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HOTSPOT -
You need to implement the bindings for the CheckUserContent function.
How should you complete the code segment? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
public static class CheckUserContent
{
    [FunctionName("CheckUserContent")]
    public static void Run(
        [QueueTrigger("userContent")]
        [BlobTrigger("userContent/{name}")]
        [CosmosDBTrigger("content", "userContent")]
        [Table("content", "userContent", "{name}")]
        string content,
        [Queue("userContent")]
        [CosmosDB("content", "userContent")]
        [Table("content", "userContent", "{name}")]
        [Blob("userContent/{name}", FileAccess.Write)]
        Stream output)
    {
        ...
    }
}
```

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        [Table("content", "userContent", "{name}")]
        string content,
        [Queue("userContent")]
        [CosmosDB("content", "userContent")]
        [Table("content", "userContent", "{name}")]
        [Blob("userContent/{name}", FileAccess.Write)]
        Stream output)
    {
        ...
    }
}
```

Box 1: [BlobTrigger(..)]
Box 2: [Blob(..)]
Azure Blob storage output binding for Azure Functions. The output binding allows you to modify and delete blob storage data in an Azure Function.
The attribute's constructor takes the path to the blob and a FileAccess parameter indicating read or write, as shown in the following example:

```
[FunctionName("ResizeImage")]
public static void Run(
[BlobTrigger("sample-images/{name}")] Stream image,
[Blob("sample-images-md/{name}", FileAccess.Write)] Stream imageSmall)
{
...
}
```

Scenario: You must create an Azure Function named CheckUserContent to perform the content checks.
The company's data science group built ContentAnalysisService which accepts user generated content as a string and returns a probable value for inappropriate content. Any values over a specific threshold must be reviewed by an employee of Contoso, Ltd.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-output

DRAG DROP -
You need to add YAML markup at line CS17 to ensure that the ContentUploadService can access Azure Storage access keys.
How should you complete the YAML markup? To answer, drag the appropriate YAML segments to the correct locations. Each YAML 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.
NOTE: Each correct selection is worth one point.
Select and Place:

YAML segments

- secret
- envVar
- secretValues
- volumes
- volumeMounts
- environmentVariables

Answer Area

```
YAML segment :
  - mountPath: /mnt/secrets
    name: accesskey
YAML segment :
  - name: accesskey
YAML segment :
    key:    TXkgZmlyc3Qgc2VjcmV0IEZPTwo=
```

DRAG DROP -
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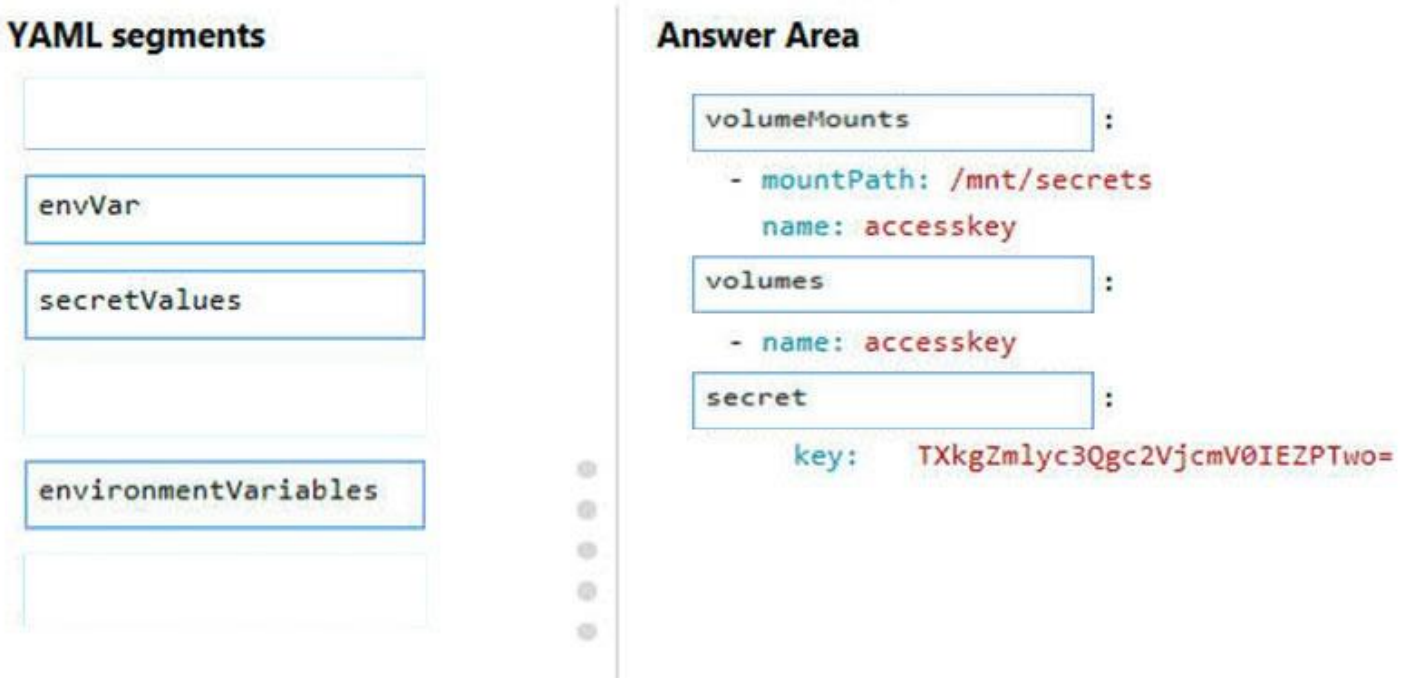
How should you complete the YAML markup? To answer, drag the appropriate YAML segments to the correct locations. Each YAML segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.
Select and Place:



Box 1: volumeMounts -
Example:
volumeMounts:
- mountPath: /mnt/secrets
name: secretvolume1
volumes:
- name: secretvolume1
secret:
mysecret1: TXkgZmlyc3Qgc2VjcmV0IEZPTwo=

Box 2: volumes -

Box 3: secret -
Reference:
https://docs.microsoft.com/en-us/azure/container-instances/container-instances-volume-secret

You need to investigate the http server log output to resolve the issue with the ContentUploadService.

Which command should you use first?

Options:

A.az webapp log

B.az ams live-output

C.az monitor activity-log

D.az container attach

You need to investigate the http server log output to resolve the issue with the ContentUploadService.

Which command should you use first?

Options:

A.az webapp log

B.az ams live-output

C.az monitor activity-log

D.az container attach

Correct Answer : **C**

Scenario: Users of the ContentUploadService report that they occasionally see HTTP 502 responses on specific pages.
"502 bad gateway" and "503 service unavailable" are common errors in your app hosted in Azure App Service.
Microsoft Azure publicizes each time there is a service interruption or performance degradation.
The az monitor activity-log command manages activity logs.
Note: Troubleshooting can be divided into three distinct tasks, in sequential order:
•Observe and monitor application behavior
•Collect data
•Mitigate the issue
Reference:, https://docs.microsoft.com/en-us/cli/azure/monitor/activity-log

DRAG DROP -

You develop and deploy a web app to Azure App Service in a production environment. You scale out the web app to four instances and configure a staging slot to support changes.

You must monitor the web app in the environment to include the following requirements:

☞ Increase web app availability by re-routing requests away from instances with error status codes and automatically replace instances if they remain in an error state after one hour.

☞ Send web server logs, application logs, standard output, and standard error messaging to an Azure Storage blob account.

You need to configure Azure App Service.

Which values should you use? To answer, drag the appropriate configuration value to the correct requirements.

Each configuration value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Configuration values

- Health check
- Diagnostic setting
- Deployment slot
- Autoscale rule
- Zone redundancy

Answer Area

Requirement	Configuration value
Increase availability	Configuration value
Send logs	Configuration value

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Select and Place:

Configuration values

- Health check
- Diagnostic setting
- Deployment slot
- Autoscale rule
- Zone redundancy

Answer Area

Requirement	Configuration value
Increase availability	Health check
Send logs	Diagnostic setting

Box 1: Health check -
Health check increases your application's availability by re-routing requests away from unhealthy instances, and replacing instances if they remain unhealthy. Your
App Service plan should be scaled to two or more instances to fully utilize Health check.

Box 2: Diagnostic setting -
Azure provides built-in diagnostics to assist with debugging an App Service app. With the new Azure Monitor integration, you can create Diagnostic Settings to send logs to Storage Accounts, Event Hubs and Log Analytics.
Reference:
https://docs.microsoft.com/en-us/azure/app-service/monitor-instances-health-check https://docs.microsoft.com/en-us/azure/app-service/troubleshoot-diagnostic-logs

You need to test the availability of the corporate website.

Which two test types can you use?

Options:

A.Custom testing using the TrackAvailability API method

B.Standard

C.URL Ping

D.Multi-step

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Which two test types can you use?

