



**Microsoft**

**Exam Questions 70-535**

Architecting Microsoft Azure Solutions

#### NEW QUESTION 1

- (Exam Topic 1)

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment. Your company would like users to be automatically signed in when they are on their corporate desktops that are connected to the corporate network.

You need to enable single sign-on (SSO) for company users.

Solution: Install and configure an Azure AD Connect server to use password hash synchronization and select the 'Enable single sign-on' option.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** A

#### NEW QUESTION 2

- (Exam Topic 1)

A company has 100 Web servers running Windows Server on virtual machines (VMs) in Azure. All servers have IIS enabled. Each server runs a unique combination of web apps.

Servers must not run unnecessary services. The servers must be checked every 30 minutes to remove any additional Windows features and correct exceptions.

You need to design the solution with the least amount of effort and without downtime. Solution: Design a solution based on VM scale sets.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

#### NEW QUESTION 3

- (Exam Topic 1)

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 Blob storage in the design. Does this solution meet the goal?

A. Yes

B. No

**Answer:** B

#### NEW QUESTION 4

- (Exam Topic 1)

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

**Answer:** D

#### 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>

#### NEW QUESTION 5

- (Exam Topic 1)

You are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing. The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour. Solution: Create an Azure WebJob that runs the image processing application every hour. Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

#### NEW QUESTION 6

- (Exam Topic 1)

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

Answer: A

Explanation:

<https://azure.microsoft.com/en-us/blog/microservices-an-application-revolution-powered-by-the-cloud/>

NEW QUESTION 7

- (Exam Topic 1)

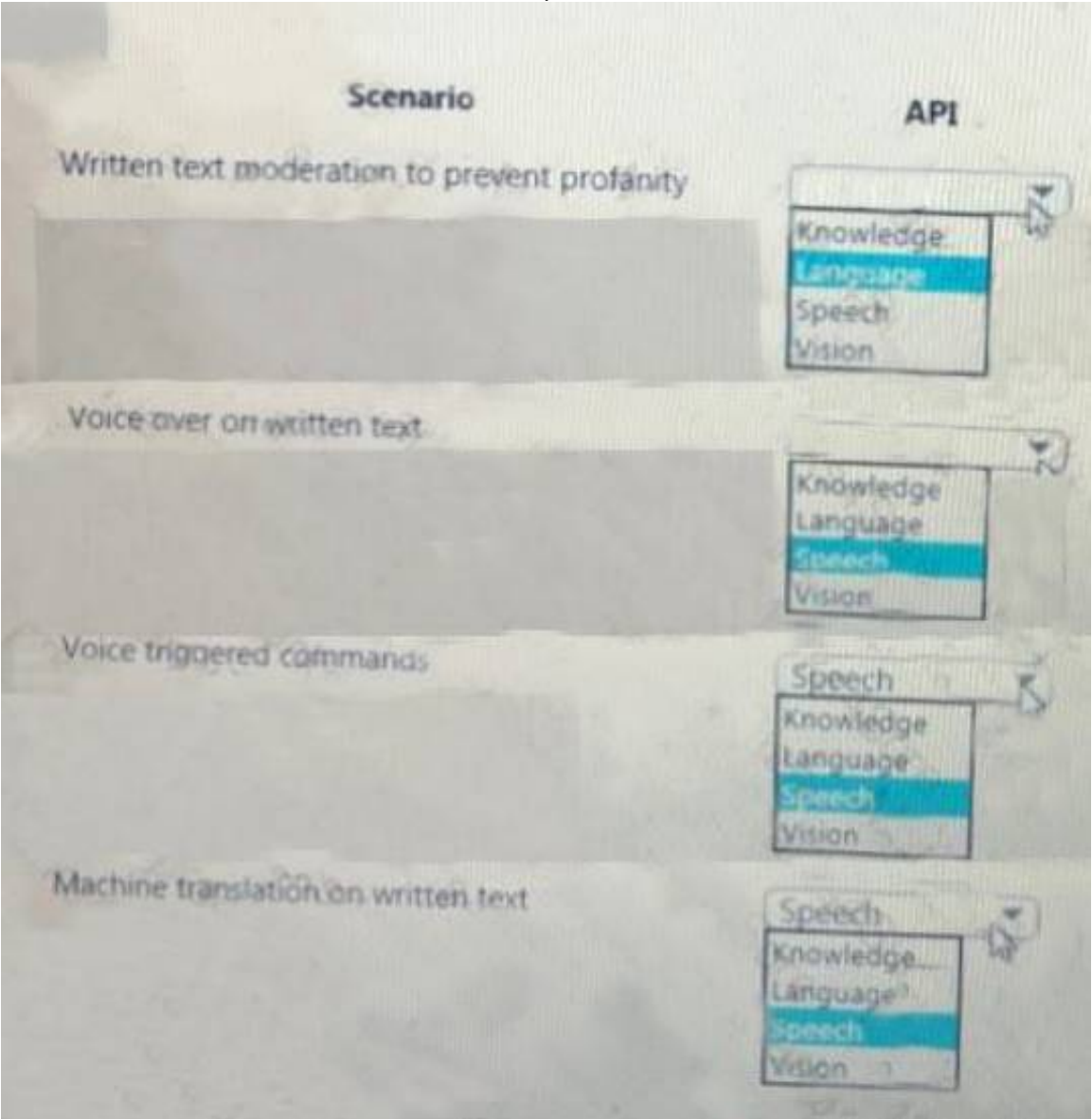
You are designing an accessible solution.

Users must be able to navigate the app by using their voice.

You need to recommend Azure Cognitive Services APIs for the solution.

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

NOTE: Each correction selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario	API
Written text moderation to prevent profanity	<div>Knowledge</div> <div>Language</div> <div>Speech</div> <div>Vision</div>
Voice over on written text	<div>Knowledge</div> <div>Language</div> <div>Speech</div> <div>Vision</div>
Voice triggered commands	<div>Speech</div> <div>Knowledge</div> <div>Language</div> <div>Speech</div> <div>Vision</div>
Machine translation on written text	<div>Speech</div> <div>Knowledge</div> <div>Language</div> <div>Speech</div> <div>Vision</div>

NEW QUESTION 8

- (Exam Topic 1)

A company runs Linux and Windows virtual machines (VMs) in a secured virtual network. You deploy Azure ExpressRoute. You need to recommend a solution that allows the company to investigate unusual network traffic for layer-2 and layer-3 protocols and ports. What should you recommend? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

Technology	Component
Deploy	<div>Deploy the Microsoft Dependency Agent to the VMs.</div> <div>Install a network appliance and reconfigure routers.</div>
Monitor	<div>Use the OMS Wire Data solution.</div> <div>Use Azure monitor.</div> <div>Use the OMS Wire Data solution.</div> <div>Use the portal of the network appliance.</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Wire data is consolidated network and performance data collected from Windows-connected and Linux-connected computers with the OMS agent, including those monitored by Operations Manager in your environment. Network data is combined with your other log data to help you correlate data. In addition to the OMS agent, the Wire Data solution uses Microsoft Dependency Agents that you install on computers in your IT infrastructure. Dependency Agents monitor network data sent to and from your computers for network levels 2-3 in the OSI model, including the various protocols and ports used. Data is then sent to Log Analytics using agents.  
Box 1: Deploy the Microsoft Dependency Agent to the VMs Box 2: Use the OMS Wire Data Solution  
Not Azure Monitor: Azure Monitor provides base-level infrastructure metrics and logs for most services in Microsoft Azure

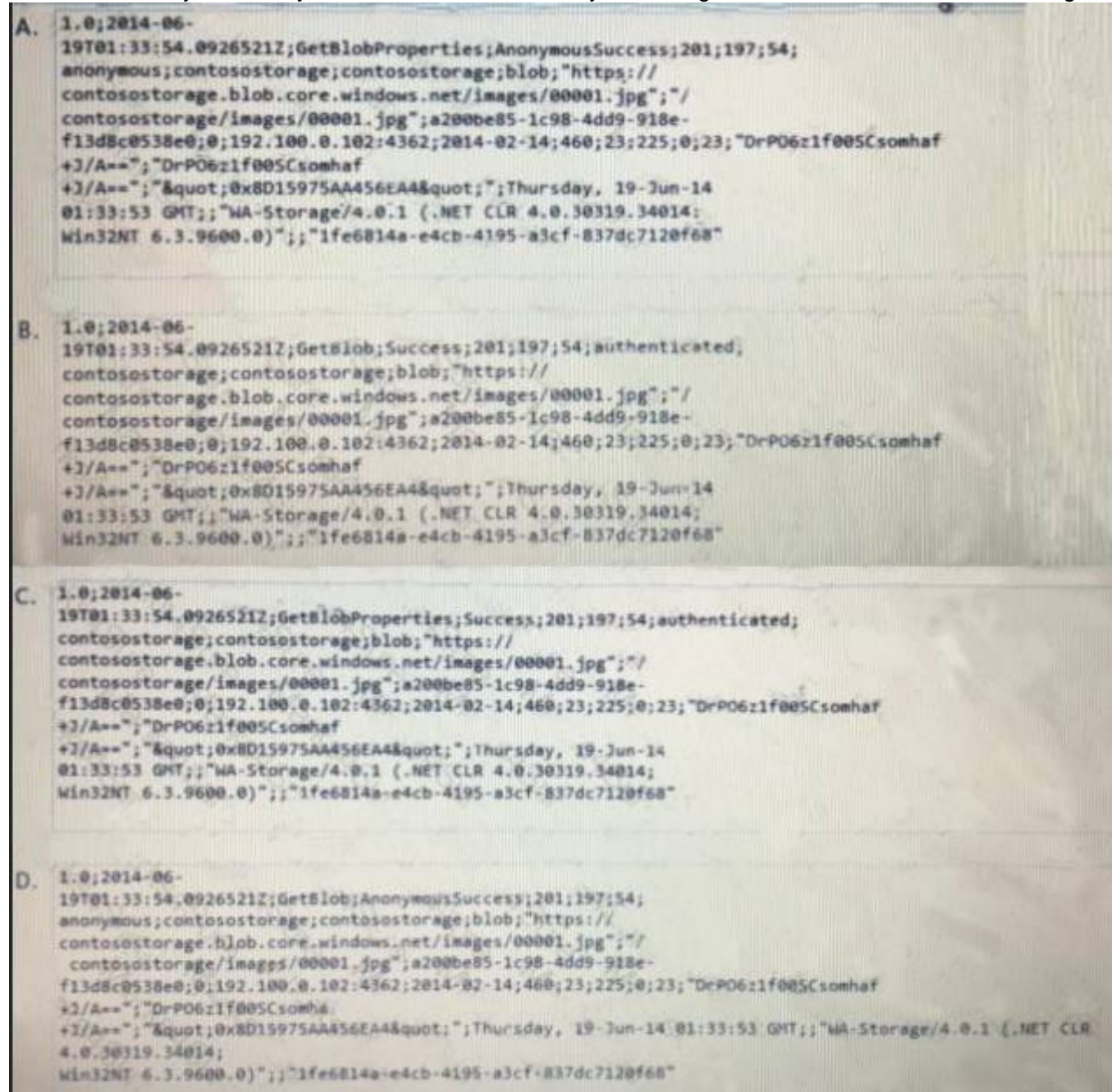
NEW QUESTION 9

- (Exam Topic 1)

You administer an Azure Storage account named contosostorage. The account has a blob container to store image files. A user reports being unable to access an image file.



You need to verify that anonymous users can successfully read Image files from the container. Which log entry should you use to verify access?



- A. Option A
- B. Option B
- C. Option C
- D. Option D

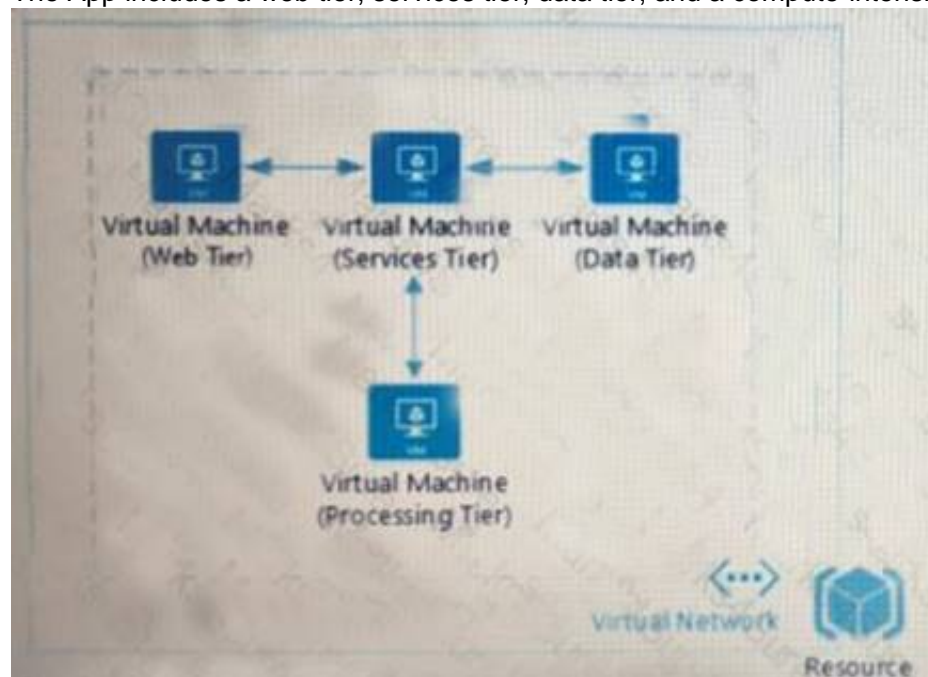
Answer: D

## NEW QUESTION 10

- (Exam Topic 1)

You deploy a Web App to Azure. The Web App uses several Basic tier, single instance virtual machines (VMs).

The App includes a web tier, services tier, data tier, and a compute-intensive processing tier, as shown in the following diagram:



You have the following requirements:

- The application must be available during all Azure platform events, including planned (VM restarts required) and unplanned (hardware failure) events.
- You must simplify VM deployments by using JSON templates and the Azure Resource Manager (ARM).
- The processing tier must support high volume CPU loads at peak times throughout the year.
- The web tier must support high volumes of incoming Internet traffic during peak times throughout the year.
- The company has authorized downtime for the infrastructure upgrades. Future updates must not include downtime.
- The infrastructure upgrades must provide the most economical solution while meeting all requirements. Users report application outages during planned Azure maintenance windows. You plan to upgrade the application to support upcoming company initiatives as well as address the user reports.

You need to upgrade the application and infrastructure.

For each tier, which action should you perform? To answer, select the appropriate action from each list in the answer area.

Answer Area

Tier	Action
Web	<div><div></div><div>Use 2 Standard tier VMs in a new availability set, load balanced with Azure Load Balancer.</div><div>Use 2 Standard tier VMs in a new resource group.</div><div>Use 2 Basic tier VMs in a new affinity group.</div><div>Use 2 Basic tier VMs, load balanced with Azure Traffic Manager.</div></div>
Services	<div><div></div><div>Use 2 Basic tier VMs in a new resource group.</div><div>Use 2 Basic tier VMs, load balanced with Azure Traffic Manager.</div><div>Use 2 Standard tier VMs in a new availability set.</div><div>Use 2 Standard tier VMs contained within the web tier availability set.</div></div>
Data	<div><div></div><div>Use a single VM in a new resource group.</div><div>Use a single VM in a new availability set.</div><div>Use 2 Standard tier VMs in a new availability set.</div><div>Use 2 Standard tier VMs contained within the services tier availability set.</div></div>
Processing	<div><div></div><div>Use 3 Standard tier VMs in a new affinity group.</div><div>Use 3 Standard tier VMs contained within the data tier availability set.</div><div>Use 2 Dv2-series VMs in a new scale set.</div><div>Use 2 Dv2-series VMs in a new resource group.</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Web tier: Use 2 Standard tier VMs in a new availability set, load balanced with Azure Load Balancer.  
The web tier must support high volumes of incoming Internet traffic during peak times throughout the year. Services: Use 2 Standard Tier VM in a new availability set.  
Data: Use 2 Standard tier VMs contained within the services tier availability set. Processing: Use 2 Dv2-series Vms in a new scale set.  
The processing tier must support high volume CPU loads at peak times throughout the year.  
Dv2-series, a follow-on to the original D-series, features a more powerful CPU. The Dv2-series CPU is about 35% faster than the D-series CPU.  
Automatic scaling of virtual machines in a scale set is the creation or deletion of machines in the set as needed to match performance requirements. As the volume of work grows, an application may require additional resources to enable it to effectively perform tasks.  
References:  
<https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-sizes>  
<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-overview>

NEW QUESTION 10

- (Exam Topic 1)  
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.



## 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

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

References:

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

### NEW QUESTION 15

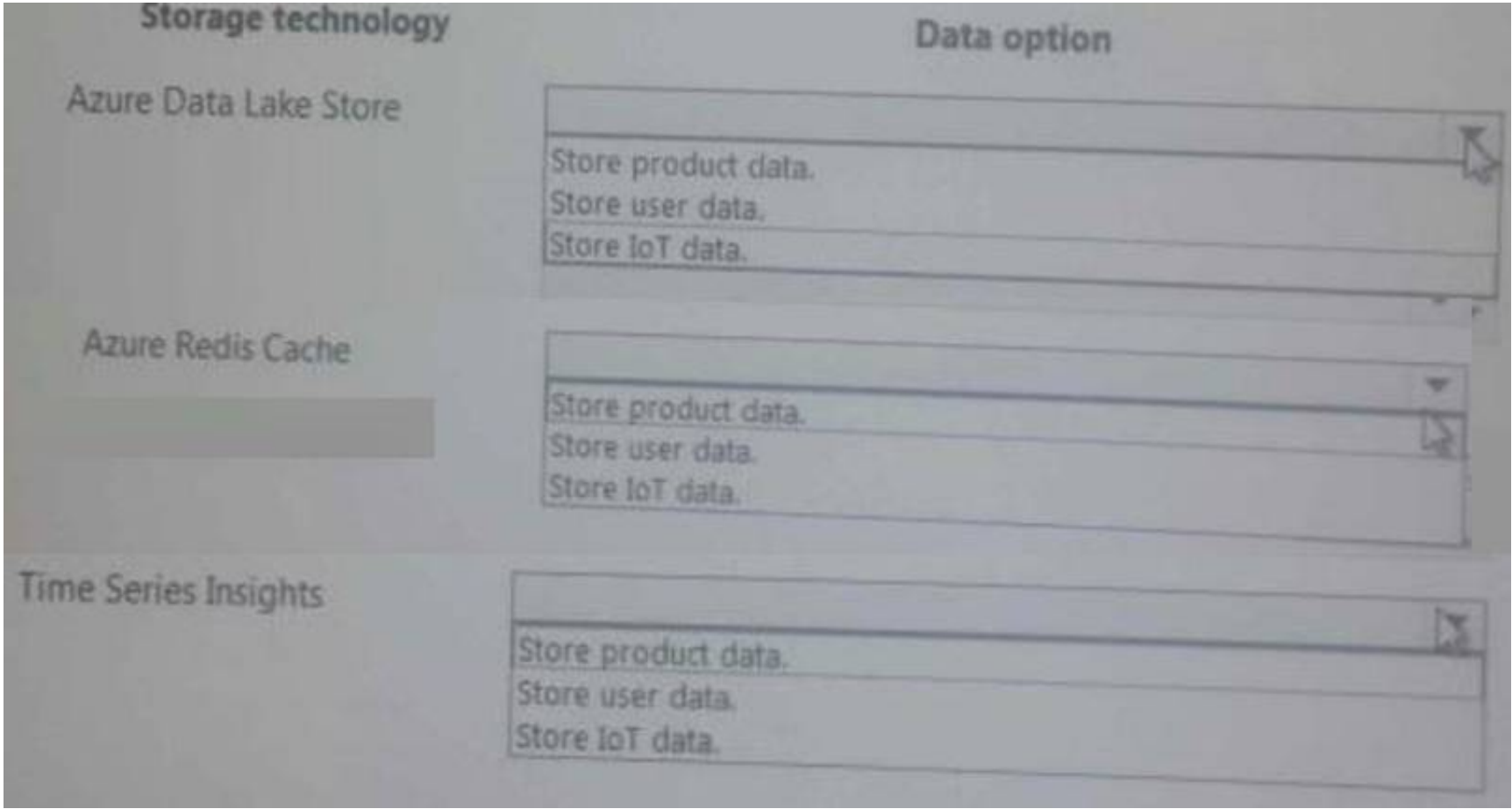
- (Exam Topic 1)

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 a 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.

