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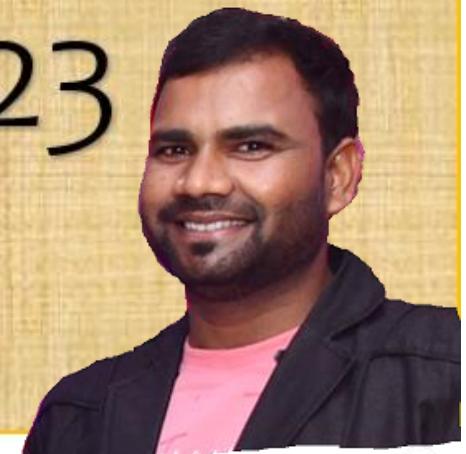


AZ-204

# Exam Dumps

91 Quest

updated 2023



1) You have two Hyper-V hosts named Host1 and Host2. Host1 has an Azure virtual machine named VM1 that was deployed by using a custom Azure Resource Manager template.  
You need to move VM1 to Host2.  
What should you do?

- A. From the Update management blade, click Enable.
- B. From the Overview blade, move VM1 to a different subscription.
- C. From the Redeploy blade, click Redeploy.
- D. From the Profile blade, modify the usage location.



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**Correct Answer:** C

When you redeploy a VM, it moves the VM to a new node within the Azure infrastructure and then powers it back on, retaining all your configuration options and associated resources.

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2) You have downloaded an Azure Resource Manager template to deploy numerous virtual machines. The template is based on a current virtual machine, but must be adapted to reference an administrative password. You need to make sure that the password is not stored in plain text. You are preparing to create the necessary components to achieve your goal. Which of the following should you create to achieve your goal? Answer by dragging the correct option from the list to the answer area.

Select and Place:

<b>Options</b>	<b>Answer</b>
----------------	---------------

An Azure Key Vault
An Azure Storage account
Azure Active Directory (AD) Identity Protection
An access policy
An Azure policy
A backup policy

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2) You have downloaded an Azure Resource Manager template to deploy numerous virtual machines. The template is based on a current virtual machine, but must be adapted to reference an administrative password. You need to make sure that the password is not stored in plain text. You are preparing to create the necessary components to achieve your goal. Which of the following should you create to achieve your goal? Answer by dragging the correct option from the list to the answer area.

Select and Place:

**Options****Answer**

An Azure Key Vault

An access policy

An Azure Storage account

Azure Active Directory (AD)  
Identity Protection

An Azure policy

A backup policy

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3) Your company has an Azure Kubernetes Service (AKS) cluster that you manage from an Azure AD-joined device. The cluster is located in a resource group.

Developers have created an application named MyApp. MyApp was packaged into a container image. You need to deploy the YAML manifest file for the application.

Solution: You install the Azure CLI on the device and run the kubectl apply -f myapp.yaml command. Does this meet the goal?

- 
- A. Yes
  - B. No

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**Correct Answer:** A

kubectl apply -f myapp.yaml applies a configuration change to a resource from a file or stdin.

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4) Your company has an Azure Kubernetes Service (AKS) cluster that you manage from an Azure AD-joined device. The cluster is located in a resource group.

Developers have created an application named MyApp. MyApp was packaged into a container image. You need to deploy the YAML manifest file for the application.

Solution: You install the docker client on the device and run the docker run -it microsoft/azure-cli:0.10.17 command.

Does this meet the goal?

- A. Yes
- B. No



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**Correct Answer: B**

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5) Your company has a web app named WebApp1.  
You use the WebJobs SDK to design a triggered App Service background task that automatically invokes a function in the code every time new data is received in a queue.  
You are preparing to configure the service processes a queue data item.  
Which of the following is the service you should use?

- A. Logic Apps
- •B. WebJobs
- C. Flow
- D. Functions

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**Correct Answer: B**

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6) Your company has an Azure subscription.

You need to deploy a number of Azure virtual machines to the subscription by using Azure Resource Manager (ARM) templates. The virtual machines will be included in a single availability set.

You need to ensure that the ARM template allows for as many virtual machines as possible to remain accessible in the event of fabric failure or maintenance.

Which of the following is the value that you should configure for the platformFaultDomainCount property?

- A. 10
- B. 30
- C. Min Value
- D. Max Value



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**Correct Answer: D**

The number of fault domains for managed availability sets varies by region - either two or three per region.

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7) Your company has an Azure subscription.

You need to deploy a number of Azure virtual machines to the subscription by using Azure Resource Manager (ARM) templates. The virtual machines will be included in a single availability set.

You need to ensure that the ARM template allows for as many virtual machines as possible to remain accessible in the event of fabric failure or maintenance.

Which of the following is the value that you should configure for the platformUpdateDomainCount property?

- A. 10
- B. 20
- C. 30
- D. 40



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**Correct Answer:** D

Each virtual machine in your availability set is assigned an update domain and a fault domain by the underlying Azure platform. For a given availability set, five non-user-configurable update domains are assigned by default (Resource Manager deployments can then be increased to provide up to 20 update domains) to indicate groups of virtual machines and underlying physical hardware that can be rebooted at the same time.

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8) You are creating an Azure Cosmos DB account that makes use of the SQL API. Data will be added to the account every day by a web application.

You need to ensure that an email notification is sent when information is received from IoT devices, and that compute cost is reduced.

You decide to deploy a function app.

Which of the following should you configure the function app to use? Answer by dragging the correct options from the list to the answer area.

Select and Place:

## Options

Azure Cosmos DB connector

SendGrid action

Consumption plan

Azure Event Hubs binding

SendGrid binding

## Answer

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8) You are creating an Azure Cosmos DB account that makes use of the SQL API. Data will be added to the account every day by a web application.

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Select and Place:

## Options

Azure Cosmos DB connector

SendGrid action

Azure Event Hubs binding

## Answer

Consumption plan

SendGrid binding

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9) This question requires that you evaluate the underlined text to determine if it is correct.

You company has an on-premises deployment of MongoDB, and an Azure Cosmos DB account that makes use of the MongoDB API.

You need to devise a strategy to migrate MongoDB to the Azure Cosmos DB account.

You include the Data Management Gateway tool in your migration strategy.

Instructions: Review the underlined text. If it makes the statement correct, select 'No change required.' If the statement is incorrect, select the answer choice that makes the statement correct.

- 
- A. No change required
  - B. mongorestore
  - C. Azure Storage Explorer
  - D. AzCopy

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Correct Answer: *B*

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10 ) You are developing an e-Commerce Web App.

You want to use Azure Key Vault to ensure that sign-ins to the e-Commerce Web App are secured by using Azure App Service authentication and Azure Active Directory (AAD).

What should you do on the e-Commerce Web App?

- A. Run the az keyvault secret command.
- B. Enable Azure AD Connect.
- C. Enable Managed Service Identity (MSI).
- D. Create an Azure AD service principal.



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**Correct Answer:** C

A managed identity from Azure Active Directory allows your app to easily access other AAD-protected resources such as Azure Key Vault.

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11) You are creating an Azure key vault using PowerShell. Objects deleted from the key vault must be kept for a set period of 90 days.

Which two of the following parameters must be used in conjunction to meet the requirement? (Choose two.)

- A. EnabledForDeployment
- •B. EnablePurgeProtection
- C. EnabledForTemplateDeployment
- •D. EnableSoftDelete

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**Correct Answer:** BD

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12) You have an Azure Active Directory (Azure AD) tenant.

You want to implement multi-factor authentication by making use of a conditional access policy. The conditional access policy must be applied to all users when they access the Azure portal.

Which three settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area



The screenshot shows the configuration page for a conditional access policy named "MFA required for Azure portal access". The page is divided into sections: "Assignments" and "Access controls".

**Assignments:**

- Users and groups: 0 users selected
- Cloud apps: 0 apps selected
- Conditions: 0 conditions selected

**Access controls:**

- Grant: 0 controls selected
- Session: 0 controls selected

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12) You have an Azure Active Directory (Azure AD) tenant.

You want to implement multi-factor authentication by making use of a conditional access policy. The conditional access policy must be applied to all users when they access the Azure portal.

Which three settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Box 1:

The conditional access policy must be applied or assigned to Users and Groups.

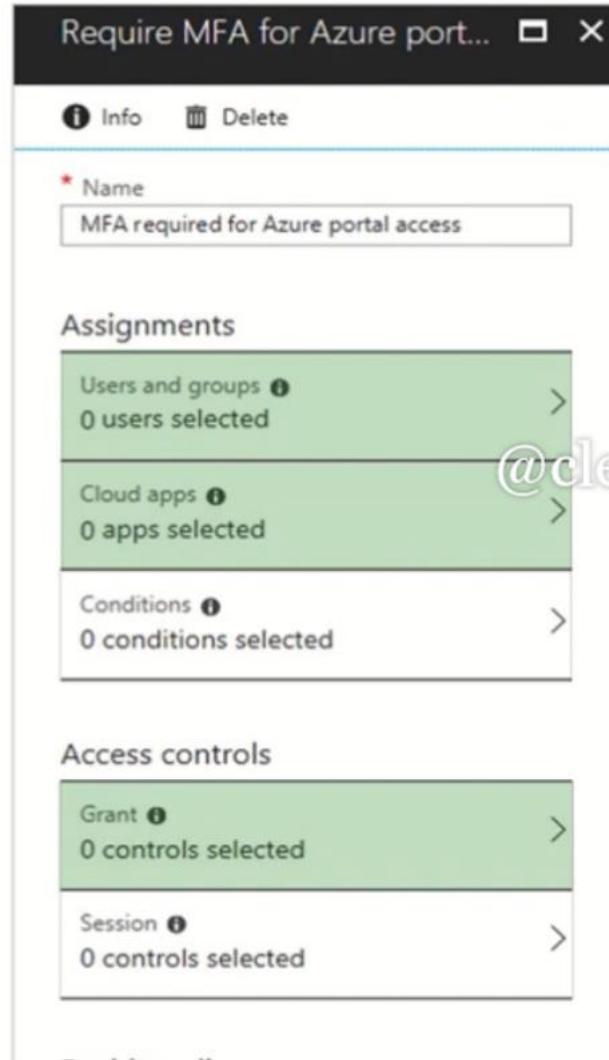
Box 2:

The conditional access policy must be applied when users access the Azure portal, which is a cloud app. That is: Microsoft Azure Management

Box 3:

Access control must require multi-factor authentication when granting access.

## Answer Area



The screenshot shows the configuration page for a conditional access policy named "MFA required for Azure portal access". The page is divided into sections: "Assignments" (Users and groups, Cloud apps), "Access controls" (Grant, Session), and other tabs like "Conditions" and "Grant conditions".

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13) You manage an Azure SQL database that allows for Azure AD authentication.