Options:

A. Custom testing using the TrackAvailability API method

B. Standard

C. URL Ping

D. Multi-step

Correct Answer : **A,B**

You need to reliably identify the delivery driver profile information.
How should you configure the system? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Configuration	Value
JSON web token (JWT) type	ID / Refresh / Access
Payload claim value	oid / aud / idp

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How should you configure the system? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Configuration	Value
JSON web token (JWT) type	ID / Refresh / Access
Payload claim value	oid / aud / idp

Box 1: **ID** -
Scenario: Store delivery driver profile information in Azure Active Directory (Azure AD) by using an Azure Function called from the corporate website.
ID token - A JWT that contains claims that you can use to identify users in your application. This token is securely sent in HTTP requests for communication between two components of the same application or service. You can use the claims in an ID token as you see fit. They're commonly used to display account information or to make access control decisions in an application. ID tokens are signed, but the're not encrypted. When your application or API receives an ID token, it must validate the signature to prove that the token is authentic. Your application or API must also validate a few claims in the token to prove that it's valid.
Depending on the scenario requirements, the claims validated by an application can vary, but your application must perform some common claim validations in every scenario.

Box 2: **Oid** -
Oid - The immutable identifier for the "principal" of the request - the user or service principal whose identity has been verified. In ID tokens and app+user tokens, this is the object ID of the user. In app-only tokens, this is the object ID of the calling service principal. It can also be used to perform authorization checks safely and as a key in database tables. This ID uniquely identifies the principal across applications - two different applications signing in the same user will receive the same value in the oid claim.
Incorrect:

Aud - Identifies the intended recipient of the token. For Azure AD B2C, the audience is the application ID. Your application should validate this value and reject the token if it doesn't match. Audience is synonymous with resource.
Idp - Records the identity provider that authenticated the subject of the token. This value is identical to the value of the Issuer claim unless the user account not in the same tenant as the issuer - guests, for instance. If the claim isn't present, it means that the value of iss can be used instead. For personal accounts being used in an organizational context (for instance, a personal account invited to an Azure AD tenant), the idp claim may be 'live.com' or an STS URI containing the
Microsoft account tenant.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory-b2c/tokens-overview https://docs.microsoft.com/en-us/azure/active-directory/develop/access-tokens

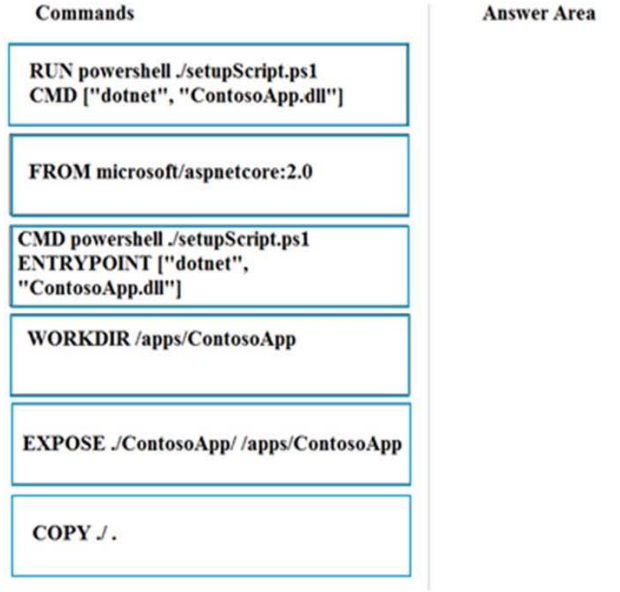
You plan to create a Docker image that runs as ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

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

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

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

Which four 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.



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Which four 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	Answer Area
RUN powershell ./setupScript.ps1 CMD ["dotnet", "ContosoApp.dll"]	FROM microsoft/aspnetcore:2.0
FROM microsoft/aspnetcore:2.0	WORKDIR /apps/ContosoApp
CMD powershell ./setupScript.ps1 ENTRYPOINT ["dotnet", "ContosoApp.dll"]	COPY ./ .
WORKDIR /apps/ContosoApp	RUN powershell ./setupScript.ps1 CMD ["dotnet", "ContosoApp.dll"]
EXPOSE ./ContosoApp/ /apps/ContosoApp	
COPY ./ .	

Step 1: WORKDIR /apps/ContosoApp
Step 2: COPY ./-
The Docker document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.
Step 3: EXPOSE ./ContosoApp/ /app/ContosoApp
Step 4: CMD powershell ./setupScript.ps1
ENTRYPOINT ["dotnet", "ContosoApp.dll"]
You need to create a Dockerfile document that meets the following requirements:
Call setupScript.ps1 when the container is built.
Run ContosoApp.dll when the container starts.
References:
https://docs.microsoft.com/ en-us/azure/app-service/containers/tutorial-custom-docker-image

You need to implement a solution to resolve the retail store location data issue.

Which three Azure Blob features should you enable? Each correct answer presents part of the solution.

NOTE Each correct selection is worth one point

Options:

A. Immutability

B. Snapshots

C. Versioning

D. Soft delete

E. Object replication

F. Change feed

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Options:

A. Immutability

B. Snapshots

C. Versioning

D. Soft delete

E. Object replication

F. Change feed

Correct Answers: **C, D, F**

Scenario: You must perform a point-in-time restoration of the retail store location data due to an unexpected and accidental deletion of data. Before you enable and configure point-in-time restore, enable its prerequisites for the storage account: soft delete, change feed, and blob versioning.
Reference:, https://docs.microsoft.com/en-us/azure/storage/blobs/point-in-time-restore-manage

HOTSPOT -
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.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Configuration Parameter	Value
Azure Cosmos DB API	Gremlin / Table API / Core (SQL)
Azure Cosmos DB partition key	first name / last name / package count / item id

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Hot Area:

Answer Area

Configuration Parameter	Value
Azure Cosmos DB API	Gremlin / Table API / Core (SQL)
Azure Cosmos DB partition key	first name / last name / package count / item id

Box 1: Core (SQL)
Core(SQL) API stores data in document format. It offers the best end-to-end experience as we have full control over the interface, service, and the SDK client libraries. SQL API supports analytics and offers performance isolation between operational and analytical workloads.

Box 2: item id -
item id is a unique identifier and is suitable for the partition key.
Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/choose-api
https://docs.microsoft.com/en-us/azure/cosmos-db/partitioning-overview

DRAG DROP -

You need to ensure that PolicyLib requirements are met.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Code segments

- Process
- Initialize
- telemetry.Sequence
- ITelemetryProcessor
- ITelemetryInitializer
- telemetry.Context
- EventGridController.EventId.Value
- ((EventTelemetry)telemetry).Properties["EventId"]

Answer Area

```
public class IncludeEventId : [code segment]
{
    public void [code segment] (ITelemetry telemetry)
    {

        [code segment].Properties["EventId"] =
            [code segment];
    }
}
```

DRAG DROP -

You need to ensure that PolicyLib requirements are met.

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

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Select and Place:

Code segments

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- telemetry.Sequence
- ITelemetryProcessor
- ITelemetryInitializer
- telemetry.Context
- EventGridController.EventId.Value
- ((EventTelemetry)telemetry).Properties["EventId"]

Answer Area

```
public class IncludeEventId : ITelemetryInitializer
{
    public void Initialize (ITelemetry telemetry)
    {
        telemetry.Context .Properties["EventId"] =
            ((EventTelemetry)telemetry).Properties["EventId"] ;
    }
}
```

Scenario: You have a shared library named PolicyLib that contains functionality common to all ASP.NET Core web services and applications. The PolicyLib library must:

- Exclude non-user actions from Application Insights telemetry.
- Provide methods that allow a web service to scale itself.
- Ensure that scaling actions do not disrupt application usage.

Box 1: ITelemetryInitializer -

Use telemetry initializers to define global properties that are sent with all telemetry; and to override selected behavior of the standard telemetry modules.

Box 2: Initialize -

Box 3: Telemetry.Context -

Box 4: ((EventTelemetry)telemetry).Properties["EventID"]

Reference:

https://docs.microsoft.com/en-us/azure/azure-monitor/app/api-filtering-sampling

You need to migrate on-premises shipping data to Azure.

What should you use?

Options:

A. Azure Migrate

B. Azure Cosmos DB Data Migration tool (dt.exe)

C. AzCopy

D. Azure Database Migration service

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C. AzCopy

D. Azure Database Migration service

Correct Answer: **D**

Migrate from on-premises or cloud implementations of MongoDB to Azure Cosmos DB with minimal downtime by using Azure Database Migration Service. Perform resilient migrations of MongoDB data at scale and with high reliability.
Scenario: Data migration from on-premises to Azure must minimize costs and downtime. The application uses MongoDB JSON document storage database for all container and transport information.
References:
https://azure.microsoft.com/en -us/updates/mongodb-to-azure-cosmos-db-online-and-offline-migrations-are-now-available/

You need to secure the Azure Functions to meet the security requirements.
Which two actions should you perform? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.
Options:

A. Store the RSA-HSM key in Azure Cosmos DB. Apery the built-in policies for customer-managed keys and allowed locations.
B. Create a free tier Azure App Configuration instance with a new Azure AD service principal.
C. Store the RSA-HSM key in Azure Key Vault with soft-delete and purge-protection features enabled.
D. Store the RSA-HSM key in Azure Blob storage with an Immutability policy applied to the container.
E. Create a standard tier Azure App Configuration instance with an assigned Azure AD managed identity.

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C. Store the RSA-HSM key in Azure Key Vault with soft-delete and purge-protection features enabled.
D. Store the RSA-HSM key in Azure Blob storage with an Immutability policy applied to the container.
E. Create a standard tier Azure App Configuration instance with an assigned Azure AD managed identity.