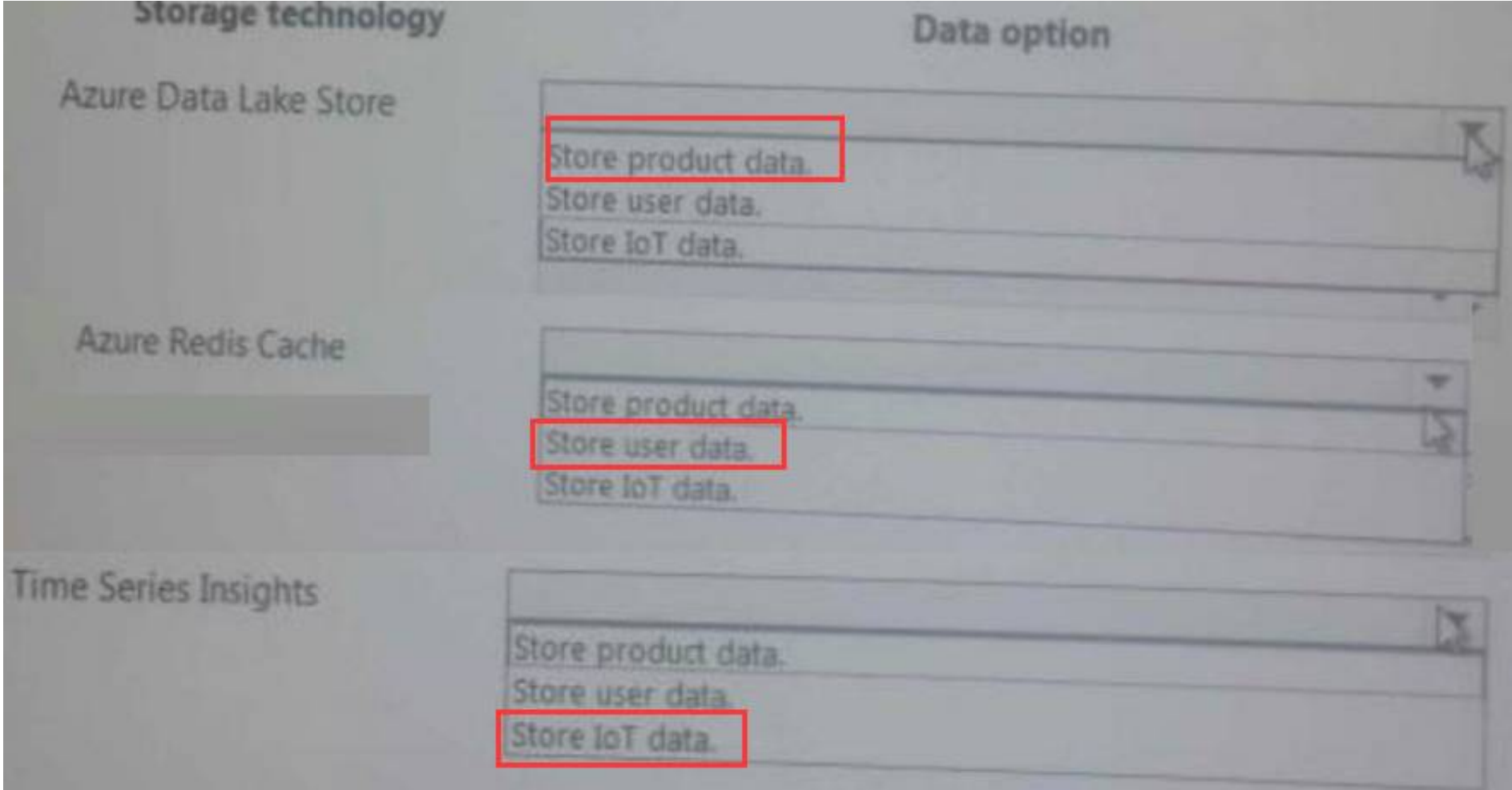
What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 16

- (Exam Topic 1)

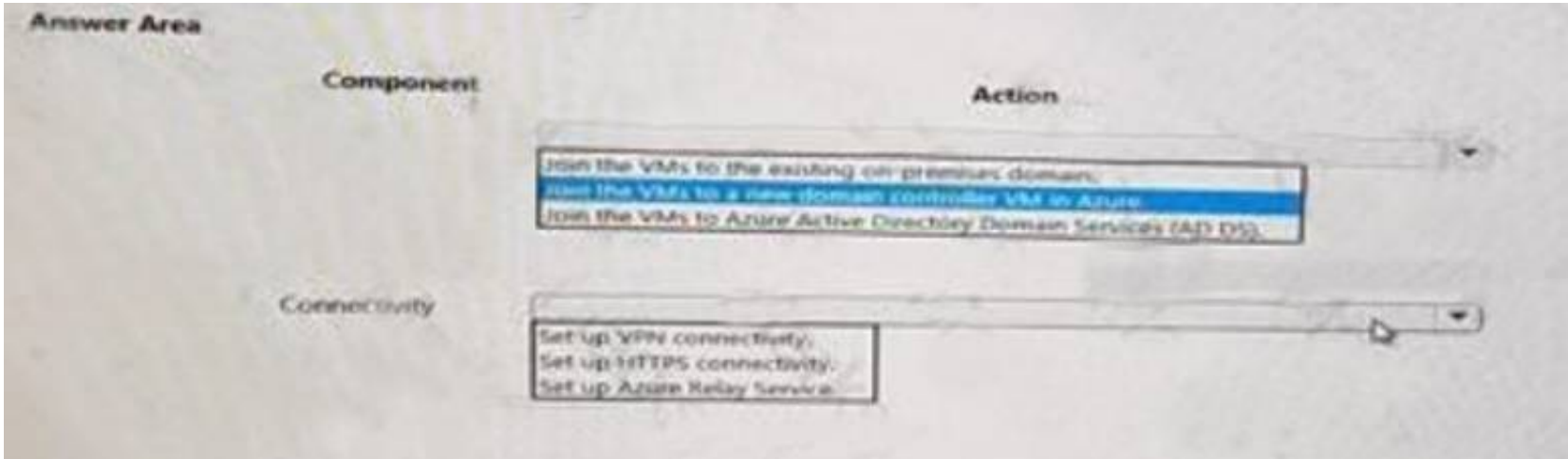
A company runs multiple Windows virtual machines (VMs) in Azure.

The IT operations department wants to apply the same policies as they have for on premises VMs to the VMs running in Azure, including domain administrator permission schema extensions.

You need to recommend a solution for the hybrid scenario that minimizes the amount of maintenance required. What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

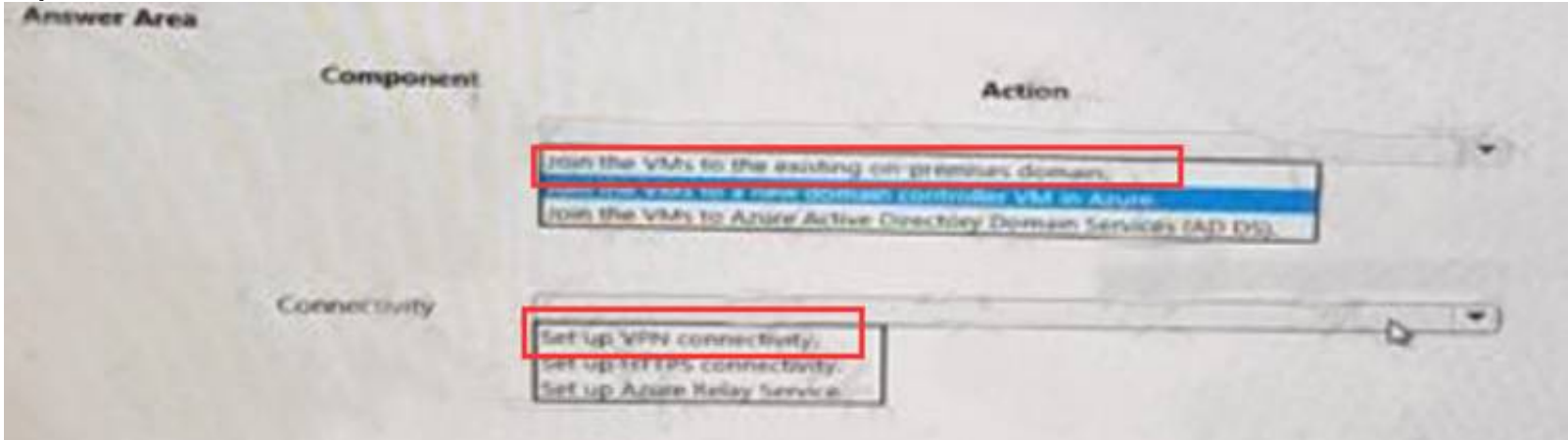




- A. Mastered  
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 17

- (Exam Topic 1)

You are implementing Azure Role-Based Access Control (RBAC).

You need to create two new administrator accounts. The accounts must meet the following requirements:

- Admin1 must be able to manage only the storage accounts that are used by virtual machines (VMs) and other resources.
- Admin2 must be able to manage and delete resources in the Recovery Services vault.

Which role should you assign to each account? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Account	Role
Admin1	<div><div></div><div>Data Factory Contributor</div><div>Storage Account Contributor</div><div>Virtual Machine Contributor</div></div>
Admin2	<div><div></div><div>Automation Operator</div><div>Backup Contributor</div><div>Backup Operator</div></div>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: Storage Account Contributor

A Storage Account Contributor can manage storage accounts, but not access to them.

NEW QUESTION 18

- (Exam Topic 1)

A company plans to use third-party application software to perform complex data analysis processes. The software will use up to 500 identical virtual machines (VMs) based on an Azure Marketplace VM image.

You need to design the infrastructure for the third-party application server. The solution must meet the following requirements:

- \* The number of VMs that are running at any given point in time must change when the user workload changes.
- \* When a new version of the application is available in Azure Marketplace it must be deployed without causing application downtime.
- \* Use VM scale sets.
- \* Minimize the need for ongoing maintenance.

Which two technologies should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. single placement group
- B. single storage account
- C. managed disks
- D. autoscale

**Answer:** CD

**Explanation:**

If your application demand increases, the load on the VM instances in your scale set increases. If this increased load is consistent, rather than just a brief demand, you can configure autoscale rules to increase the number of VM instances in the scale set.

**NEW QUESTION 23**

- (Exam Topic 1)

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

**Answer:** D

**Explanation:**

References:

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

**NEW QUESTION 25**

- (Exam Topic 1)

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 Web App that has container support. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 29**

- (Exam Topic 1)

The 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. Each correct selection presents a complete solution.

- A. Bot Builder SDK.
- B. Language Understanding Intelligent Service (LUIS) programmatic API
- C. Bing Web Search API
- D. Text Analytics API

**Answer:** BD

**NEW QUESTION 31**

- (Exam Topic 1)

A company uses Azure AD Connect to synchronize on-premises and Azure identities. The company uses Active Directory Federation Services (AD FS) for external users. The AD FS servers run on Windows Server 2016.

You need to ensure that Azure AD Connect Health can analyze all AD FS audit logs. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point

- A. On the Azure AD Connect server, enable security auditing.
- B. On the AD FS servers, set the audit level to Verbose.
- C. On the AD FS servers, enable security auditing.
- D. On the Azure AD Connect server, set the audit level to Verbose.

**Answer:** BC

**NEW QUESTION 32**

- (Exam Topic 1)

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

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 34

- (Exam Topic 1)

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.

- 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

**Answer:** AD

**Explanation:**

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>

#### NEW QUESTION 37

- (Exam Topic 1)

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.

**Answer:** BD

**Explanation:**

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

#### NEW QUESTION 41

- (Exam Topic 1)

You administer an Azure subscription for your company. You plan to deploy a virtual machine (VM) to Azure.

The VM environment must provide 99.95% uptime. A single switch outage must not cause the VM environment to be unavailable. The VM must not be offline due to installation of an update that requires a reboot.

You need to configure the environment.

Solution: Create an availability set with two VMs. Place the VMs in the same update domain. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 43

- (Exam Topic 1)

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: Deploy a Kubernetes cluster that has the desired number of instances of the applications. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/container-service/kubernetes/container-service-intro-kubernetes>

**NEW QUESTION 47**

- (Exam Topic 1)

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

**Answer:** B

**Explanation:**

References:

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

**NEW QUESTION 50**

- (Exam Topic 1)

You have an Azure subscription.

You create an Azure Active Directory (Azure AD) tenant named Tenant1 that has a domain name of tenant1.onmicrosoft.com.

You need to add the contoso.com domain name to Tenant1.

Which DNS record should you add to the contoso.com zone to be able to verify from Azure whether you own the contoso.com domain?

- A. host information (HINFO)
- B. service location (SRV)
- C. standard alias (CNAME)
- D. mail exchanger (MX)

**Answer:** C

**NEW QUESTION 52**

- (Exam Topic 1)

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.

**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		

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References:

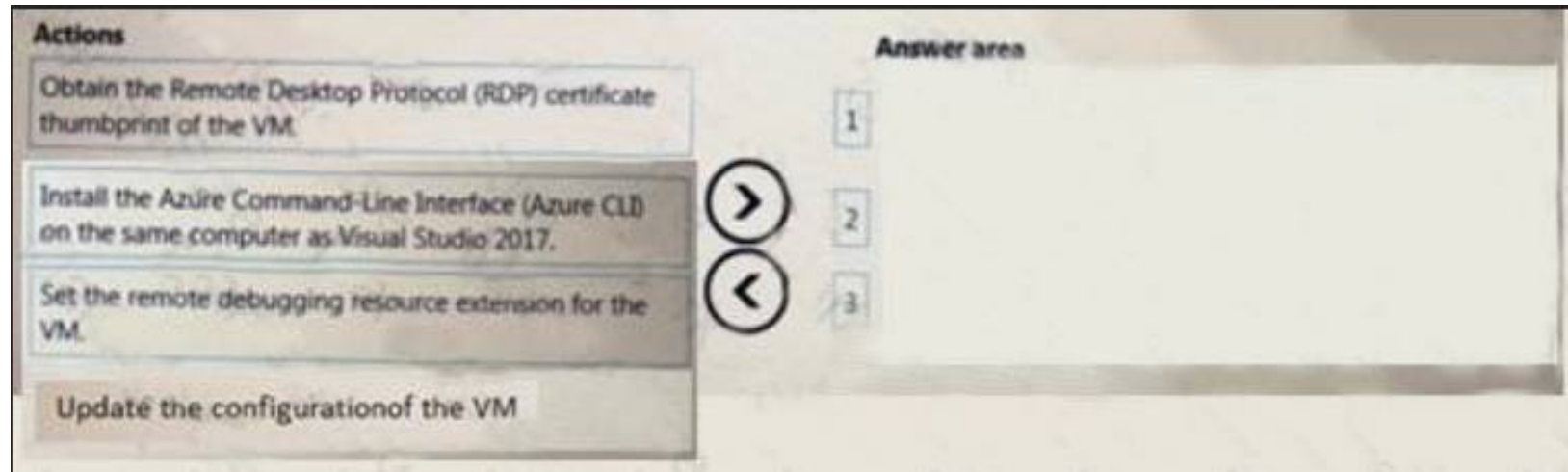
<https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-comparison-with-blob-storage>

**NEW QUESTION 56**

- (Exam Topic 1)

You manage virtual machines (VMs) in Azure. You need to enable remote debugging for the VMs.

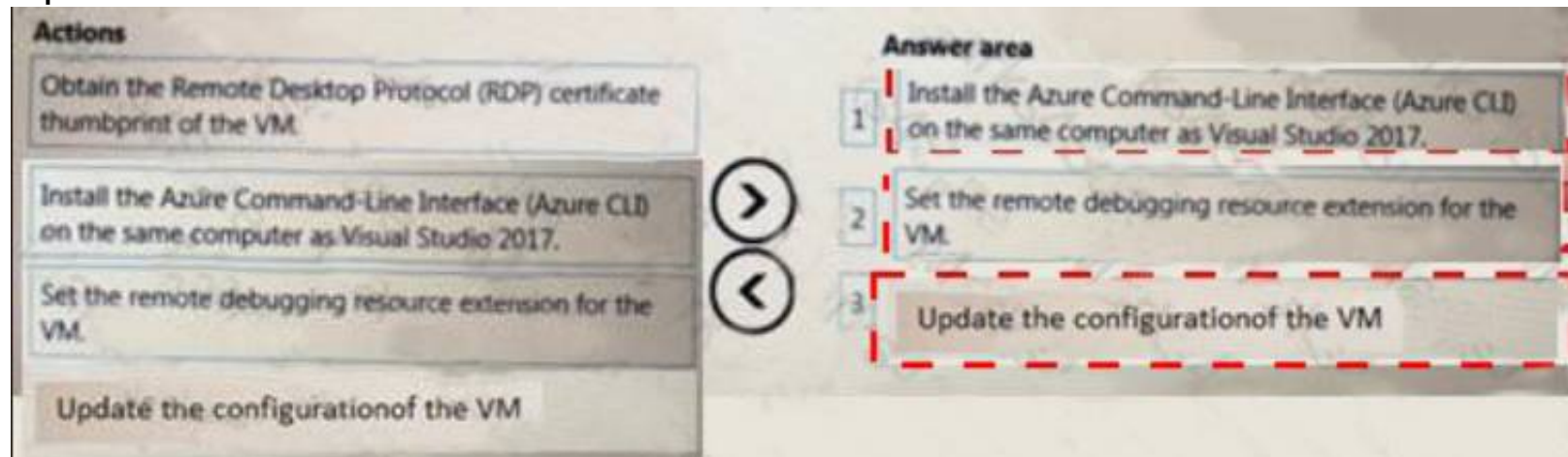
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 60**

- (Exam Topic 1)

You deploy a Kubernetes Azure Container Service cluster.

You need to manage the cluster by using the Kubernetes command-line client.

Solution: You run the following Azure Command-Line Interface (Azure CLI) command:

```
az acs dcos install-cli
```

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 63**

- (Exam Topic 1)

You are working for a global company that has offices in many regions of the world. The company has strict policies that govern how and where application may be deployed.

You have an application that must be deployed to one specific region. The application requires premium storage.

You need to recommend the appropriate policies.

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

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Policy
Enforce deployment in one region.	<div>Allowed locations</div> <div>Enforce tag and value</div> <div>Allowed virtual machine SKUs</div>
Enforce use of premium storage.	<div>Allowed storage account SKUs</div> <div>Allowed resource types</div> <div>Not allowed resource types</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Allowed Locations  
The Allowed Locations policy enables you to restrict the locations that your organization can specify when deploying resources. Its effect is used to enforce your geo-compliance requirements.