You need to make sure that database developers can connect to the SQL database via Microsoft SQL Server Management Studio (SSMS). You also need to make sure the developers use their on-premises Active Directory account for authentication. Your strategy should allow for authentication prompts to be kept to a minimum.

Which of the following should you implement?

- A. Azure AD token.
- B. Azure Multi-Factor authentication.
- C. Active Directory integrated authentication.
- D. OATH software tokens.



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**Correct Answer:** C

Azure AD can be the initial Azure AD managed domain. Azure AD can also be an on-premises Active Directory Domain Services that is federated with the Azure AD.

Using an Azure AD identity to connect using SSMS or SSDT

The following procedures show you how to connect to a SQL database with an Azure AD identity using SQL Server Management Studio or SQL Server Database Tools.

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14) You are developing an application to transfer data between on-premises file servers and Azure Blob storage. The application stores keys, secrets, and certificates in Azure Key Vault and makes use of the Azure Key Vault APIs. You want to configure the application to allow recovery of an accidental deletion of the key vault or key vault objects for 90 days after deletion.

What should you do?

- A. Run the Add-AzKeyVaultKey cmdlet.
- •B. Run the az keyvault update --enable-soft-delete true --enable-purge-protection true CLI.
- C. Implement virtual network service endpoints for Azure Key Vault.
- D. Run the az keyvault update --enable-soft-delete false CLI.

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**Correct Answer: B**

When soft-delete is enabled, resources marked as deleted resources are retained for a specified period (90 days by default). The service further provides a mechanism for recovering the deleted object, essentially undoing the deletion. Purge protection is an optional Key Vault behavior and is not enabled by default. Purge protection can only be enabled once soft-delete is enabled.

When purge protection is on, a vault or an object in the deleted state cannot be purged until the retention period has passed. Soft-deleted vaults and objects can still be recovered, ensuring that the retention policy will be followed. The default retention period is 90 days, but it is possible to set the retention policy interval to a value from 7 to 90 days through the Azure portal. Once the retention policy interval is set and saved it cannot be changed for that vault.

15. You have developed a Web App for your company. The Web App provides services and must run in multiple regions.

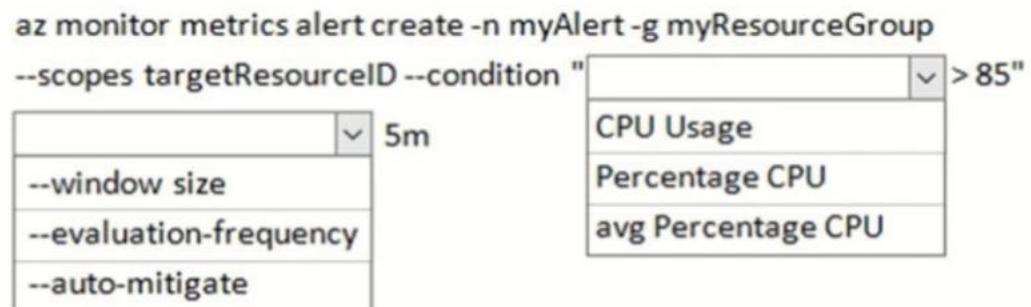
You want to be notified whenever the Web App uses more than 85 percent of the available CPU cores over a 5 minute period. Your solution must minimize costs.

Which command should you use? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
az monitor metrics alert create -n myAlert -g myResourceGroup  
--scopes targetResourceId --condition " > 85"  
5m  
--window-size  
--evaluation-frequency  
--auto-mitigate
```



The screenshot shows the Azure CLI command for creating a metric alert. The 'condition' parameter is set to '> 85'. A dropdown menu is open next to 'condition', showing three options: 'CPU Usage', 'Percentage CPU', and 'avg Percentage CPU'. Another dropdown menu is open next to 'window size', showing '5m'. Below these, there are three more parameters: '--evaluation-frequency' (dropdown), '--auto-mitigate' (checkbox), and '--window-size' (dropdown).

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15. You have developed a Web App for your company. The Web App provides services and must run in multiple regions.

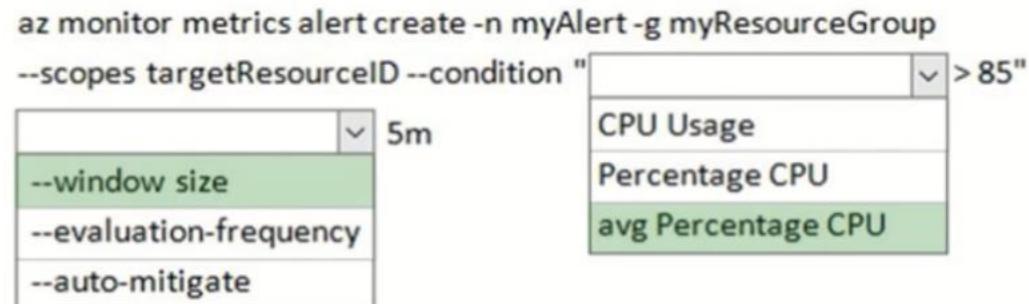
You want to be notified whenever the Web App uses more than 85 percent of the available CPU cores over a 5 minute period. Your solution must minimize costs.

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## Answer Area