Correct Answers: **C, E**

Scenario: All Azure Functions must centralize management and distribution of configuration data for different environments and geographies, encrypted by using a company-provided RSA-HSM key.
Microsoft Azure Key Vault is a cloud-hosted management service that allows users to encrypt keys and small secrets by using keys that are protected by hardware security modules (HSMs).
You need to create a managed identity for your application.
Reference:, https://docs.microsoft.com/en-us/azure/app-service/app-service-key-vault-references

HOTSPOT -

You need to resolve the Shipping web site error.

How should you configure the Azure Table Storage service? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
<?xml version="1.0" encoding="utf-8"?>
<StorageServiceProperties>
      …
      <Cors>
      <CorsRule>
      <[AllowedHeaders / ExposedHeaders / AllowedMethods / AllowedOrigins]>[http://*.wideworldimporters.com / http://test.wideworldimporters.com / http://test-shippingapi.wideworldimporters.com / http://www.wideworldimporters.com]</[AllowedHeaders / ExposedHeaders / AllowedMethods / AllowedOrigins]>
      <AllowedMethods>[GET,PUT / GET / POST / GET,HEAD]</AllowedMethods>
      …
      </CorsRule>
    </Cors>
</StorageServiceProperties>
```

HOTSPOT -
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How should you configure the Azure Table Storage service? To answer, select the appropriate options in the answer area.
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Hot Area:

Answer Area

```
<?xml version="1.0" encoding="utf-8"?>
<StorageServiceProperties>
      …
      <Cors>
      <CorsRule>
      <[AllowedHeaders / ExposedHeaders / AllowedMethods / AllowedOrigins]>
            [http://*.wideworldimporters.com / http://test.wideworldimporters.com / http://test-shippingapi.wideworldimporters.com / http://www.wideworldimporters.com]
      </[AllowedHeaders / ExposedHeaders / AllowedMethods / AllowedOrigins]>
      <AllowedMethods> [GET,PUT / GET / POST / GET,HEAD] </AllowedMethods>
      …
      </CorsRule>
    </Cors>
</StorageServiceProperties>
```

Box 1: AllowedOrigins -
A CORS request will fail if Access-Control-Allow-Origin is missing.
Scenario:
The following error message displays while you are testing the website:
Box 2: http://test-shippingapi.wideworldimporters.com
Syntax: Access-Control-Allow-Origin: *
Access-Control-Allow-Origin: <origin>
Access-Control-Allow-Origin: null
<origin> Specifies an origin. Only a single origin can be specified.

Box 3: AllowedOrigins -

Box 4: POST -
The only allowed methods are GET, HEAD, and POST. In this case POST is used.
"<Corsrule>" "allowedmethods" Failed to load no "Access-control-Origin" header is present
References:
https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Access-Control-Allow-Origin

HOTSPOT -
You need to configure Azure CDN for the Shipping web site.
Which configuration options should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Option	Value
Tier	Standard / Premium
Profile	Akamai / Microsoft
Optimization	general web delivery / large file download / dynamic site acceleration / video-on-demand media streaming

HOTSPOT -
You need to configure Azure CDN for the Shipping web site.
Which configuration options should you use? To answer, select the appropriate options in the answer area.
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Hot Area:

Answer Area

Option	Value
Tier	Standard / Premium
Profile	Akamai / Microsoft
Optimization	general web delivery / large file download / dynamic site acceleration / video-on-demand media streaming

Scenario: Shipping website -
Use Azure Content Delivery Network (CDN) and ensure maximum performance for dynamic content while minimizing latency and costs.

Tier: Standard -

Profile: Akamai -
Optimization: Dynamic site acceleration
Dynamic site acceleration (DSA) is available for Azure CDN Standard from Akamai, Azure CDN Standard from Verizon, and Azure CDN Premium from Verizon profiles.
DSA includes various techniques that benefit the latency and performance of dynamic content. Techniques include route and network optimization, TCP optimization, and more.
You can use this optimization to accelerate a web app that includes numerous responses that aren't cacheable. Examples are search results, checkout transactions, or real-time data. You can continue to use core Azure CDN caching capabilities for static data.
Reference:
https://docs.microsoft.com/en-us/azure/cdn/cdn-optimization-overview

HOTSPOT -
You need to secure the Shipping Function app.
How should you configure the app? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Setting	Value
Authorization level	Function / Anonymous / Admin
User claims	JSON Web Token (JWT) / Shared Access Signature (SAS) token / API Key
Trigger type	blob / HTTP / queue / timer

HOTSPOT -
You need to secure the Shipping Function app.
How should you configure the app? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Setting	Value
Authorization level	Function / Anonymous / Admin
User claims	JSON Web Token (JWT) / Shared Access Signature (SAS) token / API Key
Trigger type	blob / HTTP / queue / timer

Scenario: Shipping Function app: Implement secure function endpoints by using app-level security and include Azure Active Directory (Azure AD).

Box 1: Function -
Box 2: JSON based Token (JWT)
Azure AD uses JSON based tokens (JWTs) that contain claims

Box 3: HTTP -
How a web app delegates sign-in to Azure AD and obtains a token
User authentication happens via the browser. The OpenID protocol uses standard HTTP protocol messages.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/develop/authentication-scenarios

You need to secure the Shipping Logic App.
What should you use?
Options:

A. Azure App Service Environment (ASE)
B. Azure AD B2B integration
C. Integration Service Environment (ISE)
D. VNet service endpoint

You need to secure the Shipping Logic App.
What should you use?
Options:

A. Azure App Service Environment (ASE)
B. Azure AD B2B integration
C. Integration Service Environment (ISE)
D. VNet service endpoint

Correct Answers: C

Scenario: The Shipping Logic App requires secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
You can access to Azure Virtual Network resources from Azure Logic Apps by using integration service environments (ISEs).
Sometimes, your logic apps and integration accounts need access to secured resources, such as virtual machines (VMs) and other systems or services, that are inside an Azure virtual network. To set up this access, you can create an integration service environment (ISE) where you can run your logic apps and create your integration accounts.
References:
https://docs.microsoft.com/en-us/azure/logic-apps/connect-virtual-network-v net-isolated-environment-overview

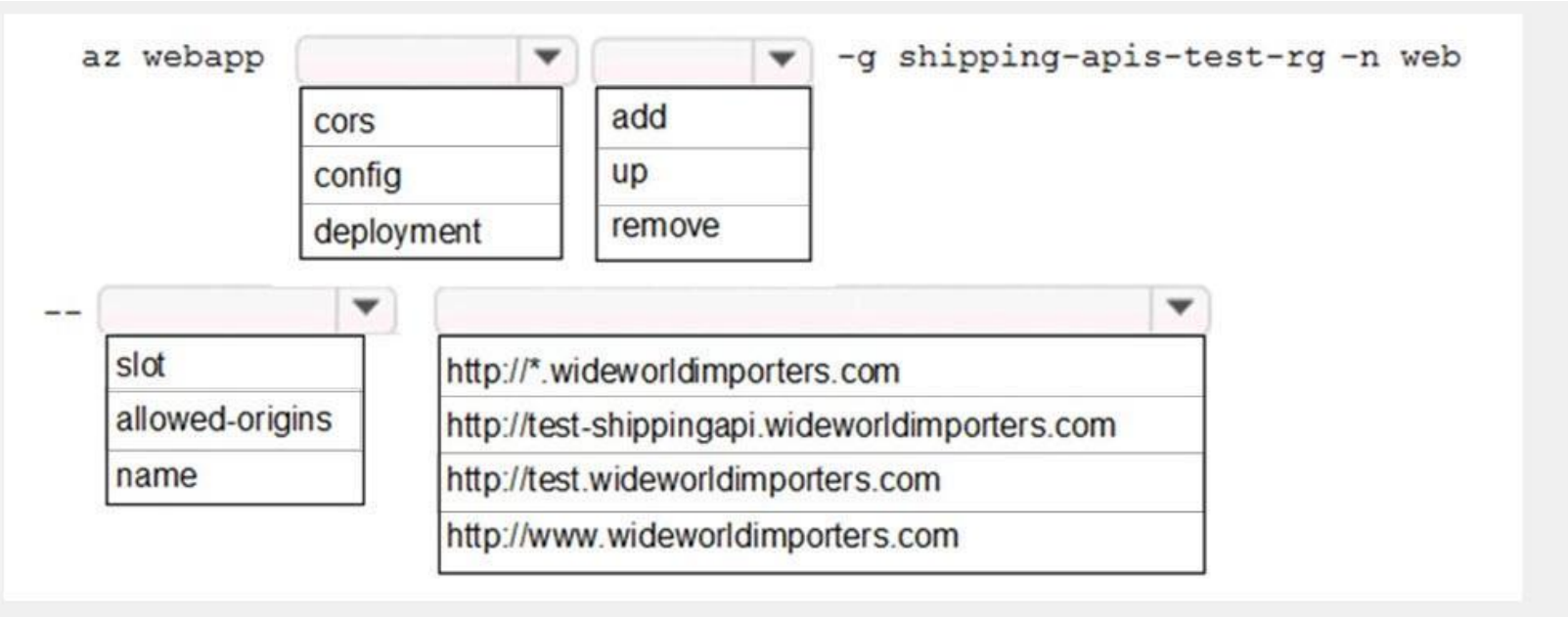
HOTSPOT

You need to update the APIs to resolve the testing error.

How should you complete the Azure CLI command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



HOTSPOT
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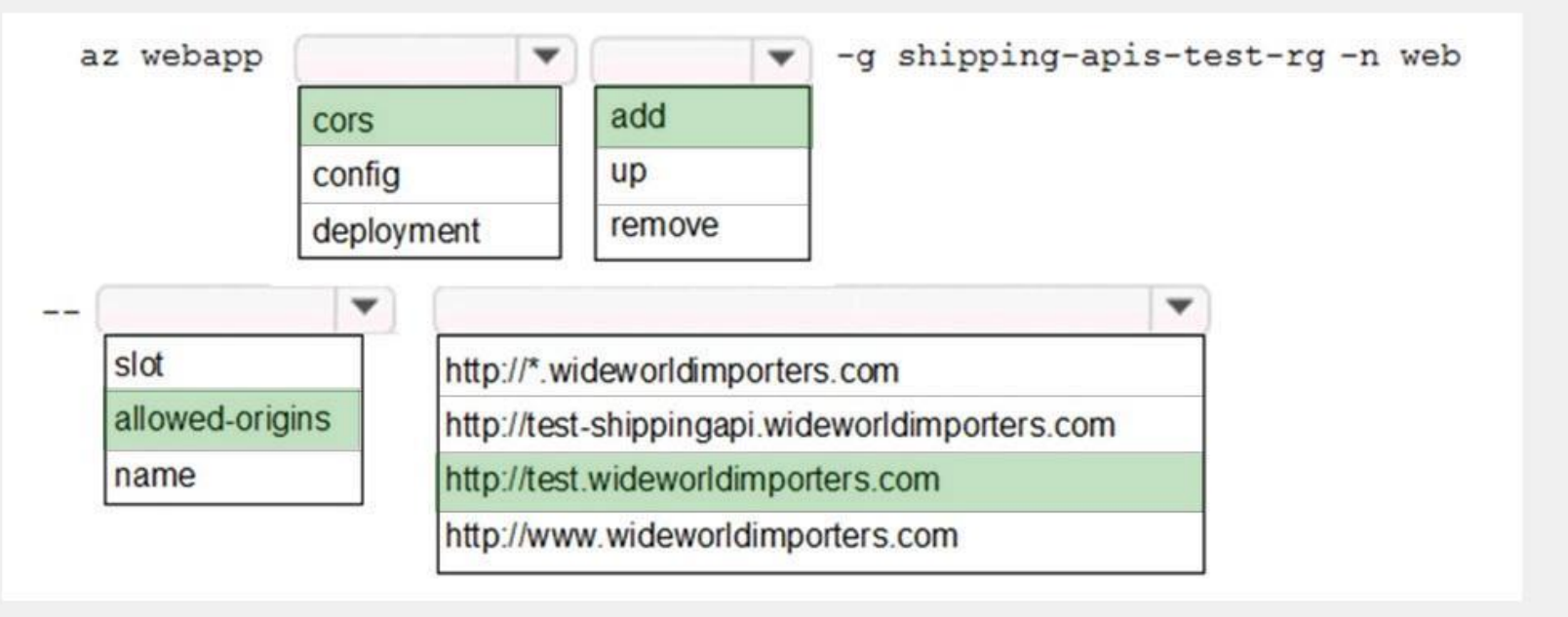
Hot Area:



Enable Cross-Origin Resource Sharing (CORS) on your Azure App Service Web App.
*Enter the full URL of the site you want to allow to access your WEB API or * to allow all domains.*
***Box 1**: cors **Box 2**: add **Box 3**: allowed-origins **Box 4**: http://testwideworldimporters.com/ References:*
http://donovanbrown.com/post/How-to-clear-No-Access-Control-Allow-Origin-header-error-with-Azure-App-Service
Implement Azure security 05

You develop Azure Web Apps for a commercial diving company. Regulations require that all divers fill out a health questionnaire every 15 days after each diving job starts.
You need to configure the Azure Web Apps so that the instance count scales up when divers are filling out the questionnaire and scales down after they are complete.
You need to configure autoscaling.
What are two possible autoscaling configurations to achieve this goal? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.
Options:
A. Predictive autoscaling
B. CPU usage-based autoscaling
C. Recurrence profile
D. Fixed date profile

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Options:
A. Predictive autoscaling
B. CPU usage-based autoscaling
C. Recurrence profile
D. Fixed date profile

Correct Answers: A, C

you need to reduce read latency for the retail store solution.
What are two possible ways to achieve the goal? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.
Options:

A. Create a new composite index for the store location data queries in Azure Cosmos DB. Modify the queries to support parameterized SQL and update the Azure function app to call the new Queries.
B. Configure Azure Cosmos DB consistency to strong consistency Increase the RUs for the container supporting store location data.
C. Provision an Azure Cosmos OB dedicated gateway, update blob storage to use the new dedicated gateway endpoint.
D. Configure Azure Cosmos DB consistency to session consistency. Cache session tokens in a new Azure Redis cache instance after every write. Update reads to use the session token stored in Azure Redis.
E. Provision an Azure Cosmos DB dedicated gateway Update the Azure Function app connection string to use the new dedicated gateway endpoint.

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What are two possible ways to achieve the goal? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.
Options:

A. Create a new composite index for the store location data queries in Azure Cosmos DB. Modify the queries to support parameterized SQL and update the Azure function app to call the new Queries.
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E. Provision an Azure Cosmos DB dedicated gateway Update the Azure Function app connection string to use the new dedicated gateway endpoint.

Correct Answers: A, C

DRAG DROP -

You need to add code at line EG15 in EventGridController.cs to ensure that the Log policy applies to all services.

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

NOTE: Each correct selection is worth one point.

Code segments

- topic
- status
- eventType
- Succeeded
- operationName
- resourceProvider

Answer Area