Box 2: Allowed Storage Account SKUs  
Allowed Storage Account SKUs: This policy definition has a set of conditions/rules that determine if a storage account that is being deployed is within a set of SKU sizes. Its effect is to deny all storage accounts that do not adhere to the set of defined SKU sizes

NEW QUESTION 67

- (Exam Topic 1)  
You manage a web app named App1 in Azure App Service. App1 is a member of resource group RG1. You plan to use a custom domain name with the web app. The web app must have an Secure Sockets Layer (SSL) certificate associated with the custom domain name. You upload the SSL certificate to Azure and set the thumbprint to a variable named \$thumbprint.  
You need to use the Azure Command-Line Interface (Azure CLI) to bind the SSL certificate with the web app. How should you complete the command? To answer, drag the appropriate parameters to the correct locations.  
Each parameter 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.

Code segments

webapp  
config  
ssl  
deployment  
update

Answer area

az  bind --certificate-thumbprint \$thumbprint --ssl-type "SNI" --name App1 --resource-group RG1

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Code segments

webapp  
config  
ssl  
deployment  
update

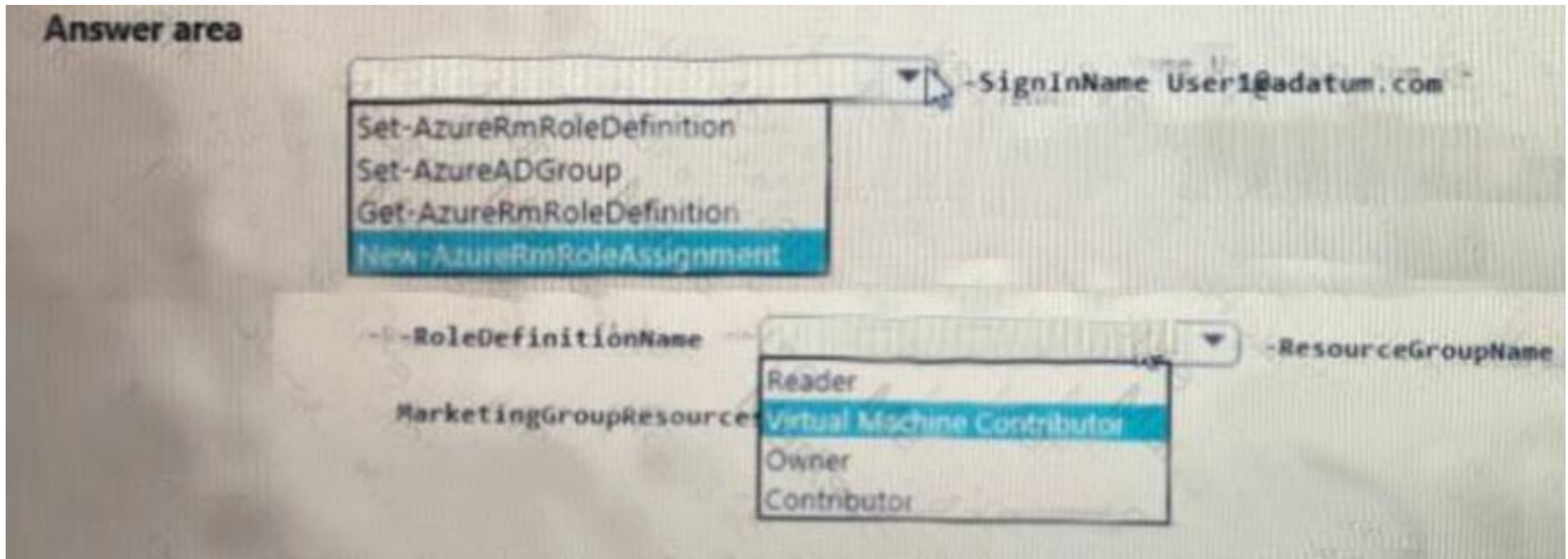
Answer area

az webapp config ssl bind --certificate-thumbprint \$thumbprint --ssl-type "SNI" --name App1 --resource-group RG1

NEW QUESTION 68

- (Exam Topic 1)  
You are an administrator of an Azure subscription for your company. Management asks you to assign the user User1@adatum.com to a role that can create and manage virtual machines (VMs). The user must not be able to manage storage or virtual networks for the MarketingGroupResources resource group. User1 must have no other permissions. You need to implement the requirements.  
How should you complete the Azure PowerShell command? To answer, select the appropriate Azure PowerShell segments in the answer area.  
NOTE: Each correct selection is worth one point.

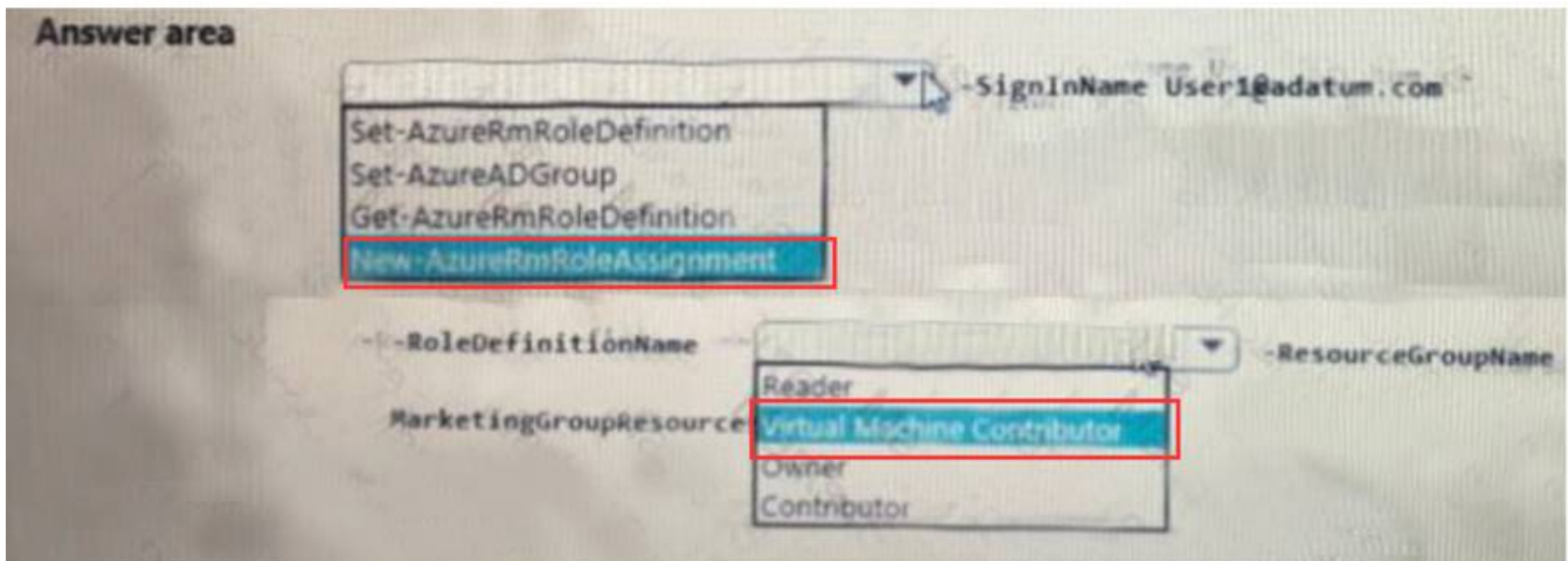




- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



#### NEW QUESTION 70

- (Exam Topic 1)

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment. Your company would like users to be automatically signed in when they are on their corporate desktops that are connected to the corporate network. You need to enable single sign-on (SSO) for company users.

Solution: Install and configure an Azure AD Connect server to use pass-through authentication and select the 'Enable single sign-on' option.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

#### NEW QUESTION 72

- (Exam Topic 1)

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.

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.	

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 75

- (Exam Topic 1)  
You are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing. The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.  
You need to ensure that the image processing application runs correctly every hour. Solution: Use Azure Scheduler to run the image processing application every hour. Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 78

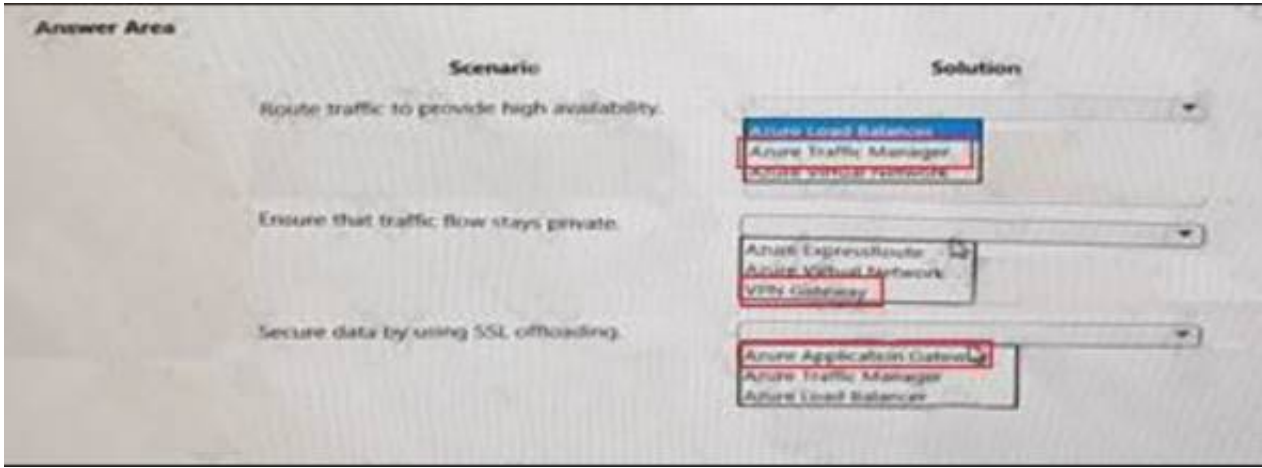
- (Exam Topic 1)  
You manage an application that runs across multiple regions. The application processes sensitive data and is secured using SSL offloading. When users request data, the data must come from the endpoint in their region. Data between Azure resources must not traverse the Internet. You need to recommend networking options for the application.  
What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Scenario	Solution
Route traffic to provide high availability.	<div><div>Azure Load Balancer</div><div>Azure Traffic Manager</div><div>Azure Virtual Network</div></div>
Ensure that traffic flow stays private.	<div><div>Azure ExpressRoute</div><div>Azure Virtual Network</div><div>VPN Gateway</div></div>
Secure data by using SSL offloading.	<div><div>Azure Application Gateway</div><div>Azure Traffic Manager</div><div>Azure Load Balancer</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

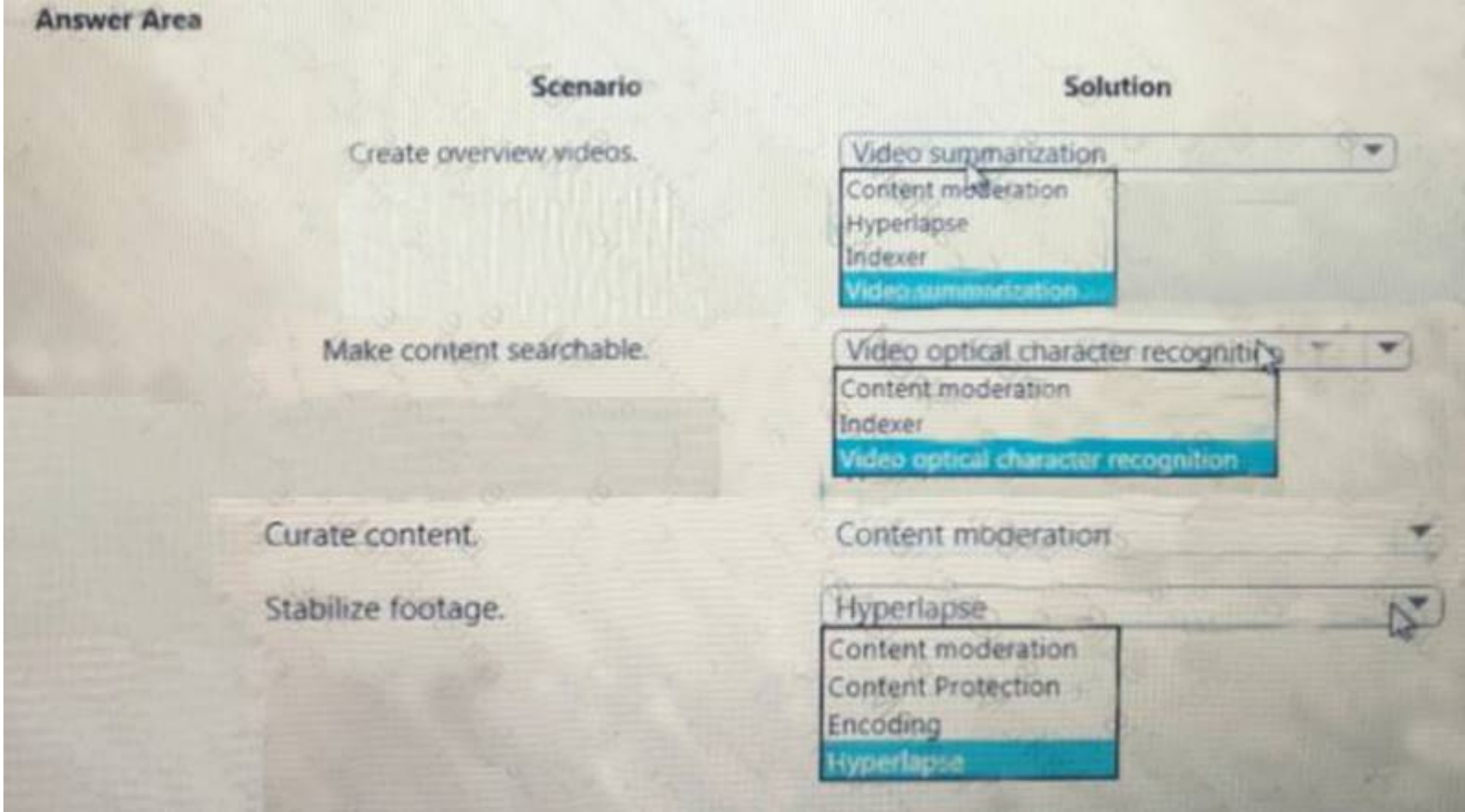
Explanation:



NEW QUESTION 79

- (Exam Topic 1)

You manage a corporate video application. Employees use the application on the corporate network to upload and store training videos in Azure. Employees can watch the videos by using a player or download the videos. You observe that the quality of some videos is poor and some videos have inappropriate language. Videos are also not searchable and cannot be previewed, and no metrics are available. You need to recommend solutions for improving video quality, curating content and analyzing the videos.

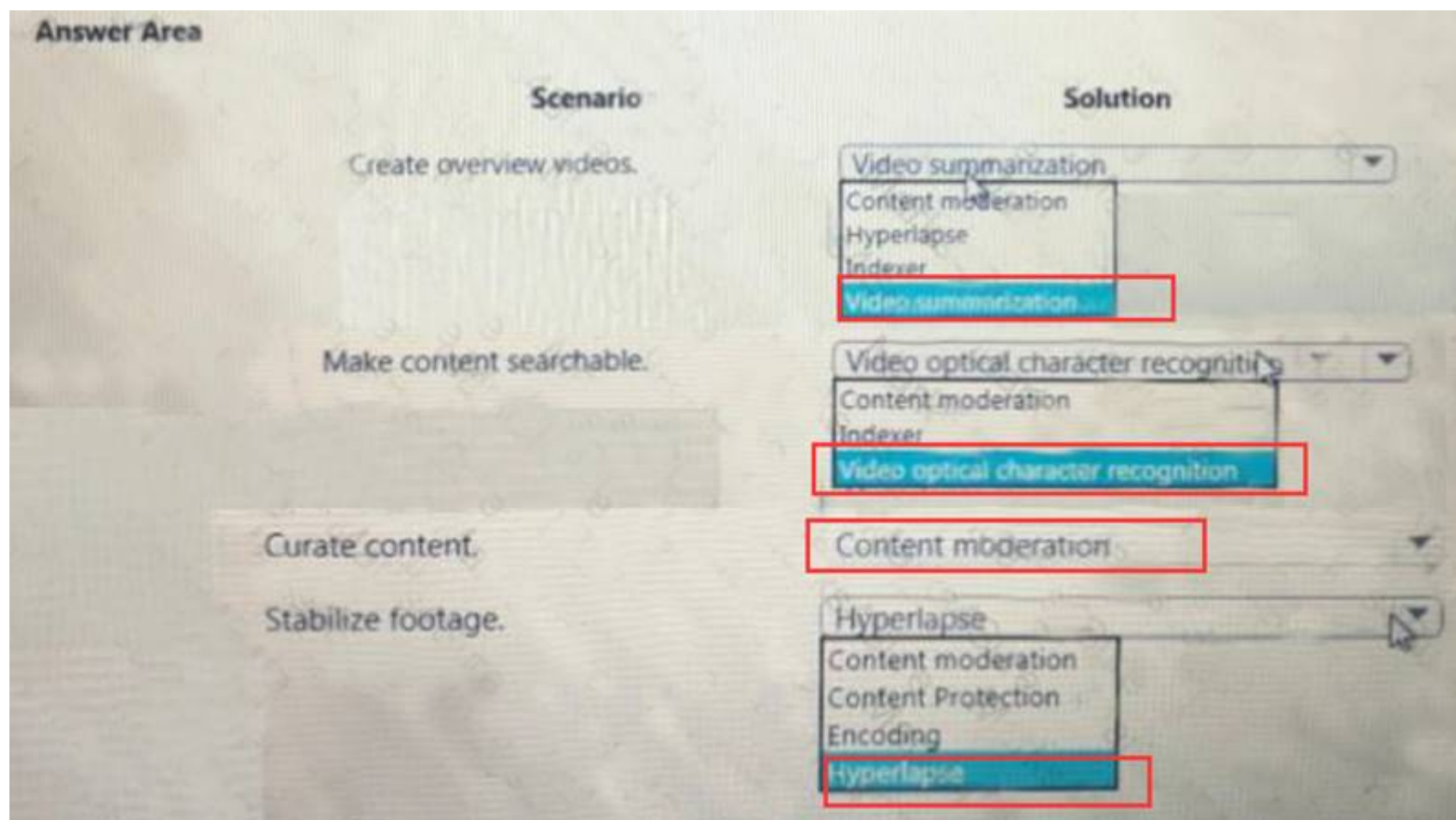


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:





#### NEW QUESTION 84

- (Exam Topic 1)

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. collection size
- B. writes per second
- C. cache size
- D. consistency level
- E. item size
- F. number of regions

**Answer:** D

#### Explanation:

When using data consistency levels of Strong or Bounded Staleness, additional units are consumed to read items.  
<https://docs.microsoft.com/en-us/azure/cosmos-db/request-units>

#### NEW QUESTION 85

- (Exam Topic 1)

You deploy a Kubernetes Azure Container Service cluster.

You need to manage the cluster by using the Kubernetes command-line client.

Solution: You run the following Azure Command-Line Interface (Azure CLI) command:

```
az aks upgrade --kubernetes-version
```

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 89

- (Exam Topic 1)

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 StorSimple storage in the design. Does this solution meet the goal?

- A. Yes
- B. No

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 91

- (Exam Topic 1)

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 Table storage in the design. Does this solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 95

- (Exam Topic 1)  
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?

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

Answer: D

Explanation:  
<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-how-to-reprotect>

NEW QUESTION 98

- (Exam Topic 1)  
A company plans to deploy Linux virtual machines (VM) in Azure.  
The VM configuration and applications must be managed automatically. You need to propose a solution to configure and manage the VMs.  
What should you recommend?

- A. Azure PowerShell
- B. Application Gateway
- C. Chef
- D. Resource Manager Templates

Answer: C

NEW QUESTION 100

- (Exam Topic 1)  
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.

Answer Area

Restriction	Solution
Automatic access expiration	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	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	Conditional Access for Azure management Managed Service Identity (MSI) Privileged Identity Management (PIM) with Role-Based Access Control (RBAC) Role-Based Access Control (RBAC)

- A. Mastered
- B. Not Mastered

Answer: A

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>

#### NEW QUESTION 105

- (Exam Topic 1)

An app uses a virtual network with two subnets. One sub net is used for the application server. The other subnet is used for a database server. A network virtual appliance (NVA) is used as a firewall.