```
az monitor metrics alert create -n myAlert -g myResourceGroup  
--scopes targetResourceId --condition " > 85"  
--window-size 5m  
--evaluation-frequency  
--auto-mitigate
```



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16. You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of Azure Redis Cache in your design.

Does the solution meet the goal?

- A. Yes
- B. No



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**Correct Answer: B**

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17) You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of an Azure Content Delivery Network (CDN) in your design.

Does the solution meet the goal?



- A. Yes
- B. No

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**Correct Answer:** A

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18) You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of a Storage Area Network (SAN) in your design.

Does the solution meet the goal?

- A. Yes
- B. No



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**Correct Answer: B**

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19) You develop a Web App on a tier D1 app service plan.

You notice that page load times increase during periods of peak traffic.

You want to implement automatic scaling when CPU load is above 80 percent. Your solution must minimize costs.

What should you do first?

- A. Enable autoscaling on the Web App.
- B. Switch to the Premium App Service tier plan.
- C. Switch to the Standard App Service tier plan.
- D. Switch to the Azure App Services consumption plan.



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**Correct Answer:** C

Configure the web app to the Standard App Service Tier. The Standard tier supports auto-scaling, and we should minimize the cost. We can then enable autoscaling on the web app, add a scale rule and add a Scale condition.

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20) Your company's Azure subscription includes an Azure Log Analytics workspace.

Your company has a hundred on-premises servers that run either Windows Server 2012 R2 or Windows Server 2016, and is linked to the Azure Log Analytics workspace. The Azure Log Analytics workspace is set up to gather performance counters associated with security from these linked servers.

You must configure alerts based on the information gathered by the Azure Log Analytics workspace.

You have to make sure that alert rules allow for dimensions, and that alert creation time should be kept to a minimum.

Furthermore, a single alert notification must be created when the alert is created and when the alert is resolved.

You need to make use of the necessary signal type when creating the alert rules.

Which of the following is the option you should use?

- A. The Activity log signal type.
- B. The Application Log signal type.
- C. The Metric signal type.
- D. The Audit Log signal type.



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**Correct Answer: C**

Metric alerts in Azure Monitor provide a way to get notified when one of your metrics cross a threshold. Metric alerts work on a range of multi-dimensional platform metrics, custom metrics, Application Insights standard and custom metrics.

Note: Signals are emitted by the target resource and can be of several types. Metric, Activity log, Application Insights, and Log.

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21) You are developing a .NET Core MVC application that allows customers to research independent holiday accommodation providers.

You want to implement Azure Search to allow the application to search the index by using various criteria to locate documents related to accommodation.

You want the application to allow customers to search the index by using regular expressions.

What should you do?

- A. Configure the SearchMode property of the SearchParameters class.
- •B. Configure the QueryType property of the SearchParameters class.
- C. Configure the Facets property of the SearchParameters class.
- D. Configure the Filter property of the SearchParameters class.

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**Correct Answer:** B

The SearchParameters.QueryType Property gets or sets a value that specifies the syntax of the search query. The default is 'simple'. Use 'full' if your query uses the Lucene query syntax.

You can write queries against Azure Search based on the rich Lucene Query Parser syntax for specialized query forms: wildcard, fuzzy search, proximity search, regular expressions are a few examples.

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22) You are a developer at your company.  
You need to update the definitions for an existing Logic App.  
What should you use?

- A. the Enterprise Integration Pack (EIP)
- •B. the Logic App Code View
- C. the API Connections
- D. the Logic Apps Designer

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**Correct Answer: B**

Edit JSON - Azure portal -

1. Sign in to the Azure portal.
2. From the left menu, choose All services. In the search box, find "logic apps", and then from the results, select your logic app.
3. On your logic app's menu, under Development Tools, select Logic App Code View.
4. The Code View editor opens and shows your logic app definition in JSON format.

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23) You are developing a solution for a public facing API.

The API back end is hosted in an Azure App Service instance. You have implemented a RESTful service for the API back end.

You must configure back-end authentication for the API Management service instance.

Solution: You configure Basic gateway credentials for the Azure resource.

Does the solution meet the goal?

- A. Yes
- B. No



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**Correct Answer: B**

API Management allows to secure access to the back-end service of an API using client certificates.

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24) You are developing a .NET Core MVC application that allows customers to research independent holiday accommodation providers.

You want to implement Azure Search to allow the application to search the index by using various criteria to locate documents related to accommodation venues.

You want the application to list holiday accommodation venues that fall within a specific price range and are within a specified distance to an airport.

What should you do?

- A. Configure the SearchMode property of the SearchParameters class.
- B. Configure the QueryType property of the SearchParameters class.
- C. Configure the Facets property of the SearchParameters class.
- D. Configure the Filter property of the SearchParameters class.



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**Correct Answer: D**

The Filter property gets or sets the OData \$filter expression to apply to the search query.

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25) You are a developer for a company that provides a bookings management service in the tourism industry. You are implementing Azure Search for the tour agencies listed in your company's solution. You create the index in Azure Search. You now need to use the Azure Search .NET SDK to import the relevant data into the Azure Search service. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions from left to right and arrange them in the correct order.

**Answer Area**

Create a DataSource instance and set its Container property to the DataContainer.

Create an IndexBatch that contains the documents which must be added.

Set the DataSources property of the SearchServiceClient.

Create a SearchIndexClient object to connect to the search index.

Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

Call the Documents.Suggest method of the SearchIndexClient and pass the DataSource.

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25) You are a developer for a company that provides a bookings management service in the tourism industry. You are implementing Azure Search for the tour agencies listed in your company's solution.

You create the index in Azure Search. You now need to use the Azure Search .NET SDK to import the relevant data into the Azure Search service.

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

## Answer Area

Create a DataSource instance and set its Container property to the DataContainer.

Set the DataSources property of the SearchServiceClient.

Call the Documents.Suggest method of the SearchIndexClient and pass the DataSource.

Create a SearchIndexClient object to connect to the search index.

Create an IndexBatch that contains the documents which must be added.

Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

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26) You are developing an application that applies a set of governance policies for internal and external services, as well as for applications.

You develop a stateful ASP.NET Core 2.1 web application named PolicyApp and deploy it to an Azure App Service Web App. The PolicyApp reacts to events from

Azure Event Grid and performs policy actions based on those events.

You have the following requirements:

- Authentication events must be used to monitor users when they sign in and sign out.
- All authentication events must be processed by PolicyApp.
- Sign outs must be processed as fast as possible.

What should you do?

- A. Create a new Azure Event Grid subscription for all authentication events. Use the subscription to process sign-out events.
- B. Create a separate Azure Event Grid handler for sign-in and sign-out events.
- C. Create separate Azure Event Grid topics and subscriptions for sign-in and sign-out events.
- D. Add a subject prefix to sign-out events. Create an Azure Event Grid subscription. Configure the subscription to use the subjectBeginsWith filter.  


**Correct Answer: D**

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27) You are implementing a software as a service (SaaS) ASP.NET Core web service that will run as an Azure Web App. The web service will use an on-premises SQL Server database for storage. The web service also includes a WebJob that processes data updates. Four customers will use the web service.

- Each instance of the WebJob processes data for a single customer and must run as a singleton instance.
- Each deployment must be tested by using deployment slots prior to serving production data.
- Azure costs must be minimized.
- Azure resources must be located in an isolated network.

You need to configure the App Service plan for the Web App.

How should you configure the App Service plan? To answer, select the appropriate settings in the answer area

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## Answer Area

App service plan setting	Value
Number of VM instances	<input type="text" value="2"/> <input type="text" value="4"/> <input type="text" value="8"/> <input type="text" value="16"/>
Pricing tier	<input type="text" value="Isolated"/> <input type="text" value="Standard"/> <input type="text" value="Premium"/> <input type="text" value="Consumption"/>

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- ☞ Each instance of the WebJob processes data for a single customer and must run as a singleton instance.
- ☞ Each deployment must be tested by using deployment slots prior to serving production data.
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## Answer Area

App service plan setting	Value
Number of VM instances	<input type="button" value="▼"/> <input type="button" value="2"/> <input checked="" type="button" value="4"/> <input type="button" value="8"/> <input type="button" value="16"/>
Pricing tier	<input type="button" value="▼"/> <input checked="" type="button" value="Isolated"/> <input type="button" value="Standard"/> <input type="button" value="Premium"/> <input type="button" value="Consumption"/>

28) You are a developer for a software as a service (SaaS) company that uses an Azure Function to process orders. The Azure Function currently runs on an Azure Function app that is triggered by an Azure Storage queue.

You are preparing to migrate the Azure Function to Kubernetes using Kubernetes-based Event Driven Autoscaling (KEDA). You need to configure Kubernetes Custom Resource Definitions (CRD) for the Azure Function.

Which CRDs should you configure? To answer, drag the appropriate CRD types to the correct locations. Each CRD type 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.

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## Answer Area

CRD types	Setting	CRD type
Secret	Azure Function code	<input type="text"/>
Deployment	Polling interval	<input type="text"/>
ScaledObject	Azure Storage connection string	<input type="text"/>
TriggerAuthentication		<input type="text"/>

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28) You are a developer for a software as a service (SaaS) company that uses an Azure Function to process orders. The Azure Function currently runs on an Azure Function app that is triggered by an Azure Storage queue. You are preparing to migrate the Azure Function to Kubernetes using Kubernetes-based Event Driven Autoscaling (KEDA). You need to configure Kubernetes Custom Resource Definitions (CRD) for the Azure Function. Which CRDs should you configure? To answer, drag the appropriate CRD types to the correct locations. Each CRD type 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.

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## Answer Area

CRD types	Setting	CRD type
Secret	Azure Function code	Deployment
Deployment	Polling interval	ScaledObject
ScaledObject	Azure Storage connection string	Secret
TriggerAuthentication		

29) You develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute. You need to design the process that starts the photo processing.

Solution: Convert the Azure Storage account to a BlockBlobStorage storage account.

Does the solution meet the goal?

- A. Yes
- B. No



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**Correct Answer: B**

Not necessary to convert the account, instead move photo processing to an Azure Function triggered from the blob upload..

Azure Storage events allow applications to react to events. Common Blob storage event scenarios include image or video processing, search indexing, or any file-oriented workflow.

Note: Only storage accounts of kind StorageV2 (general purpose v2) and BlobStorage support event integration. Storage (general purpose v1) does not support integration with Event Grid.

30) You are developing an Azure Web App. You configure TLS mutual authentication for the web app. You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Property	Value
Client certificate location	<input type="checkbox"/> HTTP request header <input type="checkbox"/> Client cookie <input type="checkbox"/> HTTP message body <input type="checkbox"/> URL query string
Encoding type	<input type="checkbox"/> HTML <input type="checkbox"/> URL <input type="checkbox"/> Unicode <input type="checkbox"/> Base64

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30) You are developing an Azure Web App. You configure TLS mutual authentication for the web app. You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Property	Value
Client certificate location	<div style="border: 1px solid #ccc; padding: 5px;"><div style="background-color: #f0f0f0; border-bottom: 1px solid #ccc; padding-bottom: 5px;">▼</div><div style="background-color: #e0f2e0; color: #0070C0; padding: 2px;">HTTP request header</div><div style="border-bottom: 1px solid #ccc; padding: 2px;">Client cookie</div><div style="border-bottom: 1px solid #ccc; padding: 2px;">HTTP message body</div><div style="border-bottom: 1px solid #ccc; padding: 2px;">URL query string</div></div>
Encoding type	<div style="border: 1px solid #ccc; padding: 5px;"><div style="background-color: #f0f0f0; border-bottom: 1px solid #ccc; padding-bottom: 5px;">▼</div><div style="background-color: #e0f2e0; color: #0070C0; padding: 2px;">HTML</div><div style="border-bottom: 1px solid #ccc; padding: 2px;">URL</div><div style="border-bottom: 1px solid #ccc; padding: 2px;">Unicode</div><div style="background-color: #e0f2e0; color: #0070C0; padding: 2px;">Base64</div></div>

Accessing the client certificate from App Service.

If you are using ASP.NET and configure your app to use client certificate authentication, the certificate will be available through the `HttpRequest.ClientCertificate` property. For other application stacks, the client cert will be available in your app through a base64 encoded value in the "X-ARR-ClientCert" request header. Your application can create a certificate from this value and then use it for authentication and authorization purposes in your application.

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31. You are developing a Docker/Go using Azure App Service Web App for Containers. You plan to run the container in an App Service on Linux. You identify a Docker container image to use.

None of your current resource groups reside in a location that supports Linux. You must minimize the number of resource groups required.

You need to create the application and perform an initial deployment.

Which three Azure CLI commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

**Azure CLI Commands**`az group create``az group update``az webapp update``az webapp create``az appservice plan create`**Answer Area**

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31. You are developing a Docker/Go using Azure App Service Web App for Containers. You plan to run the container in an App Service on Linux. You identify a Docker container image to use.

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Azure CLI Commands	Answer Area
az group create	az group create
az group update	az appservice plan create
az webapp update	az webapp create
az webapp create	
az appservice plan create	

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32) You develop a website. You plan to host the website in Azure. You expect the website to experience high traffic volumes after it is published.

You must ensure that the website remains available and responsive while minimizing cost.

You need to deploy the website.

What should you do?

- A. Deploy the website to a virtual machine. Configure the virtual machine to automatically scale when the CPU load is high.
- B. Deploy the website to an App Service that uses the Shared service tier. Configure the App Service plan to automatically scale when the CPU load is high.
- C. Deploy the website to a virtual machine. Configure a Scale Set to increase the virtual machine instance count when the CPU load is high.
- D. Deploy the website to an App Service that uses the Standard service tier. Configure the App Service plan to automatically scale when the CPU load is high.



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**Correct Answer:** D

Windows Azure Web Sites (WAWS) offers 3 modes: Standard, Free, and Shared.

Standard mode carries an enterprise-grade SLA (Service Level Agreement) of 99.9% monthly, even for sites with just one instance.

Standard mode runs on dedicated instances, making it different from the other ways to buy Windows Azure Web Sites.

33) You develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure Storage Blob storage. The storage account type is General-purpose V2. When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute. You need to design the process that starts the photo processing.  
Solution: Move photo processing to an Azure Function triggered from the blob upload.  
Does the solution meet the goal?



- A. Yes
- B. No

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**Correct Answer:** A

Azure Storage events allow applications to react to events. Common Blob storage event scenarios include image or video processing, search indexing, or any file-oriented workflow. Events are pushed using Azure Event Grid to subscribers such as Azure Functions, Azure Logic Apps, or even to your own http listener.

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34) You are developing an application that uses Azure Blob storage.

The application must read the transaction logs of all the changes that occur to the blobs and the blob metadata in the storage account for auditing purposes. The changes must be in the order in which they occurred, include only create, update, delete, and copy operations and be retained for compliance reasons.

You need to process the transaction logs asynchronously.

What should you do?

- A. Process all Azure Blob storage events by using Azure Event Grid with a subscriber Azure Function app.
- •B. Enable the change feed on the storage account and process all changes for available events.
- C. Process all Azure Storage Analytics logs for successful blob events.
- D. Use the Azure Monitor HTTP Data Collector API and scan the request body for successful blob events.

**Correct Answer: B**

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## Change feed support in Azure Blob Storage

The purpose of the change feed is to provide transaction logs of all the changes that occur to the blobs and the blob metadata in your storage account. The change feed provides ordered, guaranteed, durable, immutable, read-only log of these changes. Client applications can read these logs at any time, either in streaming or in batch mode. The change feed enables you to build efficient and scalable solutions that process change events that occur in your Blob Storage account at a low cost.

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35) You plan to create a Docker image that runs an ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- ☞ Call setupScripts.ps1 when the container is built.
- ☞ Run ContosoApp.dll when the container starts.

The Dockerfile document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which five commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

## Commands

```
FROM microsoft/aspnetcore:latest
WORKDIR /apps/ContosoApp
CMD ["dotnet", "ContosoApp.dll"]
COPY ./ .
RUN powershell ./setupScript.ps1
```

## Answer Area

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35) You plan to create a Docker image that runs an ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- Call setupScripts.ps1 when the container is built.
- Run ContosoApp.dll when the container starts.

The Dockerfile document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which five commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

## Commands

```
FROM microsoft/aspnetcore:latest
WORKDIR /apps/ContosoApp
CMD ["dotnet", "ContosoApp.dll"]
COPY ./ .
RUN powershell ./setupScript.ps1
```

## Answer Area

