type: none"> Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)
Access to Azure Management endpoints	<div>▼</div> <ul style="list-style-type: none"> Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)

Correct Answer:

Answer Area

Restriction	Solution
Automatic access expiration	<div>▼</div> Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)
Time-based access restrictions	<div>▼</div> Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)
Access to Azure Management endpoints	<div>▼</div> Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Automatic access expiration: Privileged Identity Management (PIM)

To protect privileged accounts from malicious cyber-attacks, you can use Azure Active Directory Privileged Identity Management (PIM) to lower the exposure time of privileges and increase your visibility into their use through reports and alerts.

You can now use PIM with Azure Role-Based Access Control (RBAC) to manage, control, and monitor access to Azure resources. PIM can manage the membership of built-in and custom roles to help you:

- Enable on-demand, "just in time" access to Azure resources
- Expire resource access automatically for assigned users and groups
- Assign temporary access to Azure resources for quick tasks or on-call schedules
- Get alerts when new users or groups are assigned resource access, and when they activate eligible assignments

Time-based access restrictions: Conditional Access

Conditional access is a capability of Azure Active Directory that enables you to enforce controls on the access to apps in your environment based on specific conditions from a central location.

Conditional Access App Control enables user app access and sessions to be monitored and controlled in real time based on access and session policies.

Access to Azure Management endpoints: Conditional Access

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/pim-azure-resource> <https://docs.microsoft.com/en-us/cloud-app-security/proxy-intro-aad>

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



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