Traffic destined for one specific address prefix is routed to the NVA and then to an on-premises database server that stores sensitive data. A Border Gateway protocol (BGP) route is used for the traffic to the on-premises database server.

You need to recommend a method for creating the user defined route.

Which two options should you recommend? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. For the virtual network configuration use a VPN.
- B. For the next hop type, use virtual network peering.
- C. For the next hop type, use a virtual network gateway.
- D. For the virtual network configuration use Azure ExpressRoute.

**Answer:** CD

#### NEW QUESTION 107

- (Exam Topic 1)

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.

**Answer:** D

#### Explanation:

References:

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

#### NEW QUESTION 108

- (Exam Topic 1)

A company receives over 1000 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?

- A. Language Understanding Intelligent Service (LUIS) programmatic API.
- B. Text Analytics API
- C. Bot Builder SDK
- D. Bing Web Search API

**Answer:** BC

#### 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/>

#### NEW QUESTION 110

- (Exam Topic 1)

You manage an on-premises monitoring platform. You plan to deploy virtual machines (VMs) in Azure.

You must use existing on-premises monitoring solutions for Azure VMs. You must maximize security for any communication between Azure and the on-premises environment.

You need to ensure that Azure alerts are sent to the on-premises solution. What should you do?

- A. Configure a basic authorization webhook.
- B. Configure a token-based authorization webhook.
- C. Enable App Service Authentication for the VMs.



D. Deploy an HDInsight cluster.

**Answer:** B

#### NEW QUESTION 111

- (Exam Topic 1)

A company deploys Microsoft SQL Server on an Azure DS3 \_V2\_Standard virtual machine (VM). You need to modify the disk caching policy. Which Azure PowerShell cmdlet should you run?

- A. Update-AzureRmVm
- B. Set-AzureRMVMOSDisk
- C. Update-Disk
- D. Set-AzureRmVm

**Answer:** B

#### NEW QUESTION 112

- (Exam Topic 1)

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.

Topic	Value
Allowed authentication methods	<div> <div></div> <div> All methods  GET only  GET and POST only  GET, POST, and OPTIONS only </div> </div>
Authorization level	<div> <div></div> <div> Function  Anonymous  Admin </div> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

#### 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>

#### NEW QUESTION 115

- (Exam Topic 1)

You are an administrator of the Azure subscription for your company. You are updating an Azure Resource Manager (ARM) template.

You need to ensure that the JSON file uses the latest version available. Which template element should you modify?

- A. variables
- B. parameters
- C. \$schema
- D. resources

**Answer:** C

#### NEW QUESTION 120

- (Exam Topic 2)

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 need to prevent security attacks based on the Tabular Data Stream (TDS) Protocol. Solution: Use certificate-based authentication for all Azure SQL instances. Does the solution meet the goal?

- A. Yes
- B. No

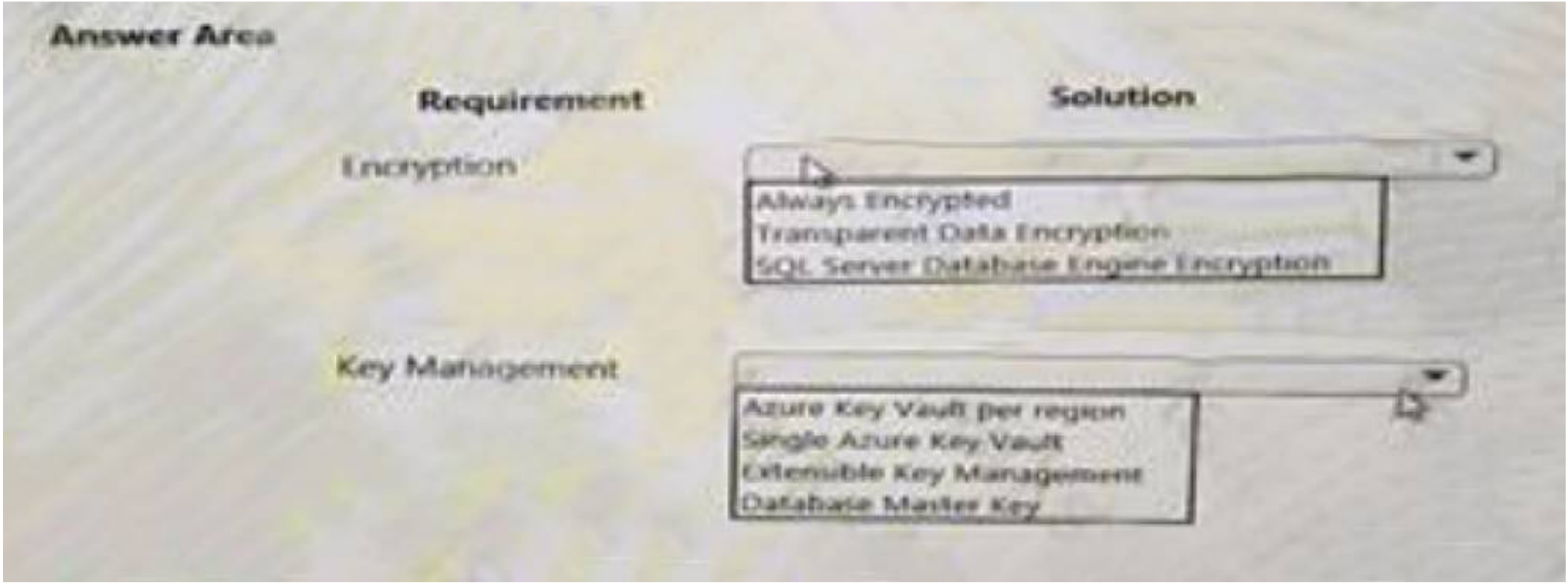
Answer: A

NEW QUESTION 121

- (Exam Topic 2)

You need to ensure that the data security requirements are met.

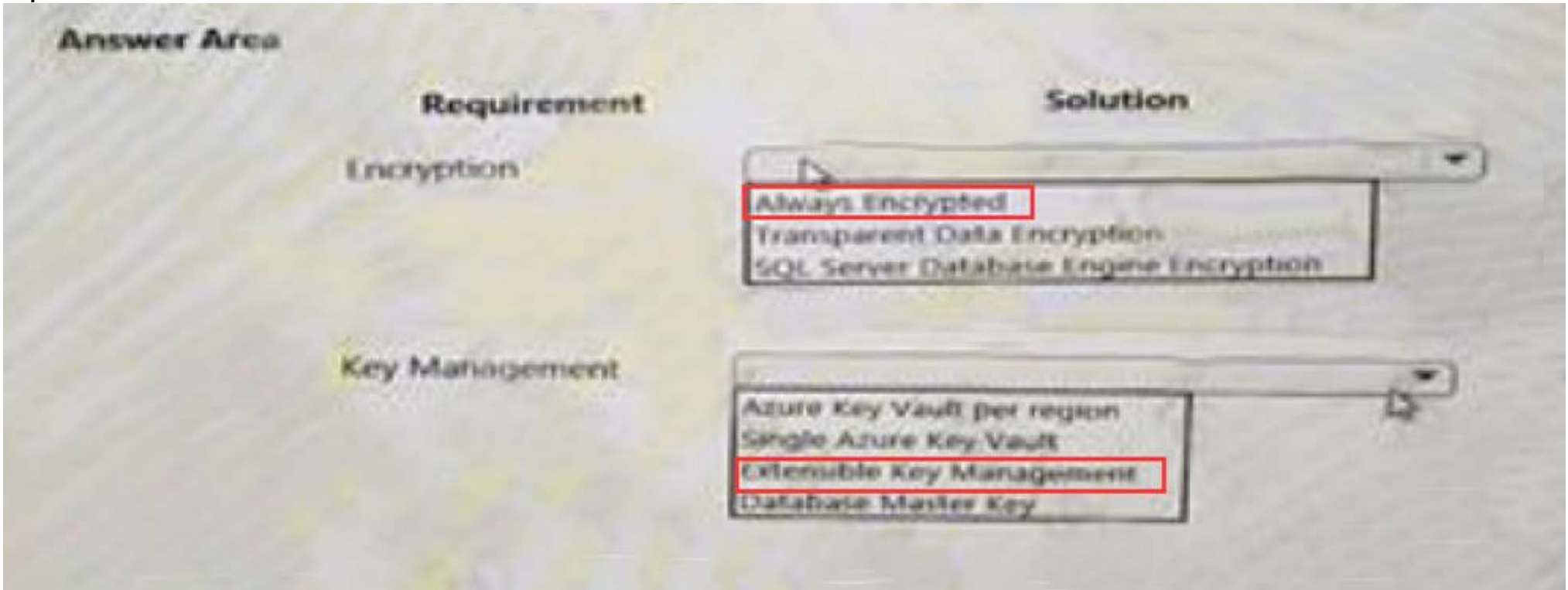
What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

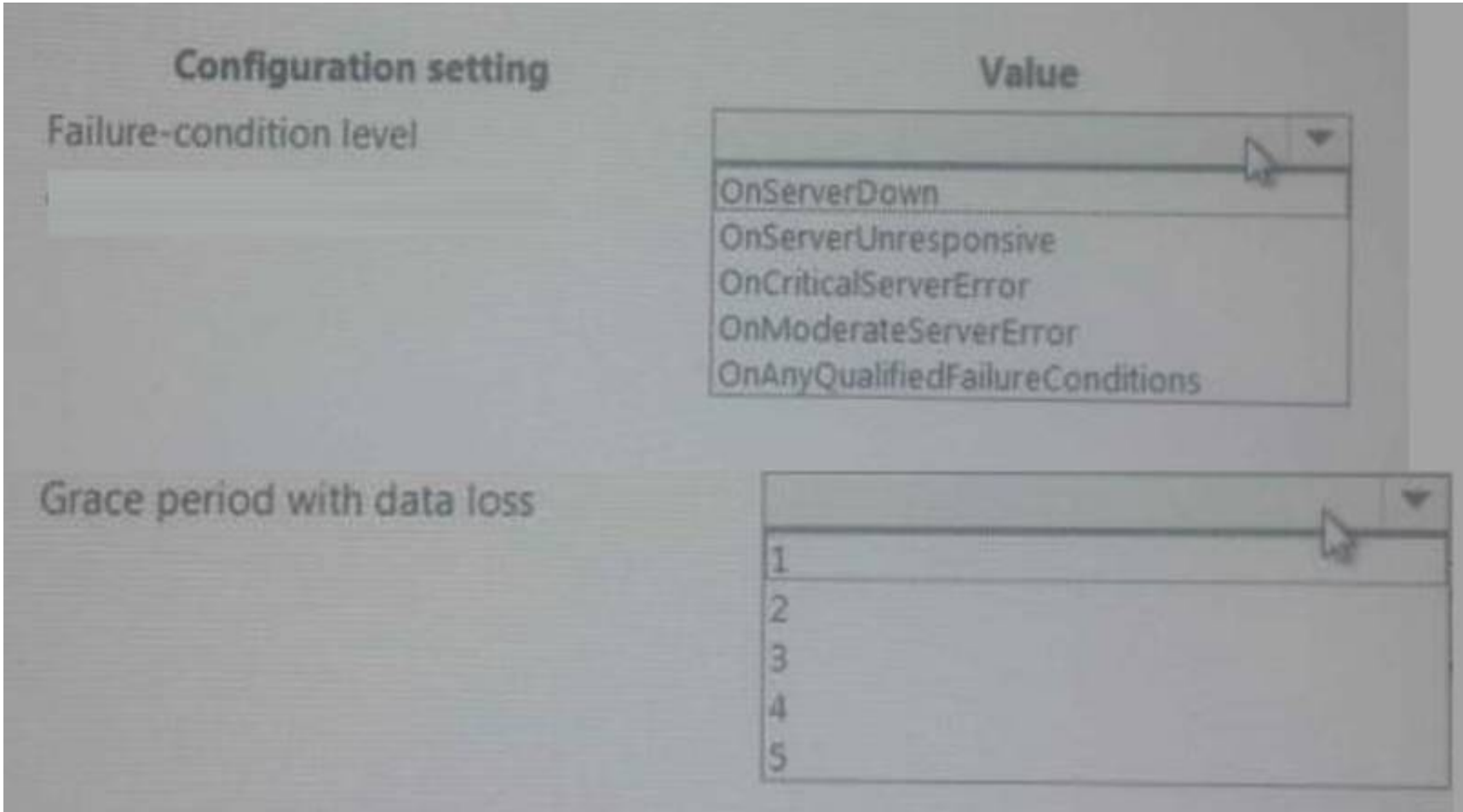


NEW QUESTION 125

- (Exam Topic 2)

You need to configure the Azure SQL Database failover group.

Which values should you recommend for each setting? To answer, select the appropriate options in the answer area.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Failure-condition level – OnCriticalServerError Grace period with data loss = 3

NEW QUESTION 128

- (Exam Topic 2)

You need to prevent security attacks based on the Tabular Data Stream (TDS) Protocol. Solution: Use certificate-based authentication for all Azure SQL instances. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 131

- (Exam Topic 2)

You need to prevent security attacks based on the Tabular Data Stream (TDS) Protocol. Solution: Isolate connection to Azure web Apps and Azure SQL Database instances by implementing a virtual network. Does the solution meet the goal?

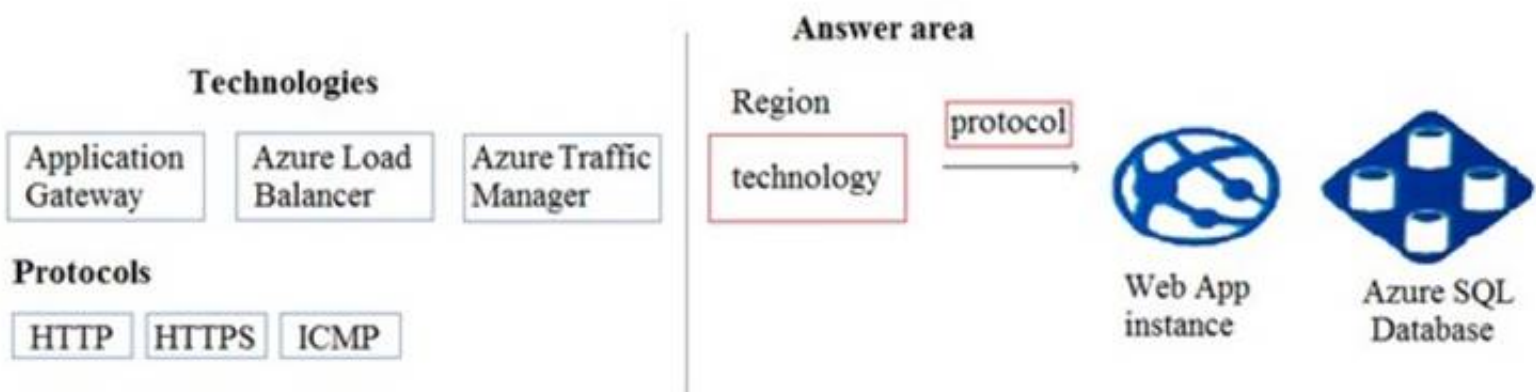
- A. Yes
- B. No

Answer: A

NEW QUESTION 136

- (Exam Topic 2)

You need to design the application architecture for each region. What should you recommend? To answer, drag the appropriate technologies or protocols to the correct locations. Each technology or protocol 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.

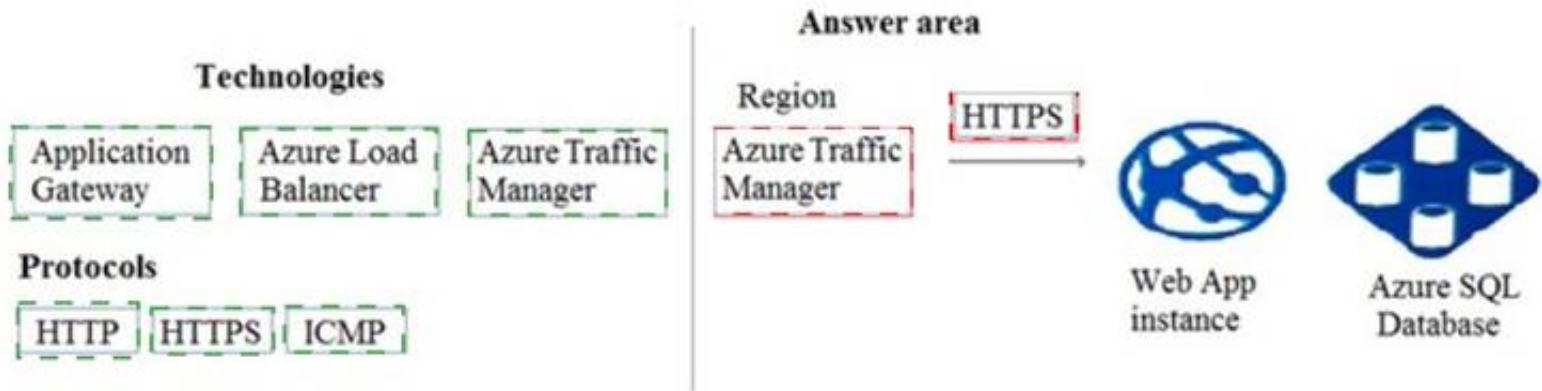




- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 139

- (Exam Topic 2)

You need to prevent security attacks based on the Tabular Data Stream (TDS) Protocol. Solution: Use an Azure Load Balancer for All TDS traffic. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

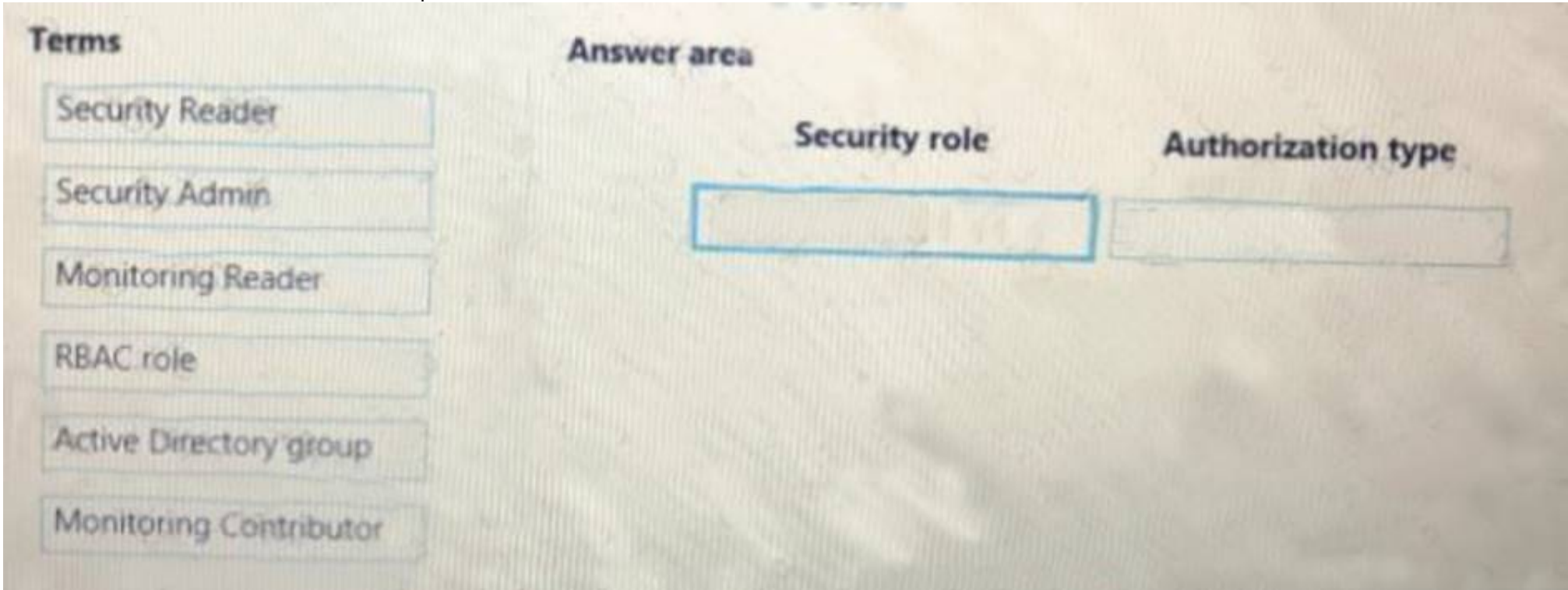
NEW QUESTION 140

- (Exam Topic 2)

You need to ensure that the alerting requirements are met.