```
CMD ["dotnet", "ContosoApp.dll"]
FROM microsoft/aspnetcore:latest
WORKDIR /apps/ContosoApp
COPY ./ .
RUN powershell ./setupScript.ps1
```

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36) You are developing a solution for a hospital to support the following use cases:

- ⇒ The most recent patient status details must be retrieved even if multiple users in different locations have updated the patient record.
- ⇒ Patient health monitoring data retrieved must be the current version or the prior version.
- ⇒ After a patient is discharged and all charges have been assessed, the patient billing record contains the final charges.

You provision a Cosmos DB NoSQL database and set the default consistency level for the database account to Strong. You set the value for Indexing Mode to Consistent.

You need to minimize latency and any impact to the availability of the solution. You must override the default consistency level at the query level to meet the required consistency guarantees for the scenarios.

Which consistency levels should you implement? To answer, drag the appropriate consistency levels to the correct requirements. Each consistency level 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.

**Consistency levels**

Strong	Bounded Staleness
Consistent Prefix	Eventual

**Answer Area**

Return the most recent patient status.

Consistency level

Return health monitoring data that is no less than one version behind.

Consistency level

After patient is discharged and all charges are assessed, retrieve the correct billing data with the final charges.

Consistency level

36) You are developing a solution for a hospital to support the following use cases:

- The most recent patient status details must be retrieved even if multiple users in different locations have updated the patient record.
  - Patient health monitoring data retrieved must be the current version or the prior version.
  - After a patient is discharged and all charges have been assessed, the patient billing record contains the final charges.
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**Consistency levels**

Strong	Bounded Staleness
Consistent Prefix	Eventual

**Answer Area**

Return the most recent patient status.

Strong

Return health monitoring data that is no less than one version behind.

Bounded Staleness

After patient is discharged and all charges are assessed, retrieve the correct billing data with the final charges.

Eventual

37) You are configuring a development environment for your team. You deploy the latest Visual Studio image from the Azure Marketplace to your Azure subscription.

The development environment requires several software development kits (SDKs) and third-party components to support application development across the organization. You install and customize the deployed virtual machine (VM) for your development team. The customized VM must be saved to allow provisioning of a new team member development environment.

You need to save the customized VM for future provisioning.

Which tools or services should you use? To answer, select the appropriate options in the answer area.

## Answer Area

Action	Tool or service
Generalize the VM.	<ul style="list-style-type: none"><li>Azure PowerShell</li><li>Visual Studio command prompt</li><li>Azure Migrate</li><li>Azure Backup</li></ul>
Store images.	<ul style="list-style-type: none"><li>Azure Blob Storage</li><li>Azure Data Lake Storage</li><li>Azure File Storage</li><li>Azure Table Storage</li></ul>

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Action	Tool or service
Generalize the VM.	<ul style="list-style-type: none"><li>Azure PowerShell</li><li>Visual Studio command prompt</li><li>Azure Migrate</li><li>Azure Backup</li></ul>
Store images.	<ul style="list-style-type: none"><li>Azure Blob Storage</li><li>Azure Data Lake Storage</li><li>Azure File Storage</li><li>Azure Table Storage</li></ul>

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38) You are developing an application to use Azure Blob storage. You have configured Azure Blob storage to include change feeds.

A copy of your storage account must be created in another region. Data must be copied from the current storage account to the new storage account directly between the storage servers.

You need to create a copy of the storage account in another region and copy the data.

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****Answer Area**

Use AZCopy to copy the data to the new storage account.



Deploy the template to create a new storage account in the target region.



Export a Resource Manager template.



Create a new template deployment.

Modify the template by changing the storage account name and region.

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## Actions

Use AZCopy to copy the data to the new storage account.

Deploy the template to create a new storage account in the target region.

Export a Resource Manager template.

Create a new template deployment.

Modify the template by changing the storage account name and region.

## Answer Area

Create a new template deployment.

Export a Resource Manager template.

Modify the template by changing the storage account name and region.

Deploy the template to create a new storage account in the target region.

Use AZCopy to copy the data to the new storage account.



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39) You are preparing to deploy an Azure virtual machine (VM)-based application.

The VMs that run the application have the following requirements:

- ☞ When a VM is provisioned the firewall must be automatically configured before it can access Azure resources.
- ☞ Supporting services must be installed by using an Azure PowerShell script that is stored in Azure Storage.

You need to ensure that the requirements are met.

Which features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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.

Features	Answer Area	
	Requirement	Feature
Run Command	Firewall configuration	
Serial console	Supporting services script	
Hybrid Runbook Worker		
Custom Script Extension		

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Features	Answer Area	
	Requirement	Feature
	Firewall configuration	Run Command
Serial console	Supporting services script	Hybrid Runbook Worker
Custom Script Extension		

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40) You are developing an application that needs access to an Azure virtual machine (VM). The access lifecycle for the application must be associated with the VM service instance. You need to enable managed identity for the VM. How should you complete the PowerShell segment? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

## Answer Area

```
$vm = Get-AzVM -ResourceGroupName "ContosoRG" -Name "ContosoVM"
```

```
Update-AzVM -ResourceGroupName "ContosoRG" -VM $vm
```

-AssignIdentity:	▼
-IdentityId:	

\$SystemAssigned	▼
\$UserAssigned	

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```

```
Update-AzVM -ResourceGroupName "ContosoRG" -VM $vm
```

-AssignIdentity:	▼
-IdentityId:	

\$SystemAssigned	▼
\$UserAssigned	

Box 1: -IdentityType -

Enable system-assigned managed identity on an existing Azure VM:

To enable a system-assigned managed identity, use the -IdentityType switch on the Update-AzVM cmdlet (see below).

Box 2: \$SystemAssigned -

```
$vm = Get-AzVM -ResourceGroupName myResourceGroup -Name myVM
```

```
Update-AzVM -ResourceGroupName myResourceGroup -VM $vm -IdentityType SystemAssigned
```

41) You create the following PowerShell script:

```
$source = New-AzScheduledQueryRuleSource -Query 'Heartbeat | where TimeGenerated > ago(1h)' -DataSourceId "contoso"
$schedule = New-AzScheduledQueryRuleSchedule -FrequencyInMinutes 60 -TimeWindowInMinutes 60
$triggerCondition = New-AzScheduledQueryRuleTriggerCondition -ThresholdOperator "LessThan" -Threshold 5
$aznsActionGroup = New-AzScheduledQueryRuleAznsActionGroup -ActionGroup "contoso" -EmailSubject "Custom email subject"
    -CustomWebhookPayload "{ \"alert\":\"#alertrulename\", \"IncludeSearchResults\":true }"
$alertingAction = New-AzScheduledQueryRuleAlertingAction -AznsAction $aznsActionGroup -Severity "3" -Trigger $triggerCondition
New-AzScheduledQueryRule -ResourceGroupName "contoso" -Location "eastus" -Action $alertingAction -Enabled $true
    -Description "Alert description" -Schedule $schedule -Source $source -Name "Alert Name"
```

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

### Answer Area

Statements	Yes	No
------------	-----	----

A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.

A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.

The log alert is scheduled to run every two hours.

41) You create the following PowerShell script:

```
$source = New-AzScheduledQueryRuleSource -Query 'Heartbeat | where TimeGenerated > ago(1h)' -DataSourceId "contoso"
$schedule = New-AzScheduledQueryRuleSchedule -FrequencyInMinutes 60 -TimeWindowInMinutes 60
$triggerCondition = New-AzScheduledQueryRuleTriggerCondition -ThresholdOperator "LessThan" -Threshold 5
$aznsActionGroup = New-AzScheduledQueryRuleAznsActionGroup -ActionGroup "contoso" -EmailSubject "Custom email subject"
    -CustomWebhookPayload "{ ""alert"":""#alertrulename"", ""IncludeSearchResults"":true }"
$alertingAction = New-AzScheduledQueryRuleAlertingAction -AznsAction $aznsActionGroup -Severity "3" -Trigger $triggerCondition
New-AzScheduledQueryRule -ResourceGroupName "contoso" -Location "eastus" -Action $alertingAction -Enabled $true
    -Description "Alert description" -Schedule $schedule -Source $source -Name "Alert Name"
```

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42) You are developing an Azure Function app.

The app must meet the following requirements:

- ☞ Enable developers to write the functions by using the Rust language.
- ☞ Declaratively connect to an Azure Blob Storage account.

You need to implement the app.

Which Azure Function app features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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.

Features	Answer Area
Custom handler	
Extension bundle	
Trigger	
Runtime	
Policy	
Hosting plan	
Requirement	Feature
Enable developers to write the functions by using the Rust language.	
Declaratively connect to an Azure Blob Storage account.	

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Features	Answer Area
Extension bundle	Requirement
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**Features**

Extension bundle
Runtime
Policy
Hosting plan

**Answer Area****Requirement**

Enable developers to write the functions by using the Rust language.

Declaratively connect to an Azure Blob Storage account.

**Feature**

Custom handler
----------------

Trigger
---------

Custom handlers can be used to create functions in any language or runtime by running an HTTP server process, for example Go or Rust.

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43) You are developing an ASP.NET Core web application. You plan to deploy the application to Azure Web App for Containers.

The application needs to store runtime diagnostic data that must be persisted across application restarts. You have the following code:

```
public void SaveDiagData(string data)
{
    var path = Environment.GetEnvironmentVariable("DIAGDATA");
    File.WriteAllText(Path.Combine(path, "data"), data);
}
```

You need to configure the application settings so that diagnostic data is stored as required.

How should you configure the web app's settings? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

### App setting

LOCALAPPDATA
WEBSITE_LOCALCACHE_ENABLED
DOTNET_HOSTING_OPTIMIZATION_CACHE
WEBSITES_ENABLE_APP_SERVICE_STORAGE
<b>DIAGDATA</b>

### Value

true

/home
/local
D:\home
D:\local

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## Answer Area

App setting	Value
LOCALAPPDATA WEBSITE_LOCALCACHE_ENABLED DOTNET_HOSTING_OPTIMIZATION_CACHE WEBSITES_ENABLE_APP_SERVICE_STORAGE  DIAGDATA	true  /home /local D:\home D:\local

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44) You are developing a web app that is protected by Azure Web Application Firewall (WAF). All traffic to the web app is routed through an Azure Application

Gateway instance that is used by multiple web apps. The web app address is contoso.azurewebsites.net.

All traffic must be secured with SSL. The Azure Application Gateway instance is used by multiple web apps.

You need to configure the Azure Application Gateway for the web app.

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

NOTE: Each correct selection is worth one point.

- A. In the Azure Application Gateway's HTTP setting, enable the Use for App service setting.
- B. Convert the web app to run in an Azure App service environment (ASE).
- C. Add an authentication certificate for contoso.azurewebsites.net to the Azure Application Gateway.
- D. In the Azure Application Gateway's HTTP setting, set the value of the Override backend path option to contoso22.azurewebsites.net.

44) You are developing a web app that is protected by Azure Web Application Firewall (WAF). All traffic to the web app is routed through an Azure Application Gateway instance that is used by multiple web apps. The web app address is contoso.azurewebsites.net. All traffic must be secured with SSL. The Azure Application Gateway instance is used by multiple web apps. You need to configure the Azure Application Gateway for the web app. Which two actions should you perform? Each correct answer presents part of the solution.

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- •A. In the Azure Application Gateway's HTTP setting, enable the Use for App service setting.
- B. Convert the web app to run in an Azure App service environment (ASE).
- C. Add an authentication certificate for contoso.azurewebsites.net to the Azure Application Gateway.
- •D. In the Azure Application Gateway's HTTP setting, set the value of the Override backend path option to contoso22.azurewebsites.net.

**Correct Answer:** AD

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- B. Convert the web app to run in an Azure App service environment (ASE).
- C. Add an authentication certificate for contoso.azurewebsites.net to the Azure Application Gateway.
- •D. In the Azure Application Gateway's HTTP setting, set the value of the Override backend path option to contoso22.azurewebsites.net.

**Correct Answer:** AD

45) You develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure

Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Use the Azure Blob Storage change feed to trigger photo processing.

Does the solution meet the goal?

- A. Yes
- B. No

45) You develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure

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You need to design the process that starts the photo processing.

Solution: Use the Azure Blob Storage change feed to trigger photo processing.

Does the solution meet the goal?

- A. Yes
- B. No



**Correct Answer: B**

The change feed is a log of changes that are organized into hourly segments but appended to and updated every few minutes. These segments are created only when there are blob change events that occur in that hour.

Instead catch the triggered event, so move the photo processing to an Azure Function triggered from the blob upload.

46) You are developing a web application that runs as an Azure Web App. The web application stores data in Azure SQL Database and stores files in an Azure Storage account. The web application makes HTTP requests to external services as part of normal operations. The web application is instrumented with Application Insights. The external services are OpenTelemetry compliant. You need to ensure that the customer ID of the signed in user is associated with all operations throughout the overall system. What should you do?

- A. Add the customer ID for the signed in user to the CorrelationContext in the web application
- B. On the current SpanContext, set the Traceld to the customer ID for the signed in user
- C. Set the header Ocp-Apim-Trace to the customer ID for the signed in user
- D. Create a new SpanContext with the TraceFlags value set to the customer ID for the signed in user

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**Correct Answer:** A

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47) You are developing an Azure Function App. You develop code by using a language that is not supported by the Azure Function App host. The code language supports HTTP primitives.  
You must deploy the code to a production Azure Function App environment.  
You need to configure the app for deployment.  
Which configuration values should you use? To answer, select the appropriate options in the answer area.

## Answer Area

Configuration parameter	Configuration value
Publish	<div style="border: 1px solid black; padding: 5px; width: fit-content;"><div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>Code<div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>Docker Container</div>
Runtime stack	<div style="border: 1px solid black; padding: 5px; width: fit-content;"><div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>Node.js<div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>Python<div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>PowerShell Core<div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>Custom Handler</div>
Version	<div style="border: 1px solid black; padding: 5px; width: fit-content;"><div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>14 LTS<div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>7.0<div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;"></div>custom</div>

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## Answer Area

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Runtime stack	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"><ul style="list-style-type: none"><li>Node.js</li><li>Python</li><li>PowerShell Core</li><li>Custom Handler</li></ul></div>
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48) You provision virtual machines (VMs) as development environments.

One VM does not start. The VM is stuck in a Windows update process. You attach the OS disk for the affected VM to a recovery VM.

You need to correct the issue.

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

## Actions

Run the following command at an elevated command prompt:

```
dism /image:\ /get=packages > c:\temp\Patch.txt
```

Run the following command at an elevated command prompt:

```
dism /Image:<Attached OS disks>:\ /Remove  
Package /PackageName:<package name to delete>
```

Detach the OS disk and recreate the VM

Open C:\temp\Patch.txt file and locate the update that is in a pending state

## Answer Area



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49) You develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data.

You need to ensure the app does not time out and processes the blob data.

Solution: Update the functionTimeout property of the host.json project file to 10 minutes.

Does the solution meet the goal?

- A. Yes
- B. No

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- •B. No

**Correct Answer: B**

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**Correct Answer: B**

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Solution: Update the functionTimeout property of the host.json project file to 10 minutes.

Does the solution meet the goal?

- A. Yes
- •B. No

**Correct Answer: B**

Instead pass the HTTP trigger payload into an Azure Service Bus queue to be processed by a queue trigger function and return an immediate HTTP success response.

Note: Large, long-running functions can cause unexpected timeout issues. General best practices include:

Whenever possible, refactor large functions into smaller function sets that work together and return responses fast. For example, a webhook or HTTP trigger function might require an acknowledgment response within a certain time limit; it's common for webhooks to require an immediate response. You can pass the HTTP trigger payload into a queue to be processed by a queue trigger function. This approach lets you defer the actual work and return an immediate response.

50) You are authoring a set of nested Azure Resource Manager templates to deploy multiple Azure resources. The templates must be tested before deployment and must follow recommended practices. You need to validate and test the templates before deployment. Which tools should you use? To answer, drag the appropriate tools to the correct requirements. 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	Answer Area	Requirement	Tool
Parameter file		Determine whether the templates follow recommended practices.	
Template function			
Azure Resource Manager test toolkit			
User-defined function		Test and validate changes that templates will make to the environment.	
What-if operation			
Azure Deployment Manager			

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What-if operation			
Azure Deployment Manager			

The Azure Resource Manager template (ARM template) test toolkit checks whether your template uses recommended practices. When your template isn't compliant with recommended practices, it returns a list of warnings with the suggested changes. By using the test toolkit, you can learn how to avoid common problems in template development. Before deploying an Azure Resource Manager template (ARM template), you can preview the changes that will happen. Azure Resource Manager provides the what-if operation to let you see how resources will change if you deploy the template. The what-if operation doesn't make any changes to existing resources. Instead, it predicts the changes if the specified template is deployed.

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51) You are developing a solution that uses the Azure Storage Client library for .NET. You have the following code: (Line numbers are included for reference only.)

```
01 CloudBlockBlob src = null;
02 try
03 {
04     src = container.ListBlobs().OfType<CloudBlockBlob>().FirstOrDefault();
05     var id = await src.AcquireLeaseAsync(null);
06     var dst = container.GetBlockBlobReference(src.Name);
07     string cpid = await dst.StartCopyAsync(src);
08     await dst.FetchAttributeAsync();
09     return id;
10 }
11 catch (Exception e)
12 {
13     throw;
14 }
15 finally
16 {
17     if (src != null)
18         await src.FetchAttributesAsync();
19     if (src.Properties.LeaseState != LeaseState.Available)
20         await src.BreakLeaseAsync(new TimeSpan(0));
21 }
```

For each of the following statements,  
select Yes if the statement is true.

Otherwise, select No.

## Answer Area

Statement	Yes	No
The code creates an infinite lease	<input type="radio"/>	<input type="radio"/>
The code at line 06 always creates a new blob	<input type="radio"/>	<input type="radio"/>
The finally block releases the lease	<input type="radio"/>	<input type="radio"/>

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06     var dst = container.GetBlockBlobReference(src.Name);
07     string cpid = await dst.StartCopyAsync(src);
08     await dst.FetchAttributeAsync();
09     return id;
10 }
11 catch (Exception e)
12 {
13     throw;
14 }
15 finally
16 {
17     if (src != null)
18         await src.FetchAttributesAsync();
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52) You are building a website that uses Azure Blob storage for data storage. You configure Azure Blob storage lifecycle to move all blobs to the archive tier after 30 days.

Customers have requested a service-level agreement (SLA) for viewing data older than 30 days.

You need to document the minimum SLA for data recovery.

Which SLA should you use?

- A. at least two days
- B. between one and 15 hours
- C. at least one day
- D. between zero and 60 minutes

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**Correct Answer:** B

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**Correct Answer:** *B*

The archive access tier has the lowest storage cost. But it has higher data retrieval costs compared to the hot and cool tiers. Data in the archive tier can take several hours to retrieve depending on the priority of the rehydration. For small objects, a high priority rehydrate may retrieve the object from archive in under 1 hour.

53) You have an application that uses Azure Blob storage.

You need to update the metadata of the blobs.

Which three methods should you use to develop the solution? To answer, move the appropriate methods from the list of methods to the answer area and arrange them in the correct order.

## Methods

Metadata.Add

SetMetadataAsync

FetchAttributesAsync

UploadFileStream

SetPropertiesAsync

## Answer Area

53) You have an application that uses Azure Blob storage.

You need to update the metadata of the blobs.

Which three methods should you use to develop the solution? To answer, move the appropriate methods from the list of methods to the answer area and arrange them in the correct order.

Metadata.Add example:

```
// Add metadata to the dictionary by  
calling the Add method  
metadata.Add("docType",  
"textDocuments");
```

SetMetadataAsync example:

```
// Set the blob's metadata.  
await  
blob.SetMetadataAsync(metadata);  
// Set the blob's properties.  
await blob.SetPropertiesAsync();
```

## Methods

<b>FetchAttributesAsync</b>
<b>UploadFileStream</b>

## Answer Area

Metadata.Add
SetMetadataAsync
SetPropertiesAsync

54) You are maintaining an existing application that uses an Azure Blob GPv1 Premium storage account. Data older than three months is rarely used.

Data newer than three months must be available immediately. Data older than a year must be saved but does not need to be available immediately.

You need to configure the account to support a lifecycle management rule that moves blob data to archive storage for data not modified in the last year.

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**

Upgrade the storage account to GPv2

Create a new GPv2 Standard account and set its default access tier level to cool

Change the storage account access tier from hot to cool

Copy the data to be archived to a Standard GPv2 storage account and then delete the data from the original storage account

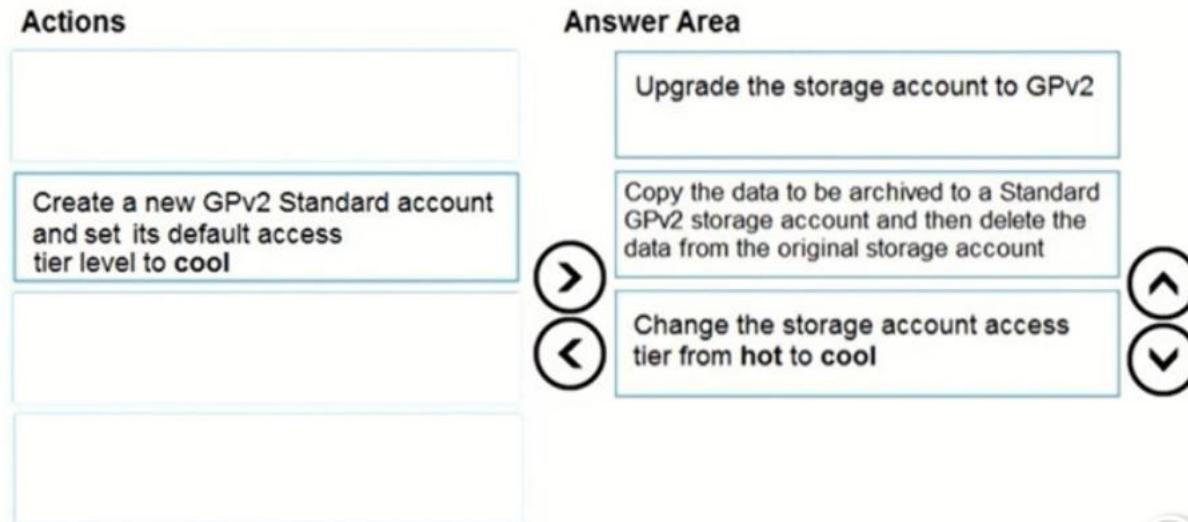
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55) You develop Azure solutions.

You must connect to a No-SQL globally-distributed database by using the .NET API.

You need to create an object to configure and execute requests in the database.

Which code segment should you use?

- A. new Container(EndpointUri, PrimaryKey);
- B. new Database(EndpointUri, PrimaryKey);
- C. new CosmosClient(EndpointUri, PrimaryKey);

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**Correct Answer: C**

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Which code segment should you use?

- A. new Container(EndpointUri, PrimaryKey);
- B. new Database(EndpointUri, PrimaryKey);
- C. new CosmosClient(EndpointUri, PrimaryKey);



**Correct Answer: C**

Example:

```
// Create a new instance of the Cosmos Client  
this.cosmosClient = new CosmosClient(EndpointUri, PrimaryKey)  
//ADD THIS PART TO YOUR CODE  
await this.CreateDatabaseAsync();
```

56) You have an existing Azure storage account that stores large volumes of data across multiple containers. You need to copy all data from the existing storage account to a new storage account. The copy process must meet the following requirements:

- ☞ Automate data movement.
- ☞ Minimize user input required to perform the operation.
- ☞ Ensure that the data movement process is recoverable.

What should you use?

- A. AzCopy
- B. Azure Storage Explorer
- C. Azure portal
- D. .NET Storage Client Library

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**Correct Answer: A**

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What should you use?



- A. AzCopy
- B. Azure Storage Explorer
- C. Azure portal
- D. .NET Storage Client Library

**Correct Answer: A**

You can copy blobs, directories, and containers between storage accounts by using the AzCopy v10 command-line utility. The copy operation is synchronous so when the command returns, that indicates that all files have been copied.

57) You are developing a web service that will run on Azure virtual machines that use Azure Storage. You configure all virtual machines to use managed identities.

You have the following requirements:

- ☞ Secret-based authentication mechanisms are not permitted for accessing an Azure Storage account.
- ☞ Must use only Azure Instance Metadata Service endpoints.

You need to write code to retrieve an access token to access Azure Storage. To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once or not at all. You may need to drag the split bar between panes or scroll to view content.

**Code segment 1****Code segment 2****Answer Area**

```
var url = "  " ;  
  
var queryString = "...";  
var client = new HttpClient();  
var response = await client.GetAsync(url + queryString);  
var payload = await response.Content.ReadAsStringAsync();
```

```
return 
```

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#### Code segment 1

`http://localhost:50342/oauth2/token`

`http://169.254.169.254:50432/oauth2/token`

`http://localhost/metadata/identity/oauth2/token`

#### Code segment 2

`XDocument.Parse(payload);`

`new MultipartContent(payload);`

`new NetworkCredential("Azure", payload);`

#### Answer Area

`var url = " http://169.254.169.254/metadata/identity/oauth2/token " ;`

```
var queryString = "...";
var client = new HttpClient();
var response = await client.GetAsync(url + queryString);
var payload = await response.Content.ReadAsStringAsync();
```

`return JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);`

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58) You are building a traffic monitoring system that monitors traffic along six highways. The system produces time series analysis-based reports for each highway.

Data from traffic sensors are stored in Azure Event Hub.

Traffic data is consumed by four departments. Each department has an Azure Web App that displays the time series-based reports and contains a WebJob that processes the incoming data from Event Hub. All Web Apps run on App Service Plans with three instances.

Data throughput must be maximized. Latency must be minimized.

You need to implement the Azure Event Hub.

Which settings should you use? To answer, select the appropriate options in the answer area.

## Answer Area

Setting	Value
Number of partitions	<input type="button" value="▼"/>
	<input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="6"/> <input type="button" value="12"/>
Partition Key	<input type="button" value="▼"/>
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Timestamp					
VM name					

The number of partitions is specified at creation and must be between 2 and 32.  
There are 6 highways.

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59) You are developing a microservices solution. You plan to deploy the solution to a multinode Azure Kubernetes Service (AKS) cluster.

You need to deploy a solution that includes the following features:

- ☛ reverse proxy capabilities
- ☛ configurable traffic routing
- ☛ TLS termination with a custom certificate

Which components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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.

## Answer Area

Components	Action	Component
Helm		
Draft	Deploy solution.	
Brigade	View cluster and external IP addressing.	
KubeCtl	Implement a single, public IP endpoint that is routed to multiple microservices.	
Ingress Controller		
CoreDNS		
Virtual Kubelet		

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60) Your company has several websites that use a company logo image. You use Azure Content Delivery Network (CDN) to store the static image.

You need to determine the correct process of how the CDN and the Point of Presence (POP) server will distribute the image and list the items in the correct order.

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

**Actions**

If no edge servers in the POP have the image in cache, the POP requests the file from the origin server.

A user requests the image from the CDN URL. The DNS routes the request to the best performing POP location.

Subsequent requests for the file may be directed to the same POP using the CDN logo image URL. The POP edge server returns the file from cache if the TTL has not expired.

The origin server returns the logo image to an edge server in the POP. An edge server in the POP caches the logo image and returns the image to the client.

**Answer Area**

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

## Actions

If no edge servers in the POP have the image in cache, the POP requests the file from the origin server.

A user requests the image from the CDN URL. The DNS routes the request to the best performing POP location.

Subsequent requests for the file may be directed to the same POP using the CDN logo image URL. The POP edge server returns the file from cache if the TTL has not expired.

The origin server returns the logo image to an edge server in the POP. An edge server in the POP caches the logo image and returns the image to the client.

## Answer Area

A user requests the image from the CDN URL. The DNS routes the request to the best performing POP location.

If no edge servers in the POP have the image in cache, the POP requests the file from the origin server.

The origin server returns the logo image to an edge server in the POP. An edge server in the POP caches the logo image and returns the image to the client.

Subsequent requests for the file may be directed to the same POP using the CDN logo image URL. The POP edge server returns the file from cache if the TTL has not expired.



61) You are developing an Azure Cosmos DB solution by using the Azure Cosmos DB SQL API. The data includes millions of documents. Each document may contain hundreds of properties.

The properties of the documents do not contain distinct values for partitioning. Azure Cosmos DB must scale individual containers in the database to meet the performance needs of the application by spreading the workload evenly across all partitions over time.

You need to select a partition key.

Which two partition keys can you use? Each correct answer presents a complete solution.

- A. a single property value that does not appear frequently in the documents
- B. a value containing the collection name
- C. a single property value that appears frequently in the documents
- D. a concatenation of multiple property values with a random suffix appended
- E. a hash suffix appended to a property value

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**Correct Answer: DE**

You can form a partition key by concatenating multiple property values into a single artificial partitionKey property. These keys are referred to as synthetic keys.

Another possible strategy to distribute the workload more evenly is to append a random number at the end of the partition key value. When you distribute items in this way, you can perform parallel writes across partitions.

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62) You develop an Azure solution that uses Cosmos DB.

The current Cosmos DB container must be replicated and must use a partition key that is optimized for queries.

You need to implement a change feed processor solution.

Which change feed processor components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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 the content.

NOTE: Each correct selection is worth one point.

## Components

- Host
- Delegate
- Lease container
- Monitored container

## Answer Area

### Requirement

Store the data from which the change feed is generated.

Coordinate processing of the change feed across multiple workers.

Use the change feed processor to listen for changes.

Handle each batch of changes.

### Component

- Component
- Component
- Component
- Component

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## Components

- 
- 
- 
- 

## Answer Area

### Requirement

Store the data from which the change feed is generated.

Coordinate processing of the change feed across multiple workers.

Use the change feed processor to listen for changes.

Handle each batch of changes.

### Component

Monitored container

Lease container

Host

Delegate

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63) You develop and deploy a web application to Azure App Service. The application accesses data stored in an Azure Storage account. The account contains several containers with several blobs with large amounts of data. You deploy all Azure resources to a single region.  
You need to move the Azure Storage account to the new region. You must copy all data to the new region.  
What should you do first?

- A. Export the Azure Storage account Azure Resource Manager template
- B. Initiate a storage account failover
- C. Configure object replication for all blobs
- D. Use the AzCopy command line tool
- E. Create a new Azure Storage account in the current region
- F. Create a new subscription in the current region

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**Correct Answer:** A

63) You develop and deploy a web application to Azure App Service. The application accesses data stored in an Azure Storage account. The account contains several containers with several blobs with large amounts of data. You deploy all Azure resources to a single region.  
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  - D. Use the AzCopy command line tool
  - E. Create a new Azure Storage account in the current region
  - F. Create a new subscription in the current region

**Correct Answer:** A

To move a storage account, create a copy of your storage account in another region. Then, move your data to that account by using AzCopy, or another tool of your choice and finally, delete the resources in the source region.

To get started, export, and then modify a Resource Manager template.

64) You are developing an application to collect the following telemetry data for delivery drivers: first name, last name, package count, item id, and current location coordinates. The app will store the data in Azure Cosmos DB.

You need to configure Azure Cosmos DB to query the data.

Which values should you use? To answer, select the appropriate options in the answer area.

## Answer Area

### Configuration Parameter

Azure Cosmos DB API

### Value

	▼
Gremlin	
Table API	
Core (SQL)	

### Azure Cosmos DB partition key

	▼
first name	
last name	
package count	
item id	

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	▼										
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65) You are implementing an Azure solution that uses Azure Cosmos DB and the latest Azure Cosmos DB SDK. You add a change feed processor to a new container instance.

You attempt to read a batch of 100 documents. The process fails when reading one of the documents. The solution must monitor the progress of the change feed processor instance on the new container as the change feed is read. You must prevent the change feed processor from retrying the entire batch when one document cannot be read.

You need to implement the change feed processor to read the documents.

Which features should you use? To answer, drag the appropriate features to the cored requirements. Each feature 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.

Features	Answer Area	Requirement	Feature
Change feed estimator		Monitor the progress of the change feed processor	
Dead-letter queue		Prevent the change feed processor from retrying the entire batch when one document cannot be read	
Deployment unit			
Lease container			

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Requirement	Feature
Change feed estimator	
Dead-letter queue	Monitor the progress of the change feed processor
Deployment unit	Prevent the change feed processor from retrying the entire batch when one document cannot be read
Lease container	

66) An organization deploys Azure Cosmos DB.

You need to ensure that the index is updated as items are created, updated, or deleted.

What should you do?

- A. Set the indexing mode to Lazy.
- B. Set the value of the automatic property of the indexing policy to False.
- C. Set the value of the EnableScanInQuery option to True.
- D. Set the indexing mode to Consistent.

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- C. Set the value of the EnableScanInQuery option to True.
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**Correct Answer: D**

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- B. Set the value of the automatic property of the indexing policy to False.
- C. Set the value of the EnableScanInQuery option to True.
- D. Set the indexing mode to Consistent.



## Correct Answer: D

Azure Cosmos DB supports two indexing modes:

Consistent: The index is updated synchronously as you create, update or delete items. This means that the consistency of your read queries will be the consistency configured for the account.

67) You are developing a .Net web application that stores data in Azure Cosmos DB. The application must use the Core API and allow millions of reads and writes.

The Azure Cosmos DB account has been created with multiple write regions enabled. The application has been deployed to the East US2 and Central US regions.

You need to update the application to support multi-region writes.

What are two possible ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Update the ConnectionPolicy class for the Cosmos client and populate the PreferredLocations property based on the geo-proximity of the application.
- B. Update Azure Cosmos DB to use the Strong consistency level. Add indexed properties to the container to indicate region.
- C. Update the ConnectionPolicy class for the Cosmos client and set the UseMultipleWriteLocations property to true.
- D. Create and deploy a custom conflict resolution policy.
- E. Update Azure Cosmos DB to use the Session consistency level. Send the SessionToken property value from the FeedResponse object of the write action to the end-user by using a cookie.

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- •D. Create and deploy a custom conflict resolution policy.
- E. Update Azure Cosmos DB to use the Session consistency level. Send the SessionToken property value from the FeedResponse object of the write action to the end-user by using a cookie.

**Correct Answer:** CD

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68) You are developing a solution to store documents in Azure Blob storage. Customers upload documents to multiple containers. Documents consist of PDF, CSV, Microsoft Office format and plain text files.

The solution must process millions of documents across hundreds of containers. The solution must meet the following requirements:

- ☞ Documents must be categorized by a customer identifier as they are uploaded to the storage account.
- ☞ Allow filtering by the customer identifier.
- ☞ Allow searching of information contained within a document
- ☞ Minimize costs.

You create and configure a standard general-purpose v2 storage account to support the solution.

You need to implement the solution.

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

## Answer Area

### Requirement

Search and filter by customer identifier

### Solution

Azure Cognitive Search
Azure Blob index tags
Azure Blob inventory policy
Azure Blob metadata

Search information inside documents

Azure Cognitive Search
Azure Blob index tags
Azure Blob inventory policy
Azure Blob metadata

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### Solution

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Azure Blob index tags
Azure Blob inventory policy
Azure Blob metadata

Search information inside documents

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69) You are developing a web application by using the Azure SDK. The web application accesses data in a zone-redundant BlockBlobStorage storage account.

The application must determine whether the data has changed since the application last read the data. Update operations must use the latest data changes when writing data to the storage account.

You need to implement the update operations.

Which values should you use? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

### Code evaluation

HTTP Header value

### Value

▼
ETag
Last Modified
VersionId

Conditional header

▼
If-Match
If-Modified-Since
If-None-Match

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70) An organization deploys a blob storage account. Users take multiple snapshots of the blob storage account over time.

You need to delete all snapshots of the blob storage account. You must not delete the blob storage account itself.

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

## Answer Area

delete\_blob (

delete_container
delete_snapshots
snapshot_blob
snapshots_present

=

False
Include
Only

)

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## Answer Area

delete\_blob (

delete_container
delete_snapshots
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snapshots_present

=

False
Include
Only

)

Box 1: delete\_snapshots -