```
if {
  @event[ "data" ][ "   code segment   " ].ToString() == "   code segment   "
  &&
  @event[ "data" ][ "   code segment   " ].ToString() == "Microsoft.Web/sites/write"
)
```

DRAG DROP -
You need to add code at line EG15 in EventGridController.cs to ensure that the Log policy applies to all services.
How should you complete the code? To answer, drag the appropriate code segments to the correct locations. 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.
NOTE: Each correct selection is worth one point.

Code segments

- topic
- status
- eventType
- Succeeded
- operationName
- resourceProvider

Answer Area

```
if {
  @event[ "data" ][ " status " ].ToString() == " Succeeded "
  &&
  @event[ "data" ][ " operationName " ].ToString() == "Microsoft.Web/sites/write"
)
```

Scenario, Log policy: All Azure App Service Web Apps must write logs to Azure Blob storage.

Box 1: Status -

Box 2: Succeeded -

Box 3: operationName -
Microsoft.Web/sites/write is resource provider operation. It creates a new Web App or updates an existing one.
Reference:
https://docs.microsoft.com/en-us/azure/role-based-access-control/resource-provider-operations

You need to resolve a notification latency issue.
Which two actions should you perform? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.
Options:

A. Set Always On to **true**.
B. Ensure that the Azure Function is using an App Service plan.
C. Set Always On to **false**.
D. Ensure that the Azure Function is set to use a consumption plan.

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

A. Set Always On to **true**.
B. Ensure that the Azure Function is using an App Service plan.
C. Set Always On to **false**.
D. Ensure that the Azure Function is set to use a consumption plan.

Correct Answers: A, B

Azure Functions can run on either a Consumption Plan or a dedicated App Service Plan. If you run in a dedicated mode, you need to turn on the Always On setting for your Function App to run properly. The Function runtime will go idle after a few minutes of inactivity, so only HTTP triggers will actually "wake up" your functions. This is similar to how WebJobs must have Always On enabled.
Scenario: Notification latency: Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.
Anomaly detection service: You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure Machine Learning model. The model is deployed as a web service. If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.
Reference:, https://github.com/Azure/Azure-Functions/wiki/Enable-Always-On-when-running-on-dedicated-App-Service-Plan

HOTSPOT -

You need to implement the Log policy.

How should you complete the EnsureLogging method in EventGridController.cs? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var client = new WebSiteManagementClient(. . .);
var id = ParseResourceID(resource);
var appSettings = new StringDictionary(name: "properties",
  properties: new Dictionary<string, string> {
  {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS(" [ ] ")},
                                                                  logs
                                                                  logdrop
  {"DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", " [ ] "}
                                                                  15
                                                                  30
});
client.WebApps. [ ] (
                  UploadLoggingSettings
                  UpdateApplicationSetting
  id.resourceGroup,
  id.name, appSettings);
```

HOTSPOT -
You need to implement the Log policy.
How should you complete the EnsureLogging method in EventGridController.cs? To answer, select the appropriate options in the answer area.
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Hot Area:

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var appSettings = new StringDictionary(name: "properties",
  properties: new Dictionary<string, string> {
  {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS("  [ ]  "
                                                                  logs
                                                                  logdrop

  {"DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", "  [ ]  "}
                                              15
                                              30
});
client.WebApps.  [ ]  (
                 UploadLoggingSettings
                 UpdateApplicationSetting
  id.resourceGroup,
  id.name, appSettings);
```

Box 1: logdrop -
All log files should be saved to a container named logdrop.

Box 2: 15 -
Logs must remain in the container for 15 days.
Box 3: UpdateApplicationSettings
All Azure App Service Web Apps must write logs to Azure Blob storage.
Reference:
https://blog.hompus.nl/2017/05/29/adding-application-logging-blob-to-a-azure-web-app-service-using-powershell/

You need to insert code at line LE03 of LoginEvent.cs to ensure that all authentication events are processed correctly.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