To which role should members of the TREY group be added? To answer, drag the appropriate terms to the correct locations. Each term 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.

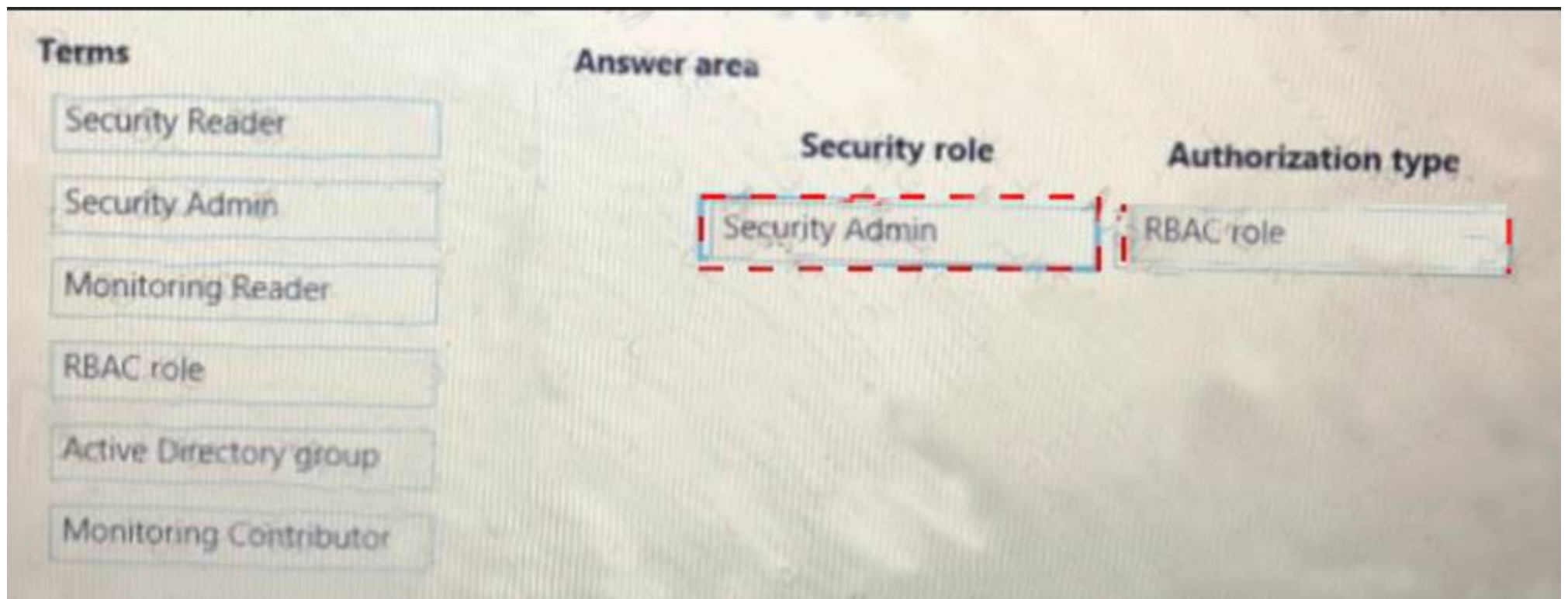
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 144**

- (Exam Topic 2)

You need to ensure that source code and deployment artifact security requirements are met. What should you recommend? To answer, select the appropriate options in the answer area.

**Component**

**Technology**

Mechanism to retrieve users and passwords

▼
Managed Service Identity
TLS mutual authentication
X.509 certificate

Location of data users and passwords

▼
Azure Key Vault
Secret Manager tool
Application configuration file

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Component	Technology
Mechanism to retrieve users and passwords	<div><div>▼</div><div>Managed Service Identity</div><div>TLS mutual authentication</div><div>X.509 certificate</div></div>
Location of data users and passwords	<div><div>▼</div><div>Azure Key Vault</div><div>Secret Manager tool</div><div>Application configuration file</div></div>

NEW QUESTION 149

- (Exam Topic 3)  
You need to select Azure components to meet site performance and availability requirements for the Tailspin Toys e-commerce site.  
Which components should you use?

- A. Azure Batch and Azure Load Balancer
- B. Virtual Machine Scale Set and Azure Load Balancer
- C. Azure App Service Environment and Azure Traffic Manager
- D. Azure App Service and Azure Traffic Manager

Answer: C

NEW QUESTION 152

- (Exam Topic 3)  
You need to recommend a solution architecture for the Tailspin Toys e-commerce website for app tier, data tier, and user authentication.  
Solution:  
? Web site based on Azure App Service  
? App data stored in SQL Database  
? Authentication provided through Azure AD business-to-business (B2B)  
? Solution deployed to multiple Azure regional datacenters  
? Load balancing with Traffic Manager  
Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 156

- (Exam Topic 3)  
You need to recommend a solution architecture for the Tailspin Toys e-commerce website for app tier, data tier, and user authentication.  
Solution:  
? Web App hosted in Azure virtual machines  
? App data stored in Azure SQL Server 2016, hosted in Azure virtual machines  
? Authentication provided through Azure AD business-to-consumer (B2C)  
? Solution deployed to multiple Azure regional datacenters  
? Load balancing with Azure Traffic Manager  
Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 159

- (Exam Topic 3)  
You need to select an Azure compute provider for the Tailspin Toys Customer Analyzer app. What should you use?

- A. Microsoft Flow
- B. Azure Login Apps
- C. Azure Functions
- D. Azure Batch



Answer: B

NEW QUESTION 163

- (Exam Topic 3)

You need to select an Azure identity provider for the Tailspin Toys e-commerce website. What should you use?

- A. Azure AD business-to-business (B2B)
- B. Azure AD business-to-consumer (B2C)
- C. Azure AD
- D. Microsoft account

Answer: B

NEW QUESTION 165

- (Exam Topic 3)

You need to select an Azure compute provider for the Tailspin Toys Customer Analyzer app. What should you use?

- A. Microsoft Flow
- B. Virtual Machine Scale Sets (VMSS)
- C. Azure Functions
- D. Azure Virtual Machines

Answer: B

NEW QUESTION 167

- (Exam Topic 3)

You need to recommend a solution architecture for the Tailspin Toys Customer Analyzes app.

What should you do recommend? To answer, drag the appropriate solutions to the correct components. Each 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.

Answer Area

Solutions

Azure Automation

Azure Functions

Azure Batch

SQL Server in Azure virtual machines

Azure SQL Database

Azure Data Lake store

Component

Tailspin Toys Customer Analyzer app processing

Tailspin Toys Customer Analyzer app data

Solution

Solution

Solution

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Solutions

Azure Automation

Azure Functions

Azure Batch

SQL Server in Azure virtual machines

Azure SQL Database

Azure Data Lake store

Component

Tailspin Toys Customer Analyzer app processing

Tailspin Toys Customer Analyzer app data

Solution

Azure Batch

Azure SQL Database

NEW QUESTION 170

- (Exam Topic 4)

You need to ensure that the customer-facing website meets the scaling and deployment requirements. What should you do?

- A. Use Traffic Manager with load balancing enable
- B. Deploy websites in a single region.
- C. Use Traffic Manager with load balancing enable
- D. Deploy web apps in multiple regions that are nearest to the website visitor populations
- E. Implement operational procedures to quickly deploy additional local instances of the web apps when you are notified by Traffic Manager
- F. Deploy and maintain multiple web app instances in the largest Azure datacenters in North America, Europe, and Asia.

**Answer:** B

**Explanation:**

From scenario: Customers must have 24-hour access to media downloads regardless of their location or time zone.

**NEW QUESTION 172**

- (Exam Topic 4)

You need to recommend strategies for storing data.

Which services should you recommend? To answer, select the appropriate storage technology for each data type in the answer area.

Data Type	Storage Technology
Media metadata	<div> <div></div> <div> Azure Queue Storage service Azure Media Services Azure Mobile Services Database using REST </div> </div>
Images	<div> <div></div> <div> Azure Queue Storage service Azure Media Services Azure Mobile Services SQL Database using REST </div> </div>
Audio	<div> <div></div> <div> Azure Queue Storage service Azure Media Services Azure Mobile Services SQL Database using REST </div> </div>
Video	<div> <div></div> <div> Azure Queue Storage service Azure Media Services Azure Mobile Services SQL Database using REST </div> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* Media metadata: Azure Queue Storage Service

Scenario: Media metadata must be stored in Azure Table storage.

Azure Queues provide a uniform and consistent programming model across queues, tables, and BLOBs – both for developers and for operations teams.

\* Images: Azure Mobile Services

Scenario: Media files must be stored in Azure BLOB storage.

You can use Azure Mobile Services to access images from mobile devices.

\* Audio: Azure Media Services

\* Video: Azure Media Services

Microsoft Azure Media Services is an extensible cloud-based platform that enables developers to build scalable media management and delivery applications. Media Services is based on REST APIs that enable you to securely upload, store, encode and package video or audio content for both on-demand and live streaming

delivery to various clients (for example, TV, PC, and mobile devices).

References: <https://azure.microsoft.com/en-us/documentation/articles/media-services-overview/>

#### NEW QUESTION 173

- (Exam Topic 4)

You need to analyze Lucerne's performance monitoring solution.

Which three applications should you monitor? Each correct answer presents a complete solution.

- A. The Lucerne Media-D application
- B. The data mining application
- C. The Lucerne Media-W application
- D. The Lucerne Media-M app
- E. The Lucerne Media-N app

**Answer:** CDE

#### Explanation:

Monitor the web application and the mobile apps.

C: Lucerne Media W – a web application that delivers media by using any browser

D: Lucerne Media M – a mobile app that delivers media by using Windows Phone 8.1 E: Lucerne Media N – a mobile app that delivers media by using an Android device

\* Scenario:

/ Lucerne Publishing must be able to monitor the performance and usage of its customer-facing app.

/ Customers must be able to access all data by using a web application. They must also be able to access data by using a mobile app that is provided by Lucerne Publishing.

#### NEW QUESTION 178

- (Exam Topic 4)

You need to recommend the appropriate strategy for the data mining application. What should you recommend?

- A. Configure multiple on-premises cluster that runs multiple Azure virtual machines to connect by using an Azure virtual private network (VPN).
- B. Configure an on-premises cluster that runs multiple Azure virtual machines that is located in the central office.
- C. Configure a cluster of high-performance computing virtual machines (VMs) that use the largest number of core
- D. Ensure that the VMs are instantiated in different Azure datacenters that are distributed across the same affinity group.
- E. Configure a cluster of high-performance computing virtual machines (VMs) that use the largest number of core
- F. Ensure that the VMs are instantiated in the same Azure datacenter.

**Answer:** B

#### Explanation:

Scenario: Data Mining

Lucerne Publishing constantly mines its data to identify customer patterns. The company plans to replace the existing on-premises cluster with a cloud-based solution.

\* The data mining solution must support the use of hundreds to thousands of processing cores.

\* Minimize the number of virtual machines by using more powerful virtual machines. Each virtual machine must always have eight or more processor cores available.

\* Allow the number of processor cores dedicated to an analysis to grow and shrink automatically based on the demand of the analysis.

\* Virtual machines must use remote memory direct access to improve performance.

#### NEW QUESTION 181

- (Exam Topic 4)

You need to upload video to the company's Azure environment.

What should you do?

- A. Create a site-to-site VPN connection.
- B. Write directly to the storage REST APIs.
- C. Create an ExpressRoute connection.
- D. Use the Azure Import/Export service to move the data.

**Answer:** C

#### Explanation:

/ Media files must be stored in Azure BLOB storage.

/ Media uploads must have fast data transfer rates (low latency) without the need to upload the data offline.

#### NEW QUESTION 185

- (Exam Topic 4)

You need to recommend an appropriate solution for the data mining requirements. Which solution should you recommend?

- A. Design a schedule process that allocates tasks to multiple virtual machines, and use the Azure Portal to create new VMs as needed.
- B. Use Azure HPC Scheduler Tools to schedule jobs and automate scaling of virtual machines.



- C. Use Traffic Manager to allocate tasks to multiple virtual machines, and use the Azure Portal to spin up new virtual machines as needed.  
 D. Use Windows Server HPC Pack on-premises to schedule jobs and automate scaling of virtual machines in Azure.

**Answer:** B

**Explanation:**

\* Scenario: Virtual machines:

? The data mining solution must support the use of hundreds to thousands of processing cores.

? Minimize the number of virtual machines by using more powerful virtual machines. Each virtual machine must always have eight or more processor cores available.

? Allow the number of processor cores dedicated to an analysis to grow and shrink automatically based on the demand of the analysis.

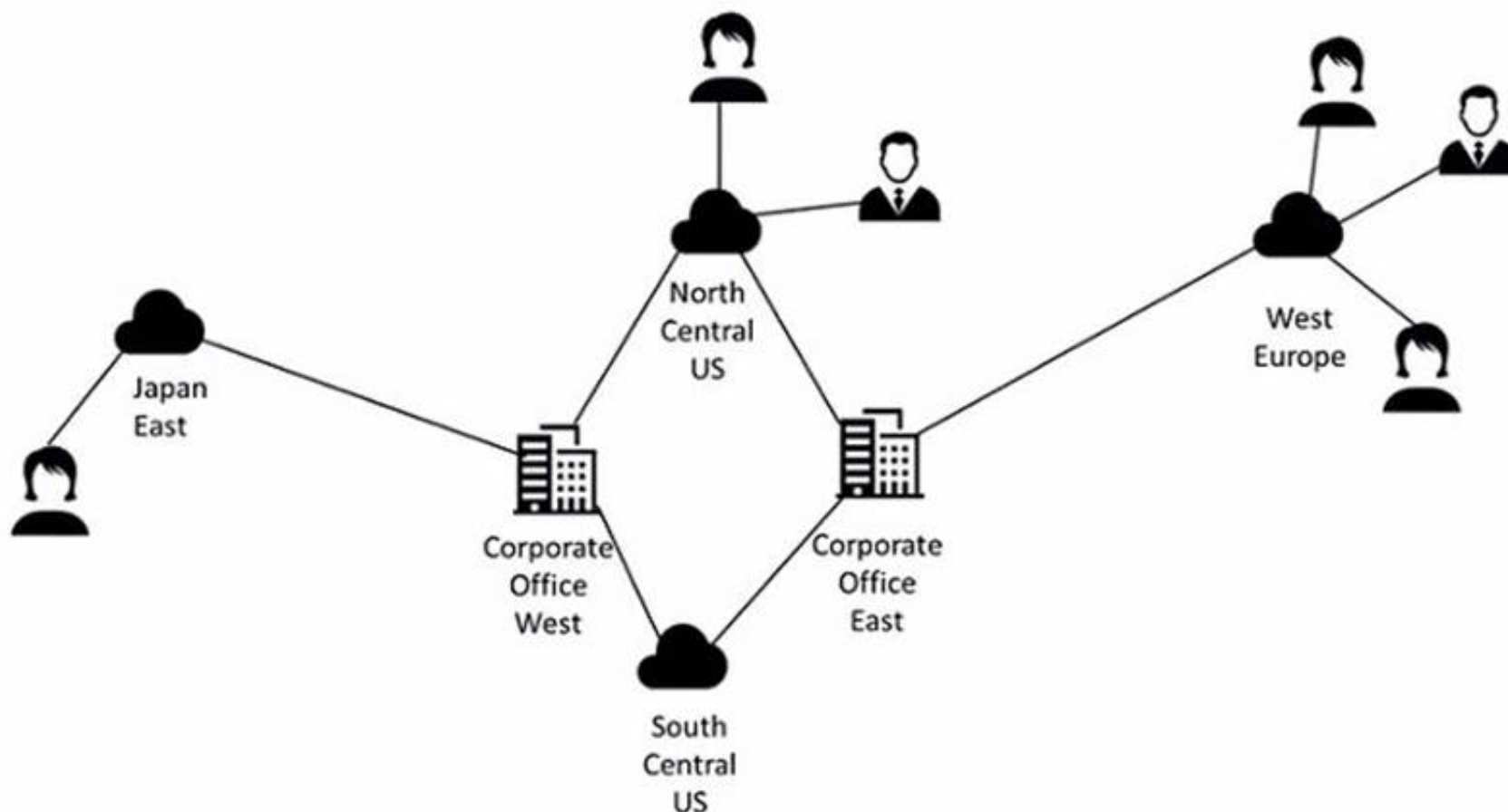
? Virtual machines must use remote memory direct access to improve performance. Task scheduling:

The solution must automatically schedule jobs. The scheduler must distribute the jobs based on the demand and available resources.

**NEW QUESTION 190**

- (Exam Topic 4)

The company has two corporate offices. Customers will access the websites from datacenters around the world.



You need to architect the global website strategy to meet the business requirements. Use the drop-down menus to select the answer choice that answers each question.

**Answer Area**

Where should you deploy the websites?

South Central US  
 Corporate Office West and Corporate Office East  
 East Asia, North Central US, and West Europe

Where should you store the media?

South Central US  
 Corporate Office West and Corporate Office East  
 East Asia, North Central US, and West Europe

Where should you deploy the data warehouse?

South Central US  
 East Asia, North Central US, and West Europe  
 Corporate Office West and Corporate Office East

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* Scenario: The customer-facing website must have access to all ad copy and media.

#### NEW QUESTION 192

- (Exam Topic 5)

You need to recommend a technology for processing customer pickup requests. Which technology should you recommend?

- A. Notification hub
- B. Queue messaging
- C. Mobile Service with push notifications
- D. Service Bus messaging

**Answer: D**

#### Explanation:

Service Bus queues are part of a broader Azure messaging infrastructure that supports queuing as well as publish/subscribe, Web service remoting, and integration patterns.

Service Bus Queue support Push-style API (while Azure Queue messaging does not). Incorrect:

Not A: Notification Hub is only used to push notification, not for processing requests. Not B As a solution architect/developer, you should consider using Azure Queues when:

\* Your application must store over 80 GB of messages in a queue, where the messages have a lifetime shorter than 7 days.

\* Your application wants to track progress for processing a message inside of the queue. This is useful if the worker processing a message crashes. A subsequent worker can then use that information to continue from where the prior worker left off.

You require server side logs of all of the transactions executed against your queues. Not C: To process the messages we do not need push notification.

#### NEW QUESTION 197

- (Exam Topic 5)

You need to recommend the steps required to deploy the Northwind Electric Cars website.

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

Actions	Answer Area
Publish an application with a WebJob backend to an Azure web app.	
Scale the WebJob separately from the website to spread web traffic loads.	
Publish a frontend site to an Azure web app, and publish a WebJob backend to a separate Azure web app.	⬅️ ➡️
Schedule the WebJob to run at non-peak times.	⬆️ ⬆️
Create an Azure storage account.	

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/app-service-web/websites-dotnet-webjobs-sdk-get-started>

#### NEW QUESTION 201

- (Exam Topic 5)

You need to design the authentication solution for the NorthRide app. Which solution should you use?