```
# Delete only the snapshot (blob itself is retained)
blob_client.delete_blob(delete_snapshots="only")
```

71) You are developing a Java application that uses Cassandra to store key and value data. You plan to use a new Azure Cosmos DB resource and the Cassandra API in the application. You create an Azure Active Directory (Azure AD) group named Cosmos DB Creators to enable provisioning of Azure Cosmos accounts, databases, and containers. The Azure AD group must not be able to access the keys that are required to access the data. You need to restrict access to the Azure AD group. Which role-based access control should you use?

- A. DocumentDB Accounts Contributor
- B. Cosmos Backup Operator
- C. Cosmos DB Operator
- D. Cosmos DB Account Reader

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**Correct Answer:** C

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- C. Cosmos DB Operator
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**Correct Answer:** C

Azure Cosmos DB now provides a new RBAC role, Cosmos DB Operator. This new role lets you provision Azure Cosmos accounts, databases, and containers, but can't access the keys that are required to access the data. This role is intended for use in scenarios where the ability to grant access to Azure Active Directory service principals to manage deployment operations for Cosmos DB is needed, including the account, database, and containers.

72) You are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization.

Solution: Configure the Azure Web App for the website to allow only authenticated requests and require Azure AD log on.

Does the solution meet the goal?

- A. Yes
- B. No

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Does the solution meet the goal?

- A. Yes
- B. No



**Correct Answer: B**

Instead in the Azure AD application's manifest, set value of the groupMembershipClaims option to All.

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You need to configure authorization.

Solution:

- ☞ Create a new Azure AD application. In the application's manifest, set value of the groupMembershipClaims option to All.
- ☞ In the website, use the value of the groups claim from the JWT for the user to determine permissions.

Does the solution meet the goal?

- A. Yes
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Does the solution meet the goal?



- A. Yes
- B. No

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74) You are developing an application to securely transfer data between on-premises file systems and Azure Blob storage. The application stores keys, secrets, and certificates in Azure Key Vault. The application uses the Azure Key Vault APIs.

The application must allow recovery of an accidental deletion of the key vault or key vault objects. Key vault objects must be retained for 90 days after deletion.

You need to protect the key vault and key vault objects.

Which Azure Key Vault feature should you use? To answer, drag the appropriate features to the correct actions. Each feature 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.

Features	Answer Area	Action	Feature
Access policy		Enable retention period and accidental deletion.	Feature
Purge protection			Feature
Soft delete		Enforce retention period and accidental deletion.	Feature
Shared access signature			

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Features	Answer Area	Action	Feature
Access policy		Enable retention period and accidental deletion.	Soft delete
Purge protection		Enforce retention period and accidental deletion.	Purge protection
Soft delete			
Shared access signature			

When soft-delete is enabled, resources marked as deleted resources are retained for a specified period (90 days by default). The service further provides a mechanism for recovering the deleted object, essentially undoing the deletion.

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75) You are developing an ASP.NET Core website that can be used to manage photographs which are stored in Azure Blob Storage containers.

Users of the website authenticate by using their Azure Active Directory (Azure AD) credentials.

You implement role-based access control (RBAC) role permissions on the containers that store photographs. You assign users to RBAC roles.

You need to configure the website's Azure AD Application so that user's permissions can be used with the Azure Blob containers.

How should you configure the application? To answer, drag the appropriate setting to the correct location. Each setting can 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.

Settings
client_id
profile
delegated
application
user_impersonation

## Answer Area

API	Permission	Type
Azure Storage	user_impersonation	delegated
Microsoft Graph	User.Read	delegated

76) You are developing a medical records document management website. The website is used to store scanned copies of patient intake forms.

If the stored intake forms are downloaded from storage by a third party, the contents of the forms must not be compromised.

You need to store the intake forms according to the requirements.

Solution:

1. Create an Azure Key Vault key named skey.
2. Encrypt the intake forms using the public key portion of skey.
3. Store the encrypted data in Azure Blob storage.

Does the solution meet the goal?

- A. Yes
- B. No

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**Correct Answer: A**

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Solution: Store the intake forms as Azure Key Vault secrets.

Does the solution meet the goal?

- A. Yes
- B. No

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Solution: Store the intake forms as Azure Key Vault secrets.

Does the solution meet the goal?

- A. Yes
- B. No



**Correct Answer: B**

77) You are developing a medical records document management website. The website is used to store scanned copies of patient intake forms.

If the stored intake forms are downloaded from storage by a third party, the contents of the forms must not be compromised.

You need to store the intake forms according to the requirements.

Solution: Store the intake forms as Azure Key Vault secrets.

Does the solution meet the goal?

- A. Yes
- B. No



**Correct Answer: B**

Instead use an Azure Key vault and public key encryption. Store the encrypted form in Azure Storage Blob storage.

78) Your company is developing an Azure API hosted in Azure.

You need to implement authentication for the Azure API to access other Azure resources. You have the following requirements:

- All API calls must be authenticated.
- Callers to the API must not send credentials to the API.

Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate

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You need to implement authentication for the Azure API to access other Azure resources. You have the following requirements:

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Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate



**Correct Answer: C**

78) Your company is developing an Azure API hosted in Azure.

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Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate



**Correct Answer: C**

Azure Active Directory Managed Service Identity (MSI) gives your code an automatically managed identity for authenticating to Azure services, so that you can keep credentials out of your code.

Note: Use the authentication-managed-identity policy to authenticate with a backend service using the managed identity. This policy essentially uses the managed identity to obtain an access token from Azure Active Directory for accessing the specified resource. After successfully obtaining the token, the policy will set the value of the token in the Authorization header using the Bearer scheme.

79) You are developing an application. You have an Azure user account that has access to two subscriptions. You need to retrieve a storage account key secret from Azure Key Vault.

In which order should you arrange the PowerShell commands to develop the solution? To answer, move all commands from the list of commands to the answer area and arrange them in the correct order.

**Powershell commands**

```
$secretvalue = ConvertTo-SecureString  
$storAcctkey -AsPlainText  
-Force  
    Set-AzKeyVaultSecret -VaultName  
$vaultName -Name $secretName  
-SecretValue $secretvalue
```

```
Get-AzStorageAccountKey -  
ResourceGroupName $resGroup -Name  
$storAcct
```

```
Set-AzContext -SubscriptionId  
$subscriptionID
```

```
Get-AzKeyVaultSecret -VaultName  
$vaultName
```

```
Get-AzSubscription
```

**Answer Area**

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```

```
Get-AzStorageAccountKey -  
ResourceGroupName $resGroup -Name  
$storAcct
```

```
Set-AzContext -SubscriptionId  
$subscriptionID
```

```
Get-AzKeyVaultSecret -VaultName  
$vaultName
```

```
Get-AzSubscription
```

## Answer Area

```
Get-AzSubscription
```

```
Set-AzContext -SubscriptionId  
$subscriptionID
```

```
Get-AzStorageAccountKey -  
ResourceGroupName $resGroup -Name  
$storAcct
```