```
public string [ ▾ ] { get; set; }
public string [ ▾ ] { get; set; }
public string [ ▾ ] { get; set; }
```

id
eventType
dataVersion
metadataVersion

You need to insert code at line LE03 of LoginEvent.cs to ensure that all authentication events are processed correctly.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

```
public string [id / eventType / dataVersion / metadataVersion] ( get; set; )
public string [id / eventType / dataVersion / metadataVersion] ( get; set; )
public string [id / eventType / dataVersion / metadataVersion] ( get; set; )
```

Box 1: id -
id is a unique identifier for the event.
Box 2: eventType -
eventType is one of the registered event types for this event source.
Box 3: dataVersion -
dataVersion is the schema version of the data object. The publisher defines the schema version.
Scenario: Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.
The following example shows the properties that are used by all event publishers:

```
[
{
"topic": string,
"subject": string,
"id": string,
"eventType": string,
"eventTime": string,
"data":{
object-unique-to-each-publisher
},
"dataVersion": string,
"metadataVersion": string
}
]
```

Reference:
https://docs.microsoft.com/en-us/azure/event-grid/event-schema

HOTSPOT -
You need to configure API Management for authentication.
Which policy values should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Setting	Value
Policy	Check HTTP header Restrict caller IPs Limit call rate by key Validate JWT
Policy section	Inbound Outbound

HOTSPOT -
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Which policy values should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Setting	Value
Policy	Check HTTP header Restrict caller IPs Limit call rate by key **Validate JWT**
Policy section	Inbound **Outbound**

Box 1: Validate JWT -
The validate-jwt policy enforces existence and validity of a JWT extracted from either a specified HTTP Header or a specified query parameter.
Scenario: User authentication (see step 5 below)
The following steps detail the user authentication process:
1. The user selects Sign in in the website.
2. The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.
3. The user signs in.
4. Azure AD redirects the user's session back to the web application. The URL includes an access token.
5. The web application calls an API and includes the access token in the authentication header. The application ID is sent as the audience ('aud') claim in the access token.
6. The back-end API validates the access token.
Incorrect Answers:
⇨ Limit call rate by key - Prevents API usage spikes by limiting call rate, on a per key basis.
⇨ Restrict caller IPs - Filters (allows/denies) calls from specific IP addresses and/or address ranges.
⇨ Check HTTP header - Enforces existence and/or value of a HTTP Header.

Box 2: Outbound -
Reference:
https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Notification Hub. Register all devices with the hub.

Does the solution meet the goal?

Options:

A.Yes

B.No

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

Solution: Provision an Azure Notification Hub. Register all devices with the hub.

Does the solution meet the goal?

Options:

A.Yes

B.No

Correct Answer: B

Instead use an Azure Service Bus, which is used order processing and financial transactions.
Reference:, https://docs.microsoft.com/en-us/azure/event-grid/compare-messaging-services

You need to ensure that the solution can meet the scaling requirements for Policy Service.
Which Azure Application Insights data model should you use?
Options:

A. an Application Insights dependency

B. an Application Insights event

C. an Application Insights trace

D. an Application Insights metric

You need to ensure that the solution can meet the scaling requirements for Policy Service.
Which Azure Application Insights data model should you use?
Options:

A. an Application Insights dependency

B. an Application Insights event

C. an Application Insights trace

D. an Application Insights metric

Correct Answer: D

Application Insights provides three additional data types for custom telemetry:
Trace - used either directly, or through an adapter to implement diagnostics logging using an instrumentation framework that is familiar to you, such as Log4Net or System.Diagnostics.
Event - typically used to capture user interaction with your service, to analyze usage patterns.
Metric - used to report periodic scalar measurements.
Scenario:
Policy service must use Application Insights to automatically scale with the number of policy actions that it is performing.
Reference: [Reference:, https://docs.microsoft.com/en-us/azure/azure-monitor/app/data-model

HOTSPOT -
You need to configure security and compliance for the corporate website files.
Which Azure Blob storage settings should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Action	Setting
Restrict file access	role-based access control (RBAC) managed identity shared access signature (SAS) token connection string
Enable file auditing	access tier change feed blob indexer storage account type

HOTSPOT -
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Which Azure Blob storage settings should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Action	Setting
Restrict file access	role-based access control (RBAC) / managed identity / shared access signature (SAS) token / connection string
Enable file auditing	access tier / change feed / blob indexer / storage account type

Box 1: role-based access control (RBAC)
Azure Storage supports authentication and authorization with Azure AD for the Blob and Queue services via Azure role-based access control (Azure RBAC).
Scenario: File access must restrict access by IP, protocol, and Azure AD rights.

Box 2: storage account type -
Scenario: The website uses files stored in Azure Storage
Auditing of the file updates and transfers must be enabled to comply with General Data Protection Regulation (GDPR).
Creating a diagnostic setting:
1. Sign in to the Azure portal.
2. Navigate to your storage account.
3. In the Monitoring section, click Diagnostic settings.
4. Choose file as the type of storage that you want to enable logs for.
5. Click Add diagnostic setting.

Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction https://docs.microsoft.com/en-us/azure/storage/files/storage-files-monitoring

HOTSPOT -
You need to retrieve all order line items from Order.json and sort the data alphabetically by the city.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
SELECT li.id AS lineitemid, li.price
FROM [ Orders o | Lineltems li ]
JOIN [ li | o ] IN [ o.line_items | li.line_items | o.address ]
ORDER BY [ o.address.city | li.address.city | o.city | li.city ] ASC
```

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NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
SELECT li.id AS lineitemid, li.price
FROM [ Orders o | Lineltems li ]
JOIN [ li | o ] IN [ o.line_items | li.line_items | o.address ]
ORDER BY [ o.address.city | li.address.city | o.city | li.city ] ASC
```

Box 1: orders o -
Scenario: Order data is stored as nonrelational JSON and must be queried using SQL.

Box 2:li -

Box 3: o.line_items -

Box 4: o.city -
The city field is in Order, not in the 2s.

You need to authenticate the user to the corporate website as indicated by the architectural diagram.
Which two values should you use? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.
Options:

A. ID token signature
B. ID token claims
C. HTTP response code
D. Azure AD endpoint URI
E. Azure AD tenant ID

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Options:

A. ID token signature
B. ID token claims
C. HTTP response code
D. Azure AD endpoint URI
E. Azure AD tenant ID

Correct Answers: **B, E**

Claims in access tokens
JWTs (JSON Web Tokens) are split into three pieces:
•Header - Provides information about how to validate the token including information about the type of token and how it was signed.
•Payload - Contains all of the important data about the user or app that is attempting to call your service.
•Signature - Is the raw material used to validate the token.
Your client can get an access token from either the v1.0 endpoint or the v2.0 endpoint using a variety of protocols.
Scenario: User authentication (see step 5 below)
The following steps detail the user authentication process:
•The user selects Sign in in the website.
•The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.
•The user signs in.
•Azure AD redirects the user's session back to the web application. The URL includes an access token.
•The web application calls an API and includes the access token in the authentication header. The application ID is sent as the audience ('aud') claim in the access token.
•The back-end API validates the access token.
Reference: [Reference:, https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies, ,]

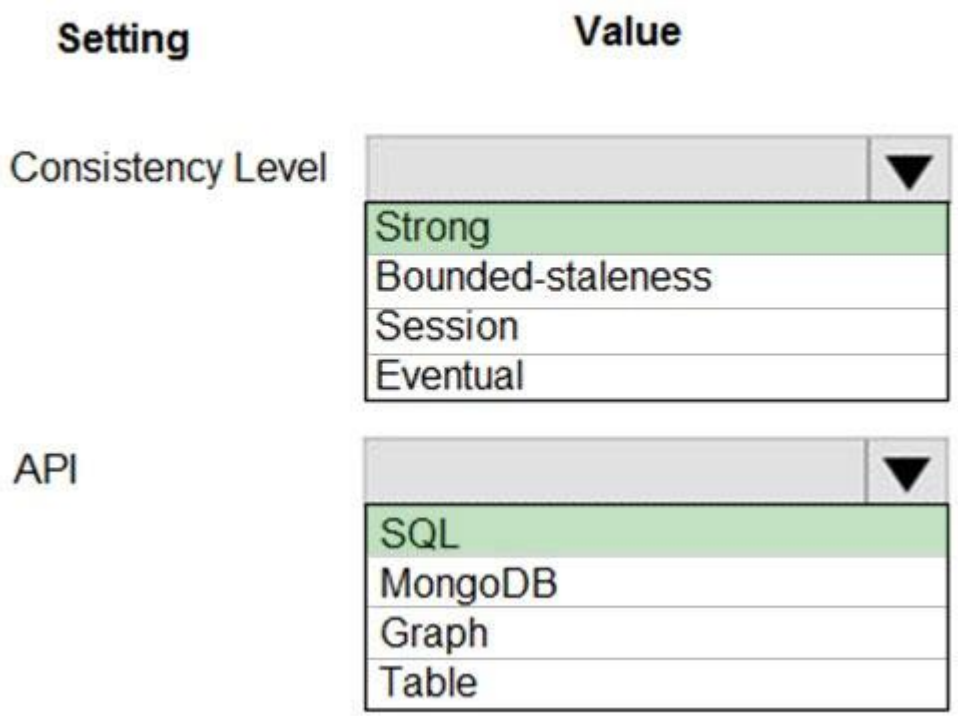
HOTSPOT -
You need to configure Azure Cosmos DB.
Which settings should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Setting	Value
Consistency Level	Strong Bounded-staleness Session Eventual
API	SQL MongoDB Graph Table

HOTSPOT -
You need to configure Azure Cosmos DB.
Which settings should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area



Box 1: Strong -
When the consistency level is set to strong, the staleness window is equivalent to zero, and the clients are guaranteed to read the latest committed value of the write operation.
Scenario: Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.
Note: You can choose from five well-defined models on the consistency spectrum. From strongest to weakest, the models are: Strong, Bounded staleness,
Session, Consistent prefix, Eventual

Box 2: SQL -
Scenario: You identify the following requirements for data management and manipulation:
Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).

DRAG DROP -

You need to implement telemetry for non-user actions.

How should you complete the Filter class? To answer, drag the appropriate code segments to the correct locations. 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Code segments

- /health
- /status
- RequestTelemetry
- PageViewTelemetry
- ITelementryProcessor
- ITelementryInitializer

Answer Area