- A. Azure Active Directory Basic with multi-factor authentication for the cloud and on-premises users.
- B. Active Directory Domain Services with mutual authentication
- C. Azure Active Directory Premium and add multi-factor authentication the for cloud users
- D. Active Directory Domain Services with multi-factor authentication

**Answer: C**

#### Explanation:

\* Scenario: The NorthRide app must use an additional level of authentication other than the employee's password.

\* Azure Multi-Factor Authentication is the multi-factor authentication service that requires users to also verify sign-ins using a mobile app, phone call or text message. It is available to use with Azure Active Directory, to secure on-premise resources with the Azure Multi-Factor Authentication Server, and with custom applications and directories using the SDK. References:

NEW QUESTION 205

- (Exam Topic 5)  
You need to set up the traffic prediction system. Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

ACTIONS

Create a machine learning workspace.

Create a new experiment that uses an algorithm to predict future customer demand.

Train and evaluate data models.

Create a new experiment that uses an algorithm to minimize driving time.

Upload historical employee timesheet data.

Upload Historical customer pickup data.

ANSWER AREA

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

To create this credit risk assessment solution, we follow these steps:  
? Create a Machine Learning workspace  
? Upload existing data  
? Create an experiment  
? Train and evaluate the models  
? Deploy the web service  
? Access the web service  
From scenario: Predictive Routing:  
\* An Azure solution must be used for prediction systems.  
\* Predictive analytics must be published as a web service and accessible by using the REST API. References:  
<https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-walkthrough-develop-predictive-sol>

NEW QUESTION 208

- (Exam Topic 5)  
You need to design the notification service for the customer-facing mobile app. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Update the mobile service script to send push notifications.

Connect the mobile app to the mobile service.

Push a notification to the target applications.

Configure a notification hub.

Connect the mobile app to the notification hub.

Configure Mobile Services for push notifications.

Answer Area

- A. Mastered
- B. Not Mastered



Answer: A

**Explanation:**

Azure Notification Hubs provide an easy-to-use infrastructure that enables you to send mobile push notifications from any backend (in the cloud or on-premises) to any mobile platform.

Configuration steps include:

1. Configure your Notification Hub
2. Connecting your app to the Notification Hub
3. Send notification from your back-end

You can send notifications using Notification Hubs from any back-end using the REST interface. You do this through a script, not a configuration of Mobile Services. Use Java or PHP for the script.

References:

<https://azure.microsoft.com/en-us/documentation/articles/notification-hubs-windows-store-dotnet-get-started/#se>

**NEW QUESTION 209**

- (Exam Topic 6)

You need to persist the API messages.

Which five steps should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions**

Use Windows PowerShell to obtain the Node.js packages.

Import the modules and assign values to the namespace and access key environment.

Set the queue size limit to 10 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.

Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.

Create a ServiceBusService object.

Call the createQueueNotExists method.

Use Windows PowerShell to obtain the Python packages.

**Answer Area**



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

## Actions

- Use Windows PowerShell to obtain the Node.js packages.
- Import the modules and assign values to the namespace and access key environment.
- Set the queue size limit to 10 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Create a ServiceBusService object.
- Call the createQueueNotExists method.
- Use Windows PowerShell to obtain the Python packages.

## Answer Area

- Use Windows PowerShell to obtain the Node.js packages.
- Import the modules and assign values to the namespace and access key environment.
- ← Create a ServiceBusService object. →
- Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods. ←
- Call the createQueueNotExists method.

### NEW QUESTION 212

- (Exam Topic 6)

You need to support the disaster recovery requirements of the web application and API. Which two actions should you perform? Each correct answer presents part of the solution.

- A. Deploy the API and web application to multiple locations.
- B. Configure automated backups of the API and web application.
- C. Create a new Azure SQL Data Warehouse and connect it to the web application and API.
- D. Enable Application Insights for the web application and API.
- E. Create an Azure Redis Cache for the web application and API.

**Answer:** AB

### NEW QUESTION 216

- (Exam Topic 6)

You need to support web and mobile application secure logons. Which technology should you use?

- A. Azure Active Directory B2B
- B. OAuth 1.0
- C. LDAP
- D. Azure Active Directory B2C

**Answer:** D

### NEW QUESTION 220

- (Exam Topic 7)

A company has 10 on-premises SQL databases. The company plans to move the databases to SQL Server 2012 that runs in Azure Infrastructure-as-a-Service (IaaS). After migration, the databases will support a limited number of Azure websites in the same Azure Virtual Network.

You have the following requirements:

- \* You must restore copies of existing on-premises SQL databases to the SQL servers that run in Azure IaaS.
  - \* You must be able to manage the SQL databases remotely.
  - \* You must not open a direct connection from all of the machines on the on-premises network to Azure.
  - \* Connections to the databases must originate from only five Windows computers. You need to configure remote connectivity to the databases.
- Which technology solution should you implement?

- A. Azure Virtual Network site-to-site VPN
- B. Azure Virtual Network multi-point VPN
- C. Azure Virtual Network point-to-site VPN
- D. Azure ExpressRoute

**Answer:** C

#### Explanation:

A point-to-site VPN would meet the requirements.

References: <https://azure.microsoft.com/en-us/documentation/articles/vpn-gateway-point-to-site-create/>

NEW QUESTION 221

- (Exam Topic 7)

You are designing a distributed application for Azure.

The application must securely integrate with on-premises servers.

You need to recommend a method of enabling Internet Protocol security (IPsec)-protected connections between on-premises servers and the distributed application.

What should you recommend?

- A. Azure Access Control
- B. Azure Content Delivery Network (CDN)
- C. Azure Service Bus
- D. Azure Site-to-Site VPN

Answer: D

Explanation:

IPsec can be used on Azure Site-to-Site VPN connections. Distributed applications can used the IPsec VPN connections to communicate.

References: <https://msdn.microsoft.com/en-us/library/azure/dn133798.aspx>

NEW QUESTION 222

- (Exam Topic 7)

You are developing an application that will send push notifications to registered devices. You perform the following actions:

\*set up a notification hub with the correct push credentials

\*register the device application with the platform notification system and the hub

\*update the back-end to send notifications.

You need to debug push notifications by sending test notifications to registered devices in a controlled way. For each action, which tool should you implement? To answer, drag the appropriate tool to the correct action.

Each tool 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.

Tools

Azure Portal

Microsoft Visual Studio Server Explorer

Service Bus Explorer tool

Azure SDK

Answer Area

Action	Tool
Use several metric for monitoring	tool
Run per-platform diagnostics	tool
Limit test notifications to 10 clients at a time	tool

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: <https://msdn.microsoft.com/library/dn530751.aspx>

NEW QUESTION 227

- (Exam Topic 7)

You are the Azure architect for an organization. You are working with C-level management to assign Azure role-based access control roles to a team within the organization. A single director oversees two teams, a development team and a test team. The director is wholly responsible for the organization's Azure account, including billing, infrastructure, and access control. The director is the only member of the team with the ability to alter access controls.

You have the following requirements:

\* Members of the development team must be able to view or alter Azure infrastructure to support application development.

\* Members of the test team must be able to view Azure infrastructure to support test cases.

You need to assign built-in Azure role-based access control roles to team members within the organization. Which role should you assign to each team member?

To answer, drag the appropriate role to the correct team

member. Each role 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.

Roles

Owner

Contributor

Reader

Editor

Publisher

Answer Area

Team Member	Role
The director	Role
Members of the development team	Role
Members of the test team	Role



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:  
<http://azure.microsoft.com/en-us/documentation/articles/role-based-access-control-configure/>

NEW QUESTION 231

- (Exam Topic 7)

You have a website that displays text, pictures, video files, and audio files. The website processes requests from countries and regions all over the world. You plan to migrate the website to the Azure platform.

The website has the following requirements:

- \* Encode, store, and stream audio and video at scale.
- \* Load-balance communications with the website instance that is closest to the user's location.
- \* Deliver content with high-bandwidth and low latency.

You need to recommend the technologies to implement the solution.

Which technologies should you recommend? To answer, drag the appropriate technology to the correct requirement. Each technology 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.

Technologies

TrafficManager

MediaServices

Multifactor Authentication

Service Bus

Azure Active Directory

Azure Content Delivery Network

Windows Network Load Balancing

Azure Blob Service

Answer Area

Requirement	Technology
Encode media	<div>Technology</div>
Load-balanced communication	<div>Technology</div>
Deliver content	<div>Technology</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

\* MediaServices  
Azure Media Services is being used to power consumer and enterprise streaming solutions worldwide. Combining powerful and highly scalable cloud-based encoding, encryption and steaming components, Azure Media Services is helping customers with valuable and premium video content to easily reach larger audiences on today's most popular digital devices, such as tablets and mobile phones.

\* TrafficManager  
\* Azure Content Delivery Network  
The Azure Content Delivery Network (CDN) is designed to send audio, video, applications, images, and other files faster and more reliably to customers using servers that are closest to each user. This dramatically increases speed and availability, resulting in significant user experience improvements.

References:  
<http://azure.microsoft.com/en-us/services/cdn/> <http://azure.microsoft.com/en-gb/services/media-services/> <http://azure.microsoft.com/en-us/services/traffic-manager/>

NEW QUESTION 236

- (Exam Topic 7)

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

Answer: A

NEW QUESTION 241

- (Exam Topic 7)

You design an Azure application that processes images. The maximum size of an image is 10 MB. The application includes a web role that allows users to upload

images and a worker role with multiple instances that processes the images. The web role communicates with the worker role by using an Azure Queue service. You need to recommend an approach for storing images that minimizes storage transactions. What should you recommend?

- A. Store images in Azure Blob service
- B. Store references to the images in the queue.
- C. Store images in the queue.
- D. Store images in OneDrive attached to the worker role instance
- E. Store references to the images in the queue.
- F. Store images in local storage on the web role instance
- G. Store references to the images in the queue.

Answer: A

Explanation:

Azure Queues provide a uniform and consistent programming model across queues, tables, and BLOBs – both for developers and for operations teams. Microsoft Azure blob storage can be used to store the image data, the application can use a worker role in Azure to perform background processing tasks on the images, how the application may use shared access signatures to control access to the images by users. Azure blobs provide a series of containers aimed at storing text or binary data. Block blob containers are ideal for streaming data, while page blob containers can be used for random read/write operations. References: <https://msdn.microsoft.com/en-gb/library/ff803365.aspx> <https://msdn.microsoft.com/en-us/library/azure/hh767287.aspx>

NEW QUESTION 244

- (Exam Topic 7)  
Contoso, Ltd., uses Azure websites for their company portal sites. Admin users need enough access to effectively perform site monitoring or management tasks. Management tasks do not include assigning permissions to other users. You need to grant admin access to a group of 10 users. How should you configure the connection? To answer, drag the role or object to the correct connection setting. Each item 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.

Connection Settings

Contributor

Reader

Website

Application

Azure Active Directory

Active Directory Domain Services

Answer Area

Connection Setting	Role or Object
Role	<div>Connection Setting</div>
Resource	<div>Connection Setting</div>
Provider	<div>Connection Setting</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:  
<http://azure.microsoft.com/blog/2015/01/05/rbac-and-azure-websites-publishing/>

NEW QUESTION 245

- (Exam Topic 7)  
You have an Azure website that runs on several instances. You have a WebJob that provides additional functionality to the website. The WebJob must run on all instances of the website. You need to ensure that the WebJob runs even when the website is idle for long periods of time. How should you create and configure the WebJob object? To answer, select the appropriate options in the answer area.

## Answer Area

Requirement	Action
Create the WebJob object	<div> <div></div> <div> Create the WebJob as a scheduled task.  Create the WebJob as an on-demand task.  Create the WebJob as a continuously running task. </div> </div>
Configure the WebJob object	<div> <div></div> <div> Enable AlwaysOn for the website.  Enable AlwaysOn for the database.  Configure the WebJob to run continuously. </div> </div>

- A. Mastered  
B. Not Mastered

**Answer:** A

### Explanation:

\* You can run programs or scripts in WebJobs in your App Service web app in three ways: on demand, continuously, or on a schedule.  
\* For continuous WebJobs there is an important feature called "always on" which is only available for a Standard Website, this will make sure your Website and WebJob are always up.  
References:  
<http://azure.microsoft.com/en-us/documentation/articles/web-sites-create-web-jobs/>

## NEW QUESTION 246

- (Exam Topic 7)

A company has multiple Azure subscriptions. It plans to deploy a large number of virtual machines (VMs) into Azure. You install the Azure PowerShell module, but you are unable connect to all of the company's Azure subscriptions. You need to automate the management of the Azure subscriptions. Which two Azure PowerShell cmdlets should you run?

- A. Get-AzurePublishSettingsFile  
B. Import-AzurePublishSettingsFile  
C. Add-AzureSubscription  
D. Import-AzureCertificate  
E. Get-AzureCertificate

**Answer:** AB

### Explanation:

Before you start using the Windows Azure cmdlets to automate deployments, you must configure connectivity between the provisioning computer and Windows Azure. You can do this automatically by downloading the PublishSettings file from Windows Azure and importing it. To download and import publish settings and subscription information  
References: <https://msdn.microsoft.com/en-us/library/dn385850%28v=nav.70%29.aspx>

## NEW QUESTION 251

- (Exam Topic 7)

You have a web application on Azure.  
The web application does not employ Secure Sockets Layer (SSL).  
You need to enable SSL for your production deployment web application on Azure.  
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

- Upload the deployment package and certificate.
- Get an SSL certificate from a certification authority (CA).
- Self-sign the SSL certificate.
- Modify the service definition and configuration files.
- Connect to the role instance by using HTTPS.

### Answer Area





- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:  
<http://azure.microsoft.com/en-gb/documentation/articles/cloud-services-configure-ssl-certificate/>

NEW QUESTION 252

- (Exam Topic 7)  
You design an Azure web application. The web application is accessible by default as a standard cloudapp.net URL.  
You need to recommend a DNS resource record type that will allow you to configure access to the web application by using a custom domain name.  
Which DNS record type should you recommend?

- A. SRV
- B. MX
- C. CNAME
- D. A

Answer: C

Explanation:

A CNAME record maps a specific domain, such as contoso.com or www.contoso.com, to a canonical domain name. In this case, the canonical domain name is the <myapp>.cloudapp.net domain name of your Azure hosted application. Once created, the CNAME creates an alias for the <myapp>.cloudapp.net. The CNAME entry will resolve to the IP address of your <myapp>.cloudapp.net service automatically, so if the IP address of the cloud service changes, you do not have to take any action.  
Incorrect: Not D:  
\* Since an A record is mapped to a static IP address, it cannot automatically resolve changes to the IP address of your Cloud Service.  
\* An A record maps a domain, such as contoso.com or www.contoso.com, or a wildcard domain such as \*.contoso.com, to an IP address. In the case of an Azure Cloud Service, the virtual IP of the service. So the main benefit of an A record over a CNAME record is that you can have one entry that uses a wildcard, such as \*.contoso.com, which would handle requests for multiple sub-domains such as mail.contoso.com, login.contoso.com, or www.contso.com.  
References:

NEW QUESTION 253

- (Exam Topic 7)  
You need to implement resource security and authentication.  
For each requirement, which solution should you implement? To answer, drag the appropriate solution to the correct requirement. Each 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.

Solutions

Azure Active Directory Connect

Microsoft Account Authentication

Azure Active Directory B2C

Active Directory Federations Services

Answer Area

Requirement	Solution
Enable user sign in for employees	<div>Solution</div>
Enable user sign in for partners	<div>Solution</div>
Enable datacenter connectivity for the DataViewer application	<div>Solution</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solutions

Azure Active Directory Connect

Microsoft Account Authentication

Azure Active Directory B2C

Active Directory Federations Services

Answer Area

Requirement	Solution
Enable user sign in for employee:	Azure Active Directory Connect
Enable user sign in for partners	Active Directory Federations Services
Enable datacenter connectivity for the DataViewer application	Active Directory Federations Services

NEW QUESTION 256

- (Exam Topic 7)  
You are evaluating an Azure application. The application includes the following elements:  
\*A web role that provides the ASP.NET user interface and business logic  
\*A single SQL database that contains all application data

Each webpage must receive data from the business logic layer before returning results to the client. Traffic has increased significantly. The business logic is causing high CPU usage.

You need to recommend an approach for scaling the application. What should you recommend?

- A. Store the business logic results in Azure Table storage.
- B. Vertically partition the SQL database.
- C. Move the business logic to a worker role.
- D. Store the business logic results in Azure local storage.

**Answer: C**

**Explanation:**

For Cloud Services in Azure applications need both web and worker roles to scale well. References: <https://msdn.microsoft.com/en-us/library/azure/dn574746.aspx>

**NEW QUESTION 259**

- (Exam Topic 7)

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

**Answer: CD**

**Explanation:**

B: 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

C: 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

References: <https://azure.microsoft.com/en-gb/documentation/articles/cdn-how-to-use/> <https://github.com/Azure/azure-content/blob/master/articles/cdn-map-content-to-custom-domain.md> <https://github.com/Azure/azure-content/blob/master/articles/cdn-map-content-to-custom-domain.md>

**NEW QUESTION 260**

- (Exam Topic 7)

You have an Azure subscription that contains 10 VMs. All of the VMs are set to use the Basic VM tier and are located in the West US region. The storage account used for the VMs is set to Locally Redundant replication. The VMs are in an availability set.

You plan to deploy several web apps in Azure that will retrieve data from the virtual machines. The web apps will use a new App Service plan.

You need to ensure that the web apps remain available if the hardware in data center fails. The solution must minimize the Azure costs associated with bandwidth utilization.

What should you include in the solution?

- A. Create a new storage account that is set to Geo-Redundant replicatio
- B. Move the virtual machines to the new storage accoun
- C. Set the App Service for the web apps to use the default app service.
- D. Set the App Service plan for the web apps to any region other than West US region.
- E. Create a new storage account that is set to Zone Redundant replicatio
- F. Move the virtual machines to the new storage accoun
- G. Set the App Service plan for the web apps to use the default app service.
- H. Set the App Service plan for the web apps to use the default app servic
- I. Configure ExpressRoute for the Azure subscription.

**Answer: A**

**NEW QUESTION 263**

- (Exam Topic 7)

You are designing an Azure application that processes graphical image files. The graphical Images are processed in batches by remote applications that run on multiple servers.

You have the following requirements:

\*The application must remain operational during batch-processing operations.

\*Users must be able to roll back each image to a previous version.

You need to ensure that each remote application has exclusive access to an image while the application processes the image. Which type of storage should you use to store the images?

- A. Table service
- B. Queue service
- C. Blob service
- D. A single Azure VHD that is attached to the web role

**Answer: C**

**Explanation:**

\* Blob Leases allow you to claim ownership to a Blob. Once you have the lease you can then update the Blob or delete the Blob without worrying about another process changing it underneath you. When a Blob is leased, other processes can still read it, but any attempt to update it will fail. You can update Blobs without taking a lease first, but you do run the chance of another process also attempting to modify it at the same time.

\* You can opt to use either optimistic or pessimistic concurrency models to manage access to blobs and containers in the blob service.

References:

<http://justazure.com/azure-blob-storage-part-8-blob-leases/>

<http://www.azurefromthetrenches.com/?p=1371>

**NEW QUESTION 266**

- (Exam Topic 7)

An application currently resides on an on-premises virtual machine that has 2 CPU cores, 4 GB of RAM, 20 GB of hard disk space, and a 10 megabit/second network connection.

You plan to migrate the application to Azure. You have the following requirements:

\* You must not make changes to the application.

\* You must minimize the costs for hosting the application.

You need to recommend the appropriate virtual machine instance type. Which virtual machine tier should you recommend?

- A. Network Optimized (A Series)
- B. General Purpose Compute, Basic Tier (A Series)
- C. General Purpose Compute, Standard Tier (A Series)
- D. Optimized Compute (D Series)

**Answer: B**

**Explanation:**

General purpose compute: Basic tier

An economical option for development workloads, test servers, and other applications that don't require load balancing, auto-scaling, or memory-intensive virtual machines.