```
$secretvalue = ConvertTo-SecureString  
$storAcctkey -AsPlainText  
-Force  
    Set-AzKeyVaultSecret -VaultName  
$vaultName -Name $secretName  
-SecretValue $secretvalue
```

```
Get-AzKeyVaultSecret -VaultName  
$vaultName
```



80) You develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Use an X.509 certificate to authenticate the VM with Azure Resource Manager.

Does the solution meet the goal?

- A. Yes
- B. No

80) You develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Use an X.509 certificate to authenticate the VM with Azure Resource Manager.

Does the solution meet the goal?

- A. Yes
- B. No



**Correct Answer: B**

80) You develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Use an X.509 certificate to authenticate the VM with Azure Resource Manager.

Does the solution meet the goal?

- A. Yes
- B. No



**Correct Answer: B**

Instead run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

81) You are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization.

Solution:

- Configure and use Integrated Windows Authentication in the website.
- In the website, query Microsoft Graph API to load the groups to which the user is a member.

Does the solution meet the goal?

- A. Yes
- B. No

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- In the website, query Microsoft Graph API to load the groups to which the user is a member.

Does the solution meet the goal?

•A. Yes



•B. No

**Correct Answer: B**

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Solution:

- Configure and use Integrated Windows Authentication in the website.
- In the website, query Microsoft Graph API to load the groups to which the user is a member.

Does the solution meet the goal?

•A. Yes



•B. No

**Correct Answer: B**

Microsoft Graph is a RESTful web API that enables you to access Microsoft Cloud service resources.

Instead in the Azure AD application's manifest, set value of the groupMembershipClaims option to All. In the website, use the value of the groups claim from the JWT for the user to determine permissions.

82) You develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Does the solution meet the goal?

- A. Yes
- B. No

82) You develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Does the solution meet the goal?

- 
- A. Yes
  - B. No

**Correct Answer:** A

82) You develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Does the solution meet the goal?

- 
- A. Yes
  - B. No

**Correct Answer:** A

Get an access token using the VM's system-assigned managed identity and use it to call Azure Resource Manager

You will need to use PowerShell in this portion.

1. In the portal, navigate to Virtual Machines and go to your Windows virtual machine and in the Overview, click Connect.
2. Enter in your Username and Password for which you added when you created the Windows VM.
3. Now that you have created a Remote Desktop Connection with the virtual machine, open PowerShell in the remote session.
4. Using the Invoke-WebRequest cmdlet, make a request to the local managed identity for Azure resources endpoint to get an access token for Azure Resource Manager.

83) You are building a website to access project data related to teams within your organization. The website does not allow anonymous access. Authentication is performed using an Azure Active Directory (Azure AD) app named internal. The website has the following authentication requirements:

- Azure AD users must be able to login to the website.
- Personalization of the website must be based on membership in Active Directory groups.

You need to configure the application's manifest to meet the authentication requirements.

How should you configure the manifest? To answer, select the appropriate configuration in the answer area.

## Answer Area

```
{  
  ...  
  "appId": "d61126e3-089b-4adb-b721-d5023213df7d",  
  "displayName": "internal",  
  "optionalClaims": [{"name": "groupMembershipClaims", "value": "All"}, {"name": "otherOptionalClaims", "value": "true"}],  
  "groupMembershipClaims": "All",  
  "optionalClaims": [{"name": "otherOptionalClaims", "value": "true"}],  
  "allowPublicClient": false,  
  "oauth2Permissions": [{"value": "User.read.all"}],  
  "requiredResourceAccess": [{"resourceAppId": "d61126e3-089b-4adb-b721-d5023213df7d", "resourceAccess": [{"id": "User.read.all", "type": "DelegatedPermissionGrant"}]}],  
  "oauth2AllowImplicitFlow": true  
}
```

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  "displayName": "internal",  
  "optionalClaims": { "groupMembershipClaims": "All" },  
  "allowPublicClient": true,  
  "oauth2Permissions": [ "requiredResourceAccess", "oauth2AllowImplicitFlow" ]  
}
```

84) You develop an app that allows users to upload photos and videos to Azure storage. The app uses a storage REST API call to upload the media to a blob storage account named Account1. You have blob storage containers named Container1 and Container2.

Uploading of videos occurs on an irregular basis.

You need to copy specific blobs from Container1 to Container2 when a new video is uploaded. What should you do?

- A. Copy blobs to Container2 by using the Put Blob operation of the Blob Service REST API
- B. Create an Event Grid topic that uses the Start-AzureStorageBlobCopy cmdlet
- C. Use AzCopy with the Snapshot switch to copy blobs to Container2
- D. Download the blob to a virtual machine and then upload the blob to Container2

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- C. Use AzCopy with the Snapshot switch to copy blobs to Container2
- D. Download the blob to a virtual machine and then upload the blob to Container2

**Correct Answer: B**

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- C. Use AzCopy with the Snapshot switch to copy blobs to Container2
- D. Download the blob to a virtual machine and then upload the blob to Container2

**Correct Answer: B**

The Start-AzureStorageBlobCopy cmdlet starts to copy a blob.

85) You are developing an ASP.NET Core website that uses Azure FrontDoor. The website is used to build custom weather data sets for researchers. Data sets are downloaded by users as Comma Separated Value (CSV) files. The data is refreshed every 10 hours.

Specific files must be purged from the FrontDoor cache based upon Response Header values.

You need to purge individual assets from the Front Door cache.

Which type of cache purge should you use?

- A. single path
- B. wildcard
- C. root domain

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**Correct Answer:** A

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Which type of cache purge should you use?



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- C. root domain

**Correct Answer: A**

These formats are supported in the lists of paths to purge:

- Single path purge: Purge individual assets by specifying the full path of the asset (without the protocol and domain), with the file extension, for example, /  
[1]
- Wildcard purge: Asterisk (\*) may be used as a wildcard. Purge all folders, subfolders, and files under an endpoint with /\* in the path or purge all subfolders and files under a specific folder by specifying the folder followed by /\*, for example, /pictures/\*.
- Root domain purge: Purge the root of the endpoint with "/" in the path.

86) Your company is developing an Azure API.

You need to implement authentication for the Azure API. You have the following requirements:

All API calls must be secure.

☞ Callers to the API must not send credentials to the API.

Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
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**Correct Answer: C**

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All API calls must be secure.

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Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate



**Correct Answer: C**

Use the authentication-managed-identity policy to authenticate with a backend service using the managed identity of the API Management service. This policy essentially uses the managed identity to obtain an access token from Azure Active Directory for accessing the specified resource. After successfully obtaining the token, the policy will set the value of the token in the Authorization header using the Bearer scheme.

87) You are a developer for a SaaS company that offers many web services.

All web services for the company must meet the following requirements:

- ☞ Use API Management to access the services
- ☞ Use OpenID Connect for authentication
- ☞ Prevent anonymous usage

A recent security audit found that several web services can be called without any authentication.

Which API Management policy should you implement?

- A. jsonp
- B. authentication-certificate
- C. check-header
- D. validate-jwt

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- B. authentication-certificate
- C. check-header
- D. validate-jwt



**Correct Answer: D**

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Which API Management policy should you implement?

- A. jsonp
- B. authentication-certificate
- C. check-header
- D. validate-jwt



**Correct Answer: D**

Add the validate-jwt policy to validate the OAuth token for every incoming request.

88) Contoso.Ltd provides an API to customers by using Azure API Management (APIM). The API authorizes users with a JWT token.

You must implement response caching for the APIM gateway. The caching mechanism must detect the user ID of the client that accesses data for a given location and cache the response for that user ID.

You need to add the following policies to the policies file:

- a set-variable policy to store the detected user identity
- a cache-lookup-value policy
- a cache-store-value policy
- a find-and-replace policy to update the response body with the user profile information

To which policy section should you add the policies? To answer, drag the appropriate sections to the correct policies. Each section 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.

## Answer Area

Policy section	Policy	Policy section
	Set-variable	<input type="text"/>
Inbound	Cache-lookup-value	<input type="text"/>
Outbound	Cache-store-value	<input type="text"/>
	Find-and-replace	<input type="text"/>

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## Answer Area

Policy section	Policy	Policy section
	Set-variable	Inbound
Inbound	Cache-lookup-value	Inbound
Outbound	Cache-store-value	Outbound
	Find-and-replace	Outbound

89) You are developing an Azure solution.

You need to develop code to access a secret stored in Azure Key Vault.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct location. Each code segment 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.

**Code segments**

DefaultAzureCredential

ClientSecretCredential

CloudClients

SecretClient

**Answer Area**

```
string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");
var var2 = new Code segment ( new Uri(var1), new Code segment () );
```

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How should you complete the code segment? To answer, drag the appropriate code segments to the correct location. Each code segment 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.

**Code segments**

DefaultAzureCredential

ClientSecretCredential

CloudClients

SecretClient

**Answer Area**

```
string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");
var var2 = new SecretClient ( new Uri(var1), new DefaultAzureCredential());
```

90) You are developing an Azure-hosted application that must use an on-premises hardware security module (HSM) key.

The key must be transferred to your existing Azure Key Vault by using the Bring Your Own Key (BYOK) process. You need to securely transfer the key to Azure Key Vault.

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**

Generate a key transfer blob file by using the HSM vendor-provided tool.

Generate a Key Exchange Key (KEK).

Create a custom policy definition in Azure Policy.

Run the `az keyvault key import` Command.

Run the `az keyvault key restore` Command.

Retrieve the Key Exchange Key (KEK) public key.

**Answer Area**

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## Answer Area

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Retrieve the Key Exchange Key (KEK) public key.

Generate a key transfer blob file by using the HSM vendor-provided tool.

Run the `az keyvault key import` command.

91) You develop and deploy an Azure Logic app that calls an Azure Function app. The Azure Function app includes an OpenAPI (Swagger) definition and uses an Azure Blob storage account. All resources are secured by using Azure Active Directory (Azure AD). The Azure Logic app must securely access the Azure Blob storage account. Azure AD resources must remain if the Azure Logic app is deleted. You need to secure the Azure Logic app. What should you do?

- A. Create a user-assigned managed identity and assign role-based access controls.
- B. Create an Azure AD custom role and assign the role to the Azure Blob storage account.
- C. Create an Azure Key Vault and issue a client certificate.
- D. Create a system-assigned managed identity and issue a client certificate.
- E. Create an Azure AD custom role and assign role-based access controls.

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- C. Create an Azure Key Vault and issue a client certificate.
- D. Create a system-assigned managed identity and issue a client certificate.
- E. Create an Azure AD custom role and assign role-based access controls.

**Correct Answer:** A

# Thank you!!



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