```
public class Filter : [ code segment ]
{
   private readonly [ code segment ] _next;
   public (Filter [ code segment ] next)
   {
   _next = next;
   }
   public void Process(ITelemetry item)
   {
     var x = item as [ code segment ];
      if (x?.Url.AbsolutePath == " [ code segment ] " )
     {
       return;
     }
     _next.Process(item);
   }
}
```

DRAG DROP -
You need to implement telemetry for non-user actions.
How should you complete the Filter class? To answer, drag the appropriate code segments to the correct locations. 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.
NOTE: Each correct selection is worth one point.
Select and Place:

Code segments

- /health
- /status
- RequestTelemetry
- PageViewTelemetry
- ITelementryProcessor
- ITelementryInitializer

Answer Area

```
public class Filter : ITelementryProcessor
{
   private readonly ITelementryProcessor _next
   public (Filter ITelementryProcessor next)
   {
   _next = next;
   }
   public void Process(ITelemetry item)
   {
     var x = item as RequestTelemetry ;
      if (x?.Url.AbsolutePath == " /health
     {
       return;
     }
     _next.Process(item);
   }
}
```

Scenario: Exclude non-user actions from Application Insights telemetry.

Box 1: ITelemetryProcessor -
To create a filter, implement ITelemetryProcessor. This technique gives you more direct control over what is included or excluded from the telemetry stream.

Box 2: ITelemetryProcessor -

Box 3: ITelemetryProcessor -

Box 4: RequestTelemetry -

Box 5: /health -
To filter out an item, just terminate the chain.
Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/app/api-filtering-sampling

You need to ensure receipt processing occurs correctly.
What should you do?
Options:

A. Use blob properties to prevent concurrency problems

B. Use blob SnapshotTime to prevent concurrency problems

C. Use blob metadata to prevent concurrency problems

D. Use blob leases to prevent concurrency problems

You need to ensure receipt processing occurs correctly.
What should you do?
Options:

A. Use blob properties to prevent concurrency problems

B. Use blob SnapshotTime to prevent concurrency problems

C. Use blob metadata to prevent concurrency problems

D. Use blob leases to prevent concurrency problems

Correct Answer: D

You can create a snapshot of a blob. A snapshot is a read-only version of a blob that's taken at a point in time. Once a snapshot has been created, it can be read, copied, or deleted, but not modified. Snapshots provide a way to back up a blob as it appears at a moment in time.
Scenario: Processing is performed by an Azure Function that uses version 2 of the Azure Function runtime. Once processing is completed, results are stored in Azure Blob Storage and an Azure SQL database. Then, an email summary is sent to the user with a link to the processing report. The link to the report must remain valid if the email is forwarded to another user.
Reference:, https://docs.microsoft.com/en-us/rest/api/storageservices/creating-a-snapshot-of-a-blob

You need to access data from the user claim object in the e-commerce web app.

What should you do first?

Options:

A. Write custom code to make a Microsoft Graph API call from the e-commerce web app.

B. Assign the Contributor RBAC role to the e-commerce web app by using the Resource Manager create role assignment API.

C. Update the e-commerce web app to read the HTTP request header values.

D. Using the Azure CLI, enable Cross-origin resource sharing (CORS) from the e-commerce checkout API to the e-commerce web app.

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What should you do first?

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C. Update the e-commerce web app to read the HTTP request header values.

D. Using the Azure CLI, enable Cross-origin resource sharing (CORS) from the e-commerce checkout API to the e-commerce web app.

Correct Answer: C

Methods to Get User Identity and Claims in a .NET Azure Functions App include:
ClaimsPrincipal from the Request Context
The ClaimsPrincipal object is also available as part of the request context and can be extracted from the HttpRequest.HttpContext.
User Claims from the Request Headers.
App Service passes user claims to the app by using special request headers.
Reference: https://levelup.gitconnected.com/four-alternative-methods-to-get-user-identity-and-claims-in-a-net-azurefunctions-app-df98c40424bb

DRAG DROP -
You need to deploy a new version of the LabelMaker application to ACR.
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.
Select and Place:

Actions	Answer area
Log in to the registry and push image.	
Create an alias of the image with a new build number.	
Create an alias of the image with the fully qualified path to the registry.	
Download the image to your local computer.	
Build a new application image by using dockerfile.	

DRAG DROP -
You need to deploy a new version of the LabelMaker application to ACR.
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.
Select and Place:

Actions	Answer area
	Build a new application image by using dockerfile.
Create an alias of the image with a new build number.	Create an alias of the image with the fully qualified path to the registry.
	Log in to the registry and push image.
Download the image to your local computer.	

Step 1: Build a new application image by using dockerfile
Step 2: Create an alias if the image with the fully qualified path to the registry
Before you can push the image to a private registry, you've to ensure a proper image name. This can be achieved using the docker tag command. For demonstration purpose, we'll use Docker's hello world image, rename it and push it to ACR.
# pulls hello-world from the public docker hub
$ docker pull hello-world
# tag the image in order to be able to push it to a private registry
$ docker tag hello-word <REGISTRY_NAME>/hello-world
# push the image
$ docker push <REGISTRY_NAME>/hello-world
Step 3: Log in to the registry and push image
In order to push images to the newly created ACR instance, you need to login to ACR form the Docker CLI. Once logged in, you can push any existing docker image to your ACR instance.
Scenario:
Coho Winery plans to move the application to Azure and continue to support label creation.

LabelMaker app -
Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS).
You must use Azure Container Registry to publish images that support the AKS deployment.
Reference:
https://thorsten-hans.com/how-to-use-a-private-azure-container-registry-with-kubernetes-9b86e67b93b6 https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-quick-task

DRAG DROP -

You need to ensure disaster recovery requirements are met.

What code should you add at line PC16?

To answer, drag the appropriate code fragments to the correct locations. Each code fragment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

- true
- false
- SingleTransferContext
- DirectoryTransferContext
- ShouldTransferCallbackAsync
- ShouldOverwriteCallbackAsync

Answer Area

```
var copyOptions = new CopyOptions {};
var context= new [          ](source,destination)=>Task.FromResult
context.[          ](source, destination) => Task.FromResult(tru
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy:[  ]
 , context:context, options: copyOptions); copyOptions, context);
```

DRAG DROP -
You need to ensure disaster recovery requirements are met.
What code should you add at line PC16?
To answer, drag the appropriate code fragments to the correct locations. Each code fragment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.
Select and Place:

Values

- true
- false
- SingleTransferContext
- DirectoryTransferContext
- ShouldTransferCallbackAsync
- ShouldOverwriteCallbackAsync

Answer Area

```
var copyOptions = new CopyOptions {};
var context= new [DirectoryTransferContext] (source,destination)=>Task.FromResult
context.[ShouldTransferCallbackAsync] (source, destination) => Task.FromResult(tru
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy:[false]
 , context:context, options: copyOptions); copyOptions, context);
```

Scenario, Disaster recovery: Regional outage must not impact application availability. All DR operations must not be dependent on application running and must ensure that data in the DR region is up to date.

Box 1: DirectoryTransferContext -
We transfer all files in the directory.
Note: The TransferContext object comes in two forms: SingleTransferContext and DirectoryTransferContext. The former is for transferring a single file and the latter is for transferring a directory of files.
Box 2: ShouldTransferCallbackAsync
The DirectoryTransferContext.ShouldTransferCallbackAsync delegate callback is invoked to tell whether a transfer should be done.

Box 3: False -
If you want to use the retry policy in Copy, and want the copy can be resume if break in the middle, you can use SyncCopy (isServiceCopy = false).
Note that if you choose to use service side copy ('isServiceCopy' set to true), Azure (currently) doesn't provide SLA for that. Setting 'isServiceCopy' to false will download the source blob loca
References:
https://docs.microsoft.com/en-us/azure/storage/common/storage-use-data-movement-library https://docs.microsoft.com/en us/dotnet/api/microsoft.windowsazure.storage.datamovement.directorytransfercontext.shouldtransfercallbackasync?view=azure- dotnet

You need to resolve the capacity issue.
What should you do?
Options:

A. Convert the trigger on the Azure Function to an Azure Blob storage trigger
B. Ensure that the consumption plan is configured correctly to allow scaling
C. Move the Azure Function to a dedicated App Service Plan
D. Update the loop starting on line PC09 to process items in parallel

You need to resolve the capacity issue.
What should you do?

- A. Convert the trigger on the Azure Function to an Azure Blob storage trigger
- B. Ensure that the consumption plan is configured correctly to allow scaling
- C. Move the Azure Function to a dedicated App Service Plan
- D. Update the loop starting on line PC09 to process items in parallel

Correct Answer: *D*

If you want to read the files in parallel, you cannot use forEach. Each of the async callback function calls does return a promise. You can await the array of promises that you'll get with Promise.all.
Scenario: Capacity issue: During busy periods, employees report long delays between the time they upload the receipt and when it appears in the web application.