CPU core range: 1-8 RAM range: 0.75 – 14 GB

Disk size: 20-240 GB References:

**NEW QUESTION 271**

- (Exam Topic 7)

You are designing an Azure application that will use a worker role. The worker role will create temporary files.

You need to minimize storage transaction charges. Where should you create the files?

- A. In Azure local storage
- B. In Azure Storage page blobs
- C. On an Azure Drive
- D. In Azure Storage block blobs

**Answer: A**

**Explanation:**

Local storage is temporary in Azure. So, if the virtual machine supporting your role dies and cannot recover, your local storage is lost! Therefore, Azure developers will tell you, only volatile data should ever be stored in local storage of Azure.

References:

<http://www.intertech.com/Blog/windows-azure-local-file-storage-how-to-guide-and-warnings/>

<http://blog.codingoutloud.com/2011/06/12/azure-faq-can-i-write-to-the-file-system-on-windows-azure/>

**NEW QUESTION 275**

- (Exam Topic 7)

You are designing an Azure application that provides online backup storage for hundreds of media files. Each file is larger than 1GB.

The data storage solution has the following requirements:

\* be capable of storing an average of 2 terabytes (TB) of data for each user

\* support sharing of data between all Microsoft Azure instances

\* provide random read/write access

You need to recommend a durable data storage solution. What should you recommend?

- A. store data in a VHD file
- B. Azure Page Blob
- C. Azure Block Blob
- D. local storage on the VM

**Answer: B**

**NEW QUESTION 278**

- (Exam Topic 7)

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



Answer: C

Explanation:

The Service Bus Relay is designed for the use-case of taking existing Windows Communication Foundation (WCF) web services and making those services securely accessible to solutions that reside outside the corporate perimeter without requiring intrusive changes to the corporate network infrastructure. Such Service Bus relay services are still hosted inside their existing environment, but they delegate listening for incoming sessions and requests to the cloud-hosted Service Bus.

References:

http://azure.microsoft.com/en-gb/documentation/articles/cloud-services-dotnet-hybrid-app-using-service-bus-rel

NEW QUESTION 282

- (Exam Topic 7)

Resources must authenticate to an identity provider.

You need to configure the Azure Access Control service.

What should you recommend? To answer, select the appropriate responses for each requirement in the answer area.

Answer Area

Action	Requirement
You must distribute an authorization token to a client when it authenticates against Windows Live ID.	<div><div></div><div>Distribute an Identity Provider (IDP) token. Distribute an Access Control Service token. Distribute an Application Programming Interface (API) token</div></div>
You must integrate an application with the Azure Access Control service.	<div><div></div><div>Use WS-Trust. Use Kerberos.</div></div>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1:

\* Token – A user gains access to an RP application by presenting a valid token that was issued by an authority that the RP application trusts.

\* Identity Provider (IP) – An authority that authenticates user identities and issues security tokens, such as Microsoft account (Windows Live ID), Facebook, Google, Twitter, and Active Directory. When Azure Access

Control (ACS) is configured to trust an IP, it accepts and validates the tokens that the IP issues. Because ACS can trust multiple IPs at the same time, when your application trusts ACS, you can your application can offer users the option to be authenticated by any of the IPs that ACS trusts on your behalf.

Box 2: WS-Trust is a web service (WS-\*) specification and Organization for the Advancement of Structured Information Standards (OASIS) standard that deals with the issuing, renewing, and validating of security tokens, as well as with providing ways to establish, assess the presence of, and broker trust relationships between participants in a secure message exchange. Azure Access Control (ACS) supports WS-Trust 1.3.

Incorrect: ACS does not support Kerberos. References:

NEW QUESTION 286

- (Exam Topic 7)

You administer the virtual environment for Contoso, Ltd. You configure and provision a new virtual machine (VM).

You need to add the existing VM to an existing availability set.

How should you complete the Azure PowerShell command? To answer, select the appropriate Azure PowerShell cmdlet from each list in the answer area.

Answer Area

Get-AzureVM  
New-AzureVM  
Update-AzureVM

-ServiceName contosodc1 -Name contosodc 1 |

Set-AzureAvailabilitySet  
Set-AzureAffinityGroup  
Update-AzureVMImage

-AvailabilitySetName contosodcs |

Get-AzureVM  
New-AzureVM  
Update-AzureVM

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

## Answer Area

▼

Get-AzureVM  
New-AzureVM  
Update-AzureVM

-ServiceName contosodc1 -Name contosodc 1 |

▼

Set-AzureAvailabilitySet  
Set-AzureAffinityGroup  
Update-AzureVMImage

-AvailabilitySetName contosodcs |

▼

Get-AzureVM  
New-AzureVM  
Update-AzureVM

### NEW QUESTION 291

- (Exam Topic 7)

You are designing an Azure web application. The solution will be used by multiple customers. Each customer has different business logic and user interface requirements. Not all customers use the same version of the .NET runtime.

You need to recommend a deployment strategy. What should you recommend?

- A. Deploy with multiple web role instances.
- B. Deploy each application in a separate tenant.
- C. Deploy all applications in one tenant.
- D. Deploy with multiple worker role instances.

**Answer: B**

#### Explanation:

There are two types of tenant environments. The simplest type is a single-tenant application where one customer has 100% dedicated access to an application's process space. A single Tenant Applications has a separate, logical instance of the application for each customer or client. A single tenant application is much more predictable and stable by its nature since there will never be more than one dedicated customer at any point in time in that VM. That customer has all of its users accessing that dedicated instance of the application.

References:

<http://sanganakauthority.blogspot.in/2011/12/multi-tenancy-and-windows-azure.html>

### NEW QUESTION 296

- (Exam Topic 8)

You need to provide support for updating the financial risk models in the WGBCreditCruncher app. Which technology should you use?

- A. a multi-threaded C# console app that uses an Azure Queue storage
- B. ASP.NET WebHooks that are triggered by Azure WebJobs
- C. a Message Passing Interface (MPI) application that runs in Azure Batch
- D. ASP.NET Web APIs that run in Azure Service Fabric

**Answer: D**

### NEW QUESTION 298

- (Exam Topic 8)

You are implementing the new security requirements for the WGBCreditCruncher app.

You need to explain the security process flow to another developer. You start by navigating to the web app as it is presented to the user.

Which five actions must 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.

## Actions

OAuth creates an ID token and returns it to the application's HTTPS Reply URL.

Azure AD validates the Reply URL against the registered Reply URL that was configured in the Azure Portal.

The browser sends a GET to the AzureAD authorization endpoint to request an ID token to include the client ID and reply URL in the query parameters.

The user initiates a sign in to the app by clicking a sign in link.

The JavaScript client extracts the token from the response.

Azure AD creates an ID token and returns it to the application's HTTPS Reply URL.

The browser sends a POST to the Azure AD authorization endpoint to request a claim token to include the client ID and reply URL in the query parameters.

## Answer Area



- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-authentication-scenarios>

### NEW QUESTION 302

- (Exam Topic 8)

You need to support processing for the WGBLeaseLeader app. Which technology should you use?

- A. Azure Event Hubs
- B. Azure Service Fabric
- C. Azure Service Bus Queues
- D. Azure Storage Queues

**Answer:** D

### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compare>

### NEW QUESTION 303

- (Exam Topic 8)

You need to implement the loan aggregation process for the WGBLoanMaster app. Which technology should you use?

- A. Azure virtual machine
- B. Azure Cloud Service worker role
- C. Azure Batch
- D. Azure WebJob

**Answer:** C

### NEW QUESTION 304

- (Exam Topic 9)



You need to configure identity synchronization. What should you create?

- A. a second Azure Active Directory Connect sync server
- B. backups of all on-premises server farms
- C. backups of all Azure VMs
- D. a second Azure Active Directory Connect staging server
- E. a second Azure Active Directory directory

**Answer:** D

**Explanation:**

/ High availability is required for account synchronization services.

/ Any configuration changes to account synchronization must be tested without disrupting the services. References:

<https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-topologies#staging>

**NEW QUESTION 308**

- (Exam Topic 9)

You need to assign permissions for tier four employees. Which role should you assign?

- A. Security Manager
- B. Website Contributor
- C. Owner
- D. Network Contributor

**Answer:** A

**NEW QUESTION 311**

- (Exam Topic 9)

You need to implement the security requirements. What should you implement?

- A. the GraphAPI to query the directory
- B. LDAP to query the directory
- C. single sign-on
- D. user certificates

**Answer:** C

**Explanation:**

References:

<https://blogs.msdn.microsoft.com/plankytronixx/2010/11/27/single-sign-on-between-on-premise-apps-windows->

**NEW QUESTION 313**

- (Exam Topic 9)

You need to implement testing for the DataManager mobile application.

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

Actions	Answer Area
Create a URL ping test in Application Insights.	
In the Microsoft Visual Studio, create a web test.	
Open the .webtest file and start recording.	⬅️ ⬆️
Create a multi-step web test and upload a .webtest file to Application Insights.	➡️ ⬆️
Open the URL ping test and set test locations.	
Upload a URL ping list to Application Insights.	
In Microsoft Visual Studio, create a web performance test project.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/application-insights/app-insights-monitor-web-app-availability#multi-ste>

**NEW QUESTION 317**

- (Exam Topic 10)

You are designing an Azure Web App.

All users must authenticate by using Active Directory Domain Services (AD DS) credentials.

You need to recommend an approach to enable single sign-on to the application for domain-authenticated users.

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

- A. Use Forms authentication to generate claims.
- B. Use the SQL membership provider in the web application.
- C. Use the Azure AD Authentication library in the web application
- D. Use Active Directory Federation Services (AD FS) to generate claims.

**Answer:** CD

**NEW QUESTION 321**

- (Exam Topic 10)

You plan to deploy an application as a cloud service. The application uses a virtual network to extend your on-premises network into Azure. You need to configure a site-to-site VPN for cross-premises network connections.

Which two objects should you configure? Each correct answer presents part of the solution.

- A. Dynamic routing gateway
- B. VPN gateway
- C. External-facing IPv6 address
- D. External-facing IPv4 address

**Answer:** BD

**NEW QUESTION 324**

- (Exam Topic 10)

You are designing a Windows Azure application that will store data in two SQL Azure databases. The application will insert data in both databases as part of a single logical operation.

You need to recommend an approach for maintaining data consistency across the databases. What should you recommend?

- A. Execute database calls on parallel threads

- B. Wrap the database calls in a single transaction scope.
- C. Use Microsoft Distributed Transaction Coordinator (MSDTC).
- D. Handle errors resulting from the database calls by using compensatory logic.

**Answer:** B

**Explanation:**

The TransactionScope class establishes an ambient transaction in .NET. (An “ambient transaction” is one that lives in the current thread.) All connections opened within the TransactionScope participate in the transaction. If different databases participate, the transaction is automatically elevated to a distributed transaction. The outcome of the transaction is controlled by setting the scope to complete to indicate a commit.

Note: Elastic database transactions for SQL DB enable applications to make atomic changes to data stored in several different SQL Databases.

Elastic database transactions targets the following scenarios:

\* Multi-database applications in Azure: With this scenario, data is vertically partitioned across several databases in SQL DB such that different kinds of data reside on different databases. Some operations require changes to data which is kept in two or more databases. The application uses elastic database transactions to coordinate the changes across databases and ensure atomicity.

Etc.

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

**NEW QUESTION 325**

- (Exam Topic 10)

You work for a company named Contoso, Ltd. The network contains an on premises Active Directory domain that has Active Directory Federation Services (AD FS). Contoso uses an internally developed claims App1. You implement directory synchronization with Azure Active Directory (Azure AD).

You need to recommend which configuration should be performed to Single-Sign-On to App1 to authenticated by Azure AD. Which two configuration should you include in the recommendation?

- A. Azure AD as claims provided trust
- B. App1 as a claims provider
- C. Azure AD as relying party trust
- D. App1 as relying party trust

**Answer:** BC

**NEW QUESTION 327**

- (Exam Topic 10)

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 are designing the deployment of resources in Azure. You plan to use templates to customize deployment options.

You need to ensure that Azure services are deployed and updated identically. Solution: You customize the parameters element of the template.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

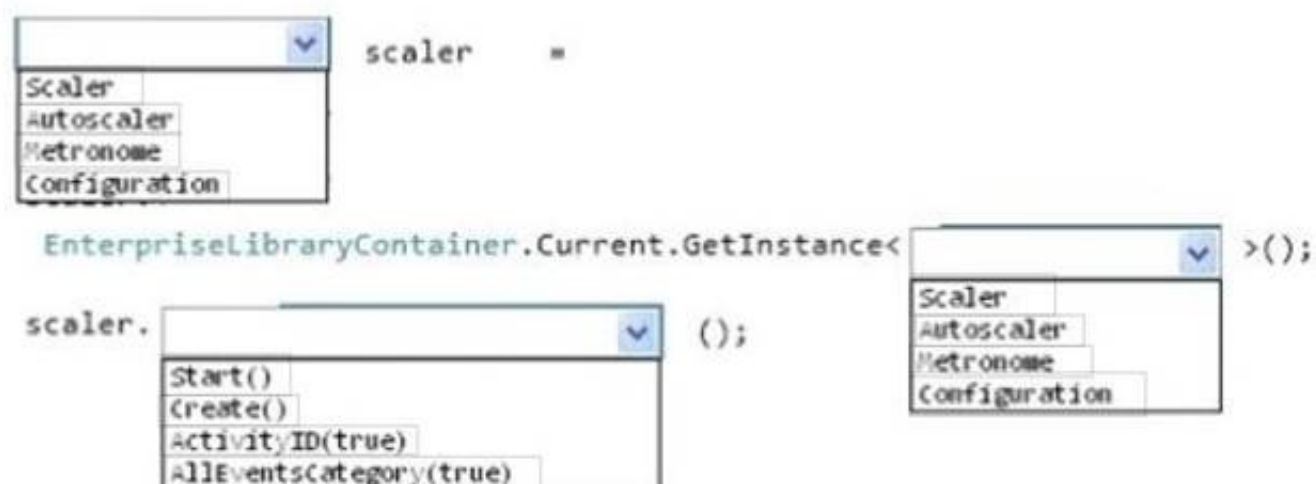
**NEW QUESTION 331**

- (Exam Topic 10)

A company creates an Azure worker role to manage products. The number of customers who inquire about how many products are in inventory rapidly increases. You need to ensure that the worker role can scale to accommodate the increased workload.

How should you complete the relevant code? To answer, select the appropriate option or options in the answer area.

**Answer Area**



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Example code: autoscaler =

EnterpriseLibraryContainer.Current.GetInstance<Autoscaler>(); autoscaler.Start();

References: [https://msdn.microsoft.com/en-us/library/hh680914\(v=pandp.50\).aspx](https://msdn.microsoft.com/en-us/library/hh680914(v=pandp.50).aspx)



### NEW QUESTION 334

- (Exam Topic 10)

You manage an Azure virtual network that hosts 15 virtual machines (VMs) on a single subnet, which is used for testing a line of business (LOB) application. The application is deployed to a VM named TestWebServiceVM. You need to ensure that TestWebServiceVM always starts by using the same IP address. You need to achieve this goal by using the least amount of administrative effort. What should you do?

- A. Use the Management Portal to configure TestWebServiceVM
- B. Use RDP to configure TestWebServiceVM.
- C. Run the Set-AzureStaticVNetIP PowerShell cmdlet.
- D. Run the Get-AzureReservedIP PowerShell cmdlet.

**Answer:** C

#### Explanation:

The Set-AzureStaticVNetIP cmdlet sets the static virtual network (VNet) IP address information for a virtual machine object.

References:

<https://docs.microsoft.com/en-us/powershell/module/azure/set-azurestaticvnetip?view=azuresmps-4.0.0>

### NEW QUESTION 336

- (Exam Topic 10)

You are reviewing an Azure Resource Manager (ARM) template that is used to deploy a Web App to multiple regions. The template contains the following JSON code:

```
{
  "$schema" : "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion" : "1.0.0.0",
  "parameters" : {
    "siteLocations" : {
      "type" : "array",
      "defaultValue" : [
        "West Europe", "East US", "West US"
      ]
    }
  },
  "resources" : [
    {
      "apiVersion" : "2014-06-01",
      "name" : "[concat('site',copyIndex())]",
      "type" : "Microsoft.Web/sites",
      "location" : "[parameters('siteLocations')[mod(copyIndex(),3)]]",
      "properties" : {
        "name" : "[concat('site',copyIndex())]",
      },
      "copy" : {
        "name" : "siteCopy",
        "count" : "[mul(length(parameters('siteLocations')),4)]"
      }
    }
  ]
}
```

How should you implement the deployment configuration? To answer, select the appropriate option in the answer area.

## Answer Area

To how many regions will the Web App be deployed?

	▼
9	
12	
15	
81	

To which region will two sites named Site5 and Site8 be deployed?

	▼
West Europe	
East US	
West US	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

## Answer Area

To how many regions will the Web App be deployed?


To which region will two sites named Site5 and Site8 be deployed?


### NEW QUESTION 340

- (Exam Topic 10)

A company creates an API and makes it accessible on an Azure website. External partners use the API occasionally. The website uses the Standard web hosting plan.

Partners report that the first API call in a sequence of API calls occasionally takes longer than expected to run. Subsequent API calls consistently perform as expected.

You need to ensure that all API calls perform consistently. What should you do?

- A. Configure the website to use the Basic web hosting plan
- B. Enable Always On support.
- C. Configure the website to automatically scale.
- D. Add a trigger to the web.config file for the website that causes the website to recycle periodically.

**Answer: B**

#### Explanation:

By default, web apps are unloaded if they are idle for some period of time. This lets the system conserve resources. In Basic or Standard mode, you can enable Always On to keep the app loaded all the time. If your app runs continuous WebJobs or runs WebJobs triggered using a CRON expression, you should enable Always On, or the web jobs may not run reliably.

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

### NEW QUESTION 344

- (Exam Topic 10)

#### Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other question on this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next sections of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question on this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

#### Background Overview

Woodgrove Bank has 20 regional offices and operates 1,500 branch office locations. Each regional office hosts the servers, infrastructure, and applications that support that region.

Woodgrove Bank plans to move all of their on-premises resources to Azure, including virtual machine

(VM)-based, line-of-business workloads, and SQL databases. You are the owner of the Azure subscription that Woodgrove Bank is using. Your team is using Git repositories hosted on GitHub for source control.

#### Security

Currently, Woodgrove Bank's Computer Security Incident Response Team (CSIRT) has a problem investigating security issues due to the lack of security intelligence integrated with their current incident response tools. This lack of integration introduces a problem during the detection (too many false positives), assessment, and diagnose stages. You decide to use Azure Security Center to help address this problem.

Woodgrove Bank has several apps with regulates data such as Personally Identifiable Information (PII) that require a higher level of security. All apps are currently secured by using an on-premises Active Directory Domain Services (ADDS). The company depends on following mission-critical apps: WGBLoanMaster, WGBLeaseLeader, and WGBCreditCruncher apps. You plan to move each of these apps to Azure as part of an app migration project.

#### Apps

The WGBLoanMaster app has been audited for transaction loss. Many transactions have been lost is processing and monetary write-offs have cost the bank. The app runs on two VMs that include several public endpoints.

The WGBLeaseLeader app has been audited for several data breaches. The app includes a SQL Server database and a web-based portal. The portal uses an ASP.NET Web API function to generate a monthly aggregate report from the database.

The WGBCreditCruncher app runs on a VM and is load balanced at the network level. The app includes several stateless components and must accommodate scaling of increased credit processing. The app runs on a nightly basis to process credit transactions that are batched during the day. The app includes a web-

based portal where customers can check their credit information. A mobile version of the app allows users to upload check images.