```
PC08    var container = await GetCloudBlobContainer();
PC09    foreach (var fileItem in await ListFiles())
PC10    {
PC11      var file = new CloudFile(fileItem.StorageUri.PrimaryUri);
PC12      var ms = new MemoryStream();
PC13      await file.DownloadToStreamAsync(ms);
PC14      var blob = container.GetBlockBlobReference(fileItem.Uri.ToString());
PC15      await blob.UploadFromStreamAsync(ms);
PC16
PC17    }
```

Reference:
https://stackoverflow.com/questions/37576685/using-async-await-with-a-foreach-loop

DRAG DROP -

You need to add code at line PC32 in Processing.cs to implement the GetCredentials method in the Processing class.

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

NOTE: Each correct selection is worth one point.

Select and Place:

DRAG DROP -
You need to add code at line PC32 in Processing.cs to implement the GetCredentials method in the Processing class.
How should you complete the code? To answer, drag the appropriate code segments to the correct locations. 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.
NOTE: Each correct selection is worth one point.
Select and Place:

Box 1: AzureServiceTokenProvider()
Box 2: tp.GetAccessTokenAsync("..")
Acquiring an access token is then quite easy. Example code:
private async Task<string> GetAccessTokenAsync()
{
var tokenProvider = new AzureServiceTokenProvider();
return await tokenProvider.GetAccessTokenAsync("https://storage.azure.com/");
}
Reference:
https://joonasw.net/view/azure-ad-authentication-with-azure-storage-and-managed-service-identity

You need to ensure the security policies are met.
What code do you add at line CS07 of ConfigureSSE.ps1?

- A. "€ąPermissionsToKeys create, encrypt, decrypt
- B. "€ąPermissionsToCertificates create, encrypt, decrypt
- C. "€ąPermissionsToCertificates wrapkey, unwrapkey, get
- D. "€ąPermissionsToKeys wrapkey, unwrapkey, get

You need to ensure the security policies are met.
What code do you add at line CS07 of ConfigureSSE.ps1?

•A. "€ƛPermissionsToKeys create, encrypt, decrypt
•B. "€ƛPermissionsToCertificates create, encrypt, decrypt
•C. "€ƛPermissionsToCertificates wrapkey, unwrapkey, get
•D. "€ƛPermissionsToKeys wrapkey, unwrapkey, get

Correct Answer: *B*

Scenario: All certificates and secrets used to secure data must be stored in Azure Key Vault.
You must adhere to the principle of least privilege and provide privileges which are essential to perform the intended function.
The Set-AzureRmKeyValutAccessPolicy parameter -PermissionsToKeys specifies an array of key operation permissions to grant to a user or service principal.
The acceptable values for this parameter: decrypt, encrypt, unwrapKey, wrapKey, verify, sign, get, list, update, create, import, delete, backup, restore, recover, purge
Incorrect Answers:
A, C: The Set-AzureRmKeyValutAccessPolicy parameter -PermissionsToCertificates specifies an array of certificate permissions to grant to a user or service principal. The acceptable values for this parameter: get, list, delete, create, import, update, managecontacts, getissuers, listissuers, setissuers, deleteissuers, manageissuers, recover, purge, backup, restore
Reference:
https://docs.microsoft.com/en-us/powershell/module/azurerm.keyvault/set-azurermkeyvaultaccesspolicy

HOTSPOT -
You need to add code at line PC26 of Processing.cs to ensure that security policies are met.
How should you complete the code that you will add at line PC26? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("...", "...");
```

var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);

var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy {Enabled = key.Kid != null};

cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy:x));

HOTSPOT -

You need to add code at line PC26 of Processing.cs to ensure that security policies are met.

How should you complete the code that you will add at line PC26? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("...", "...");
```

```
var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);
```

```
var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy {Enabled = key.Kid != null};
```

```
cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy:x));
```

Box 1: var key = await Resolver.ResolveKeyAsyn(keyBundle,KeyIdentifier.CancellationToken.None);

Box 2: var x = new BlobEncryptionPolicy(key,resolver);

Example:

// We begin with cloudKey1, and a resolver capable of resolving and caching Key Vault secrets.

BlobEncryptionPolicy encryptionPolicy = new BlobEncryptionPolicy(cloudKey1, cachingResolver);

client.DefaultRequestOptions.EncryptionPolicy = encryptionPolicy;

Box 3: cloudblobClient. DefaultRequestOptions.EncryptionPolicy = x;

Reference:

https://github.com/Azure/azure-storage-net/blob/master/Samples/GettingStarted/EncryptionSamples/KeyRotation/Program.cs

You need to resolve the log capacity issue.
What should you do?

- A. Create an Application Insights Telemetry Filter
- B. Change the minimum log level in the host.json file for the function
- C. Implement Application Insights Sampling
- D. Set a LogCategoryFilter during startup

You need to resolve the log capacity issue.
What should you do?

- A. Create an Application Insights Telemetry Filter
- B. Change the minimum log level in the host.json file for the function
- C. Implement Application Insights Sampling
- D. Set a LogCategoryFilter during startup

Correct Answer: *C*

Scenario, the log capacity issue: Developers report that the number of log message in the trace output for the processor is too high, resulting in lost log messages.
Sampling is a feature in Azure Application Insights. It is the recommended way to reduce telemetry traffic and storage, while preserving a statistically correct analysis of application data. The filter selects items that are related, so that you can navigate between items when you are doing diagnostic investigations. When metric counts are presented to you in the portal, they are renormalized to take account of the sampling, to minimize any effect on the statistics.
Sampling reduces traffic and data costs, and helps you avoid throttling.
Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/app/sampling

HOTSPOT -
You need to ensure that validation testing is triggered per the requirements.
How should you complete the code segment? To answer, select the appropriate values in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
var event = getEvent();
if (event.eventType === '[ImagePushed / RepositoryItem / ImageDeployed / RepositoryUpdated]'
 && event.data.target.[aci / image / service / repository] === 'contentanalysisservice'
 && event.[topic / service / repository / imageCollection].contains('contosoimages'))
{
  startValidationTesting();
}
```

HOTSPOT -
You need to ensure that validation testing is triggered per the requirements.
How should you complete the code segment? To answer, select the appropriate values in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
var event = getEvent();
if (event.eventType === '[ImagePushed / RepositoryItem / ImageDeployed / RepositoryUpdated]'
&& event.data.target.[aci / image / service / repository] === 'contentanalysisservice'
&& event.[topic / service / repository / imageCollection].contains('contosoimages'))
{
  startValidationTesting();
}
```

Box 1: RepositoryUpdated -
When a new version of the ContentAnalysisService is available the previous seven days of content must be processed with the new version to verify that the new version does not significantly deviate from the old version.

Box 2: service -

Box 3: imageCollection -
Reference:
https://docs.microsoft.com/en-us/azure/devops/notifications/oob-supported-event-types

You need to monitor ContentUploadService according to the requirements.
Which command should you use?

- A. az monitor metrics alert create "€ an alert "€ ag - - ¦€ scopes - - ¦€ condition "avg Percentage CPU > 8"
- B. az monitor metrics alert create "€ an alert "€ ag - - ¦€ scopes - - ¦€ condition "avg Percentage CPU > 800"
- C. az monitor metrics alert create "€ an alert "€ ag - - ¦€ scopes - - ¦€ condition "CPU Usage > 800"
- D. az monitor metrics alert create "€ an alert "€ ag - - ¦€ scopes - - ¦€ condition "CPU Usage > 8"

You need to monitor ContentUploadService according to the requirements.
Which command should you use?

- A. az monitor metrics alert create "€ an alert "€ ag - - ¦€ ascopes - - ¦€ acondition "avg Percentage CPU > 8"
- B. az monitor metrics alert create "€ an alert "€ ag - - ¦€ ascopes - - ¦€ acondition "avg Percentage CPU > 800"
- C. az monitor metrics alert create "€ an alert "€ ag - - ¦€ ascopes - - ¦€ acondition "CPU Usage > 800"
- D. az monitor metrics alert create "€ an alert "€ ag - - ¦€ ascopes - - ¦€ acondition "CPU Usage > 8"

Correct Answer: *C*

Scenario: An alert must be raised if the ContentUploadService uses more than 80 percent of available CPU cores.
Reference:
https://docs.microsoft.com/sv-se/cli/azure/monitor/metrics/alert

DRAG DROP -

You need to add markup at line AM04 to implement the ContentReview role.

How should you complete the markup? To answer, drag the appropriate json segments to the correct locations. Each json 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Json segments

- User
- value
- role
- Application
- allowedMemberTypes
- allowedAccountTypes

Answer Area

```
"appRoles": [
{
      "  [          ]  ": [
      "  [          ]  "
      ],
      "displayName": "ContentReviewer",
      "id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",
      "isEnabled" : true,
      "  [          ]  "     :"ContentReviewer"
}
],
```

DRAG DROP -

You need to add markup at line AM04 to implement the ContentReview role.

How should you complete the markup? To answer, drag the appropriate json segments to the correct locations. Each json segment may be used once, more than once, or not at all. You may ne
content.

NOTE: Each correct selection is worth one point.

Select and Place:

Json segments

- User
- value
- role
- Application
- allowedMemberTypes
- allowedAccountTypes

Answer Area

```
"appRoles": [
{
    " allowedMemberTypes ": [
    " User "
    ],
    "displayName": "ContentReviewer",
    "id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",
    "isEnabled" : true,
    " value "    :"ContentReviewer"
  }
],
```

Box 1: allowedMemberTypes -
allowedMemberTypes specifies whether this app role definition can be assigned to users and groups by setting to "User", or to other applications (that are accessing this application in daemon service scenarios) by setting to "Application", or to both.
Note: The following example shows the appRoles that you can assign to users.