Business Requirements WGBLoanMaster app

The app audit revealed a need for zero transaction loss. The business is losing money due to the app losing and not processing loan information. In addition, transactions fail to process after running for a long time. The business has requested the aggregation processing to be scheduled for 01:00 to prevent system slowdown.

WGBLeaseLeader app

The app should be secured to stop data breaches. If the data is breached, it must not be readable. The app is continuing to see increased volume and the business does not want the issues presented in the WGBLoanMaster app. Transaction loss is unacceptable, and although the lease monetary amounts are smaller than loans, they are still an important profit center for Woodgrove Bank. The business would also like the monthly report to be automatically generated on the first of the month. Currently, a user must log in to the portal and click a button to generate the report.

WGBCreditCruncher app

The web-based portal area of the app must allow users to sign in with their Facebook credentials. The bank would like to allow this feature to enable more users to check their credit within the app.

Woodgrove Bank needs to develop a new financial risk modeling feature that they can include in the WGBCreditCruncher app. The financial risk modeling feature has not been developed due to costs associated with processing, transforming, and analyzing the large volumes of data that are collected. You need to find a way to implement parallel processing to ensure that the features run efficiently, reliably, and quickly. The feature must scale based on computing demand to process the large volumes of data and output several financial risk models.

Technical Requirements WGBLoanMaster app

The app uses several compute-intensive tasks that create long-running requests to the system. The app is critical to the business and must be scalable to increased loan processing demands. The VMs that run the app

include a Windows Task Scheduler task that aggregates loan information from the app to send to a third party. This task runs a console app on the VM.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

? Allow messages to reside in the queue for up to a month.

? Be able to publish and consume batches of messages.

? Allow full integration with the Windows Communication Foundation (WCF) communication stack.

? Provide a role-based access model to the queues, including different permissions for senders and receivers.

You develop an Azure Resource Manager (ARM) template to deploy the VMs used to support the app. The template must be deployed to a new resource group and you must validate your deployment settings before creating actual resources.

WGBLeaseLeader app

The app must use Azure SQL Databases as a replacement to the current Microsoft SQL Server environment. The monthly report must be automatically generated.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

? Require server-side logs of all of the transactions run against your queues.

? Track progress of a message within the queue.

? Process the messages within 7 days.

? Provide a differing timeout value per message. WGBCreditCruncher app

The app must:

? Secure inbound and outbound traffic.

? Analyze inbound network traffic for vulnerabilities.

? Use an instance-level public IP and allow web traffic on port 443 only.

? Upgrade the portal to a Single Page Application (SPA) that uses JavaScript, Azure Active Directory (Azure AD), and the OAuth 2.0 implicit authorization grant to secure the Web API back end.

? Cache authentication and host the Web API back end using the Open Web Interface for .NET (OWIN) middleware.

? Immediately compress check images received from the mobile web app.

? Schedule processing of the batched credit transactions on a nightly basis.

? Provide parallel processing and scalable computing resources to output financial risk models.

? Use simultaneous computer nodes to enable high performance computing and updating of the financial risk models.

Key security area

Name	Description
Area 1	Uses Role-Based Access Control (RBAC)
Area 2	Uses Azure Monitoring Agent (ASMAgentLauncher.exe) and the Azure Security Monitoring extension (ASMMonitoringAgent.exe) and is a main cost of Azure Security Center
Area 3	Customizes your company's security requirements and the type of apps of sensitivity of the data. Propagates to all resource groups within the Azure subscription
Area 4	Allows you to detect, assess, and diagnose attacks
Area 5	Prevents and detects future security changes. Changes to the environment are automatically enabled as resources are added

You need to recommend a business continuity and disaster recovery solution for all of the existing line of business applications.

What are two ways to achieve the goal? Each correct answer presents a complete solution.

A. Create new virtual machines (VMs) in Azure and migrate the line of business applications to the VMs.Migrate any backend databases to SQL Database.

B. Migrate the virtual machines to the Hyper-V cluster and enable Hyper-V replica.

C. Configure ExpressRoute to enable migration to Azure.

D. Install the Azure Backup agent on the virtual machines.

**Answer: AB**

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-hyper-v-site-to-azure>



NEW QUESTION 348

- (Exam Topic 10)

You have a solution deployed into a virtual network in Azure named fabVNet. The fabVNet virtual network has three subnets named Apps, Web, and DB that are configured as shown in the exhibit. (Click the Exhibits button.)

virtual network address spaces

ADDRESS SPACE	STARTING IP	CIDR (ADDRESS COUNT)	USABLE ADDRESS RANGE
10.0.0.0/23	10.0.0.0	/23 (507)	10.0.0.4 - 10.0.1.254
SUBNETS			
Apps	10.0.0.0	/26 (59)	10.0.0.4 - 10.0.0.62
Web	10.0.0.64	/29 (3)	10.0.0.68 - 10.0.0.70
DB	10.0.0.72	/29 (3)	10.0.0.76 - 10.0.0.78

add address space

fabvnet

DASHBOARD CONFIGURE CERTIFICATES

virtual network

<=>

fabVNet

resources

NAME	ROLE	IP ADDRESS	SUBNET NAME	
fabApps1	Virtual Machine	10.0.0.4	Apps	
fabDB1	Virtual Machine	10.0.0.76	DB	
fabDB2	Virtual Machine	10.0.0.77	DB	
Svc2WebRole_IN_0	Svc2WebRole	10.0.0.68	Web	

You want to deploy two new VMs to the DB subnet. You need to modify the virtual network to expand the size of the DB subnet to allow more IP addresses. Which three steps should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Action	Answer Area
Empty and delete the Web Subnet.	
Empty and reconfigure the DB subnet to be larger.	
Empty and delete the Virtual Network.	
Empty and reconfigure the Web subnet to be larger.	
Recreate the Virtual Network as now required.	
Create the Web subnet to be larger.	
Empty and delete the DB Subnet.	
Create the DB subnet to be larger.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-faq>

**NEW QUESTION 351**

- (Exam Topic 10)

You manage a web application published to Azure Cloud Services. Your service level agreement (SLA) requires that you are notified in the event of poor performance from customer locations in the US, Asia, and Europe.

You need to configure the Azure Management Portal to notify you when the SLA performance targets are not met. What should you do?

- A. Create an alert rule to monitor web endpoints
- B. Create a Notification Hub alert with response time metrics.
- C. Add an endpoint monitor and alert rule to the Notification Hub.
- D. Configure the performance counter on the cloud service.

**Answer:** A

**Explanation:**

References: <https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-alerts-portal>

**NEW QUESTION 355**

- (Exam Topic 10)

You have an Azure subscription named Subscription1. You create several Azure VMs in Subscription1. All of the VMs 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.

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

**Answer:** AEF

**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>

**NEW QUESTION 360**

- (Exam Topic 10)

You are developing an ASP.NET Web API that you will host by using the Open Web Interface for .NET (OWIN) libraries. The API is used by an ASP.NET MVC Web App that is hosted in Azure.

You need to secure the API by using Azure Active Directory (Azure AD) B2C.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

- Create an Azure AD B2C tenant.
- Install the OWIN OAuth authentication pipeline and enter your B2C details.
- Add an OWIN startup class, configure OAuth 2.0 authentication, and secure controllers with the Authorize attribute.
- Register the application with Azure AD B2C.
- Create policies to support the consumer identity experiences.

### Answer Area



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

### Actions

- Create an Azure AD B2C tenant.
- Install the OWIN OAuth authentication pipeline and enter your B2C details.
- Add an OWIN startup class, configure OAuth 2.0 authentication, and secure controllers with the Authorize attribute.
- Register the application with Azure AD B2C.
- Create policies to support the consumer identity experiences.

### Answer Area



- Create an Azure AD B2C tenant.
- Register the application with Azure AD B2C.
- Create policies to support the consumer identity experiences.
- Install the OWIN OAuth authentication pipeline and enter your B2C details.
- Add an OWIN startup class, configure OAuth 2.0 authentication, and secure controllers with the Authorize attribute.

### NEW QUESTION 363

- (Exam Topic 10)

You manage a public-facing web application which allows authenticated users to upload and download large files. On the initial public page there is a promotional video.

You plan to give users access to the site content and promotional video. In the table below, identify the access method that should be used for the anonymous and authenticated parts of the application.

Make only one selection in each column.



Access Method	Anonymous	Authenticated
Create an Access Policy per user and provide Read and Write access to the blob files by using Shared Access Signatures.	<input type="checkbox"/>	<input type="checkbox"/>
Create Ad-Hoc Shared Access Signatures to provide read-only access to the blob files.	<input type="checkbox"/>	<input type="checkbox"/>
Create Ad-Hoc Shared Access Signatures to provide Read and Write access to the blob files.	<input type="checkbox"/>	<input type="checkbox"/>
Make the blob container public.	<input type="checkbox"/>	<input type="checkbox"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Anonymous: If a SAS is published publicly, it can be used by anyone in the world. Authenticated: Create an Access Policy..  
 Not Ad-Hoc: Ad-Hoc would have to have a time limit.  
 References: <https://docs.microsoft.com/en-in/azure/storage/storage-dotnet-shared-access-signature-part-1>

NEW QUESTION 365

- (Exam Topic 10)  
 You manage a cloud service that has a web role named fabWeb. You create a virtual network named fabVNet that has two subnets defined as Web and Apps. You need to be able to deploy fabWeb into the Web subnet. What should you do?

- A. Modify the service definition (csdef) for the cloud service
- B. Run the Set-AzureSubnet PowerShell cmdlet.
- C. Run the Set-AzureVNetConfig PowerShell cmdlet.
- D. Modify the network configuration file.
- E. Modify the service configuration (cscfg) for the fabWeb web role.

Answer: E

Explanation:

You can use PowerShell to move your VMs (Classic) from one subnet to another in the same virtual network (VNet). Role instances can be moved by editing the CSCFG file, rather than using PowerShell.  
 References: <https://docs.microsoft.com/en-in/azure/virtual-network/virtual-networks-move-vm-role-to-subnet>

NEW QUESTION 367

- (Exam Topic 10)  
 You administer a cloud service. You plan to host two web applications named contosoweb and contosoweb support. You need to ensure that you can host both applications and qualify for the Azure Service Level Agreement. You want to achieve this goal while minimizing costs. How should you host both applications?

- A. in different web roles with two instances in each web role

- B. in the same web role with two instances
- C. in different web roles with one instance in each web role
- D. in the same web role with one instance

**Answer:** B

**Explanation:**

For Cloud Services, we guarantee that when you deploy two or more role instances in different fault and upgrade domains, your Internet facing roles will have external connectivity at least 99.95% of the time.

References: [https://azure.microsoft.com/en-us/support/legal/sla/cloud-services/v1\\_0/](https://azure.microsoft.com/en-us/support/legal/sla/cloud-services/v1_0/)

**NEW QUESTION 370**

- (Exam Topic 10)

You deploy an application as a cloud service to Azure. The application contains a web role to convert temperatures between Celsius and Fahrenheit. The application does not correctly convert temperatures.

You must use Microsoft Visual Studio to determine why the application does not correctly convert temperatures. You need to debug the source code in Azure.

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

Actions	Answer Area
Attach the debugger to the role instance of the cloud service.	
Publish the application.	
In the Microsoft Azure Publish Settings dialog, set the build configuration to <b>Release</b> and enable the remote debugger for all roles.	
In the Windows Azure Publish Settings dialog, set the build configuration to <b>Debug</b> .	
In the Microsoft Azure Publish Settings dialog, enable Remote Desktop for cloud configuration and enable the remote debugger for all roles.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1:

To debug a cloud service from a remote machine, you must enable that functionality explicitly when you deploy your cloud service so that required services (msvsmon.exe, for example) are installed on the virtual machines that run your role instances.

You can choose the Release configuration. Step 2:

If you didn't enable remote debugging when you published the service, you have to republish the service with remote debugging enabled.

Step 3:

If you debug a role, the Visual Studio debugger attaches to each instance of that role. References:

**NEW QUESTION 375**

- (Exam Topic 10)

Your company is launching a public website that allows users to stream videos. You upload multiple video files to an Azure storage container.

You need to give anonymous users read access to all of the video files in the storage container. What should you do?

- A. Edit each blob's metadata and set the access policy to Public Blob.
- B. Edit the container metadata and set the access policy to Public Container.
- C. Move the files into a container sub-directory and set the directory access level to Public Blob.
- D. Edit the container metadata and set the access policy to Public Blob.

**Answer:** D

**Explanation:**

You can enable anonymous, public read access to a container and its blobs in Azure Blob storage. By doing so, you can grant read-only access to these resources without sharing your account key, and without requiring a shared access signature (SAS).

To set permissions to public read access for blobs only, set the `PublicAccess` property to `BlobContainerPublicAccessType.Blob`.

References: <https://docs.microsoft.com/en-us/azure/storage/storage-manage-access-to-resources>

**NEW QUESTION 378**

- (Exam Topic 10)

Your company network has two physical locations configured in a geo-clustered environment.

You create a Blob storage account in Azure that contains all the data associated with your company.

You need to ensure that the data remains available in the event of a site outage. Which storage option should you enable?

- A. Locally redundant storage

- B. Geo-redundant storage
- C. Zone-redundant storage
- D. Read-only geo-redundant storage

**Answer:** D

**Explanation:**

Read-access geo-redundant storage (RA-GRS) maximizes availability for your storage account, by providing read-only access to the data in the secondary location, in addition to the replication across two regions provided by GRS.

When you enable read-only access to your data in the secondary region, your data is available on a secondary endpoint, in addition to the primary endpoint for your storage account.

References: <https://docs.microsoft.com/en-us/azure/storage/storage-redundancy>

**NEW QUESTION 380**

- (Exam Topic 10)

**Case Study**

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other question on this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next sections of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question on this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

**Background Overview**

Woodgrove Bank has 20 regional offices and operates 1,500 branch office locations. Each regional office hosts the servers, infrastructure, and applications that support that region.

Woodgrove Bank plans to move all of their on-premises resources to Azure, including virtual machine (VM)-based, line-of-business workloads, and SQL databases. You are the owner of the Azure subscription that Woodgrove Bank is using. Your team is using Git repositories hosted on GitHub for source control.

**Security**

Currently, Woodgrove Bank's Computer Security Incident Response Team (CSIRT) has a problem investigating security issues due to the lack of security intelligence integrated with their current incident

response tools. This lack of integration introduces a problem during the detection (too many false positives), assessment, and diagnose stages. You decide to use Azure Security Center to help address this problem.

Woodgrove Bank has several apps with regulates data such as Personally Identifiable Information (PII) that require a higher level of security. All apps are currently secured by using an on-premises Active Directory Domain Services (ADDS). The company depends on following mission-critical apps: WGBLoanMaster, WGBLeaseLeader, and WGBCreditCruncher apps. You plan to move each of these apps to Azure as part of an app migration project.

**Apps**

The WGBLoanMaster app has been audited for transaction loss. Many transactions have been lost is processing and monetary write-offs have cost the bank. The app runs on two VMs that include several public endpoints.

The WGBLeaseLeader app has been audited for several data breaches. The app includes a SQL Server database and a web-based portal. The portal uses an ASP.NET Web API function to generate a monthly aggregate report from the database.

The WGBCreditCruncher app runs on a VM and is load balanced at the network level. The app includes several stateless components and must accommodate scaling of increased credit processing. The app runs on a nightly basis to process credit transactions that are batched during the day. The app includes a web-based portal where customers can check their credit information. A mobile version of the app allows users to upload check images.

**Business Requirements WGBLoanMaster app**

The app audit revealed a need for zero transaction loss. The business is losing money due to the app losing and not processing loan information. In addition, transactions fail to process after running for a long time. The business has requested the aggregation processing to be scheduled for 01:00 to prevent system slowdown.

**WGBLeaseLeader app**

The app should be secured to stop data breaches. If the data is breached, it must not be readable. The app is continuing to see increased volume and the business does not want the issues presented in the WGBLoanMaster app. Transaction loss is unacceptable, and although the lease monetary amounts are smaller than loans, they are still an important profit center for Woodgrove Bank. The business would also like the monthly report to be automatically generated on the first of the month. Currently, a user must log in to the portal and click a button to generate the report.

**WGBCreditCruncher app**

The web-based portal area of the app must allow users to sign in with their Facebook credentials. The bank would like to allow this feature to enable more users to check their credit within the app.

Woodgrove Bank needs to develop a new financial risk modeling feature that they can include in the WGBCreditCruncher app. The financial risk modeling feature has not been developed due to costs associated with processing, transforming, and analyzing the large volumes of data that are collected. You need to find a way to implement parallel processing to ensure that the features run efficiently, reliably, and quickly. The feature must scale based on computing demand to process the large volumes of data and output several financial risk models.

**Technical Requirements WGBLoanMaster app**

The app uses several compute-intensive tasks that create long-running requests to the system. The app is critical to the business and must be scalable to increased loan processing demands. The VMs that run the app include a Windows Task Scheduler task that aggregates loan information from the app to send to a third party. This task runs a console app on the VM.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

? Allow messages to reside in the queue for up to a month.

? Be able to publish and consume batches of messages.

? Allow full integration with the Windows Communication Foundation (WCF) communication stack.

? Provide a role-based access model to the queues, including different permissions for senders and receivers.

You develop an Azure Resource Manager (ARM) template to deploy the VMs used to support the app. The template must be deployed to a new resource group and you must validate your deployment settings before creating actual resources.

**WGBLeaseLeader app**

The app must use Azure SQL Databases as a replacement to the current Microsoft SQL Server environment. The monthly report must be automatically generated.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

? Require server-side logs of all of the transactions run against your queues.



- ? Track progress of a message within the queue.
  - ? Process the messages within 7 days.
  - ? Provide a differing timeout value per message. WGBCreditCruncher app
- The app must:
- ? Secure inbound and outbound traffic.
  - ? Analyze inbound network traffic for vulnerabilities.
  - ? Use an instance-level public IP and allow web traffic on port 443 only.
  - ? Upgrade the portal to a Single Page Application (SPA) that uses JavaScript, Azure Active Directory (Azure AD), and the OAuth 2.0 implicit authorization grant to secure the Web API back end.
  - ? Cache authentication and host the Web API back end using the Open Web Interface for .NET (OWIN) middleware.
  - ? Immediately compress check images received from the mobile web app.
  - ? Schedule processing of the batched credit transactions on a nightly basis.
  - ? Provide parallel processing and scalable computing resources to output financial risk models.
  - ? Use simultaneous computer nodes to enable high performance computing and updating of the financial risk models.
- Key security area

Name	Description
Area 1	Uses Role-Based Access Control (RBAC)
Area 2	Uses Azure Monitoring Agent (ASMAgentLauncher.exe) and the Azure Security Monitoring extension (ASMMonitoringAgent.exe) and is a main cost of Azure Security Center
Area 3	Customizes your company's security requirements and the type of apps of sensitivity of the data. Propagates to all resource groups within the Azure subscription
Area 4	Allows you to detect, assess, and diagnose attacks
Area 5	Prevents and detects future security changes. Changes to the environment are automatically enabled as resources are added

You need to secure the Woodgrove Bank apps.  
 Which prevention policy must you enable for each app? To answer, drag the appropriate policy to the correct app. Each policy 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.

## Prevention policies

- next generation firewall
- vulnerability assessment
- SQL transparent data encryption
- network security groups (NSGs)
- disk encryption
- web application firewall (WAF)

## Answer Area

App	Policy
LoanMaster	Prevention policy
LeaseLeader	Prevention policy
CreditCruncher	Prevention policy

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

## Prevention policies

- next generation firewall
- vulnerability assessment
- SQL transparent data encryption
- network security groups (NSGs)
- disk encryption
- web application firewall (WAF)

## Answer Area

App	Policy
LoanMaster	network security groups (NSGs)
LeaseLeader	SQL transparent data encryption
CreditCruncher	next generation firewall

NEW QUESTION 385

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