```
"appId": "8763f1c4-f988-489c-a51e-158e9ef97d6a",
"appRoles": [
{
"allowedMemberTypes": [
"User"
],
"displayName": "Writer",
"id": "d1c2ade8-98f8-45fd-aa4a-6d06b947c66f",
"isEnabled": true,
"description": "Writers Have the ability to create tasks.",
"value": "Writer"
}
],
"availableToOtherTenants": false,
```

Box 2: User -
Scenario: In order to review content a user must be part of a ContentReviewer role.

Box 3: value -
value specifies the value which will be included in the roles claim in authentication and access tokens.
Reference:
https://docs.microsoft.com/en-us/graph/api/resources/approle

You need to configure the ContentUploadService deployment.
Which two actions should you perform? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. Add the following markup to line CS23: type: Private
- B. Add the following markup to line CS24: osType: Windows
- C. Add the following markup to line CS24: osType: Linux
- D. Add the following markup to line CS23: type: Public

You need to configure the ContentUploadService deployment.
Which two actions should you perform? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. Add the following markup to line CS23: type: Private
- B. Add the following markup to line CS24: osType: Windows
- C. Add the following markup to line CS24: osType: Linux
- D. Add the following markup to line CS23: type: Public

Corrected Answer: *A*

Scenario: All Internal services must only be accessible from Internal Virtual Networks (VNets)
There are three Network Location types "€aPrivate, Public and Domain
Reference:
https://devblogs.microsoft.com/powershell/setting-network-location-to-private/

HOTSPOT -
You need to implement the retail store location Azure Function.
How should you configure the solution? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Configuration	Value
Binding	Blob storage Azure Cosmos DB Event Grid HTTP
Binding Direction	Input Output
Trigger	Blob storage Azure Cosmos DB Event Grid HTTP

HOTSPOT -
You need to implement the retail store location Azure Function.
How should you configure the solution? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Configuration	Value
Binding	Blob storage / Azure Cosmos DB / Event Grid / **HTTP**
Binding Direction	**Input** / Output
Trigger	**Blob storage** / Azure Cosmos DB / Event Grid / HTTP

Scenario: Retail store locations: Azure Functions must process data immediately when data is uploaded to Blob storage.

Box 1: HTTP -
Binding configuration example: https://<storage_account_name>.blob.core.windows.net

Box 2: Input -
Read blob storage data in a function: Input binding

Box 3: Blob storage -
The Blob storage trigger starts a function when a new or updated blob is detected.
Azure Functions integrates with Azure Storage via triggers and bindings. Integrating with Blob storage allows you to build functions that react to changes in blob data as well as read and write values.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-trigger

You need to investigate the http server log output to resolve the issue with the ContentUploadService.
Which command should you use first?

- A. az webapp log
- B. az ams live-output
- C. az monitor activity-log
- D. az container attach

You need to investigate the http server log output to resolve the issue with the ContentUploadService.
Which command should you use first?

- A. az webapp log
- B. az ams live-output
- C. az monitor activity-log
- D. az container attach

Correct Answer: *D*

Scenario: Users of the ContentUploadService report that they occasionally see HTTP 502 responses on specific pages.
"502 bad gateway" and "503 service unavailable" are common errors in your app hosted in Azure App Service.
Microsoft Azure publicizes each time there is a service interruption or performance degradation.
The az monitor activity-log command manages activity logs.
Note: Troubleshooting can be divided into three distinct tasks, in sequential order:
1. Observe and monitor application behavior
2. Collect data
3. Mitigate the issue
Reference:
https://docs.microsoft.com/en-us/cli/azure/monitor/activity-log

HOTSPOT -
You need to implement the bindings for the CheckUserContent function.
How should you complete the code segment? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
public static class CheckUserContent
{
   [FunctionName("CheckUserContent")]
   public static void Run(
      [ ▼ ]  string content,
      [ ▼ ]  Stream output)
   {
      ...
   }
}
```

- [QueueTrigger("userContent")]
- [BlobTrigger("userContent/{name}")]
- [CosmosDBTrigger("content", "userContent")]
- [Table("content", "userContent", "{name}")]

- [Queue("userContent")]
- [CosmosDB("content", "userContent")]
- [Table("content", "userContent", "{name}")]
- [Blob("userContent/{name}", FileAccess.Write)]

HOTSPOT -
You need to implement the bindings for the CheckUserContent function.
How should you complete the code segment? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

```
public static class CheckUserContent
{
    [FunctionName("CheckUserContent")]
    public static void Run(
        [QueueTrigger("userContent")] / [BlobTrigger("userContent/{name}")] / [CosmosDBTrigger("content", "userContent")] / [Table("content", "userContent", "{name}")]
        string content,
        [Queue("userContent")] / [CosmosDB("content", "userContent")] / [Table("content", "userContent", "{name}")] / [Blob("userContent/{name}", FileAccess.Write)]
        Stream output)
    {
        ...
    }
}
```

Scenario: You must create an Azure Function named CheckUserContent to perform the content checks.
The company's data science group built ContentAnalysisService which accepts user generated content as a string and returns a probable value for inappropriate content. Any values over a specific threshold must be reviewed by an employee of Contoso, Ltd.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-output

DRAG DROP -

You need to add YAML markup at line CS17 to ensure that the ContentUploadService can access Azure Storage access keys.

How should you complete the YAML markup? To answer, drag the appropriate YAML segments to the correct locations. Each YAML 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.

NOTE: Each correct selection is worth one point.

Select and Place:

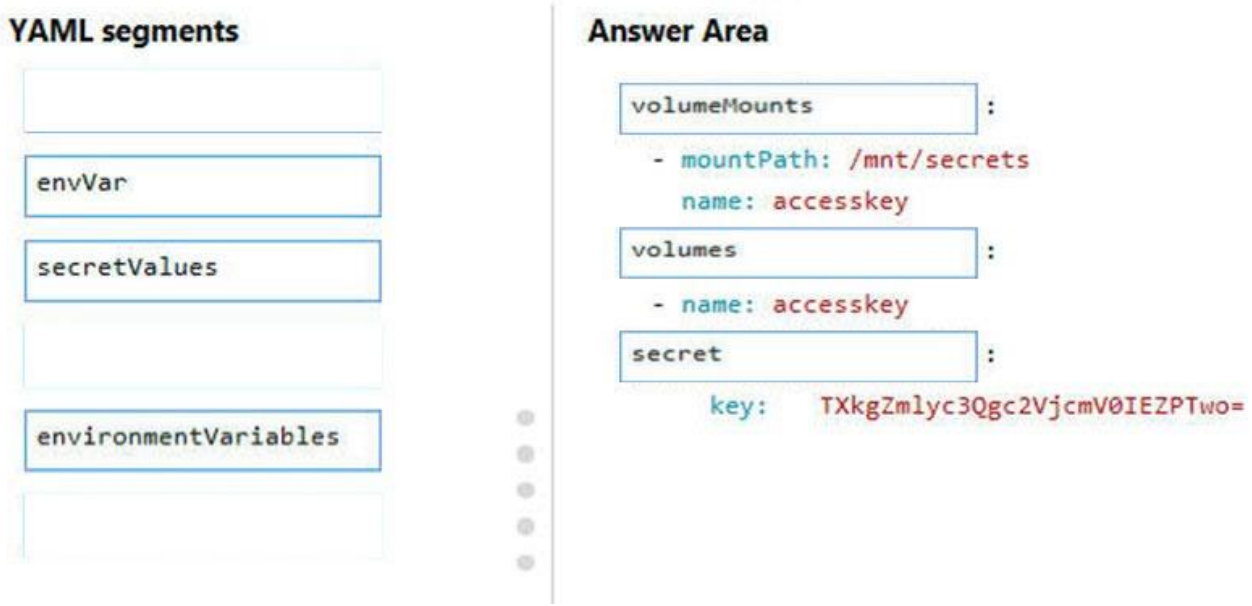
YAML segments

- secret
- envVar
- secretValues
- volumes
- volumeMounts
- environmentVariables

Answer Area

```
YAML segment :
  - mountPath: /mnt/secrets
    name: accesskey
YAML segment :
  - name: accesskey
YAML segment :
    key:    TXkgZmlyc3Qgc2VjcmV0IEZPTwo=
```

DRAG DROP -
You need to add YAML markup at line CS17 to ensure that the ContentUploadService can access Azure Storage access keys.
How should you complete the YAML markup? To answer, drag the appropriate YAML segments to the correct locations. Each YAML 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.
NOTE: Each correct selection is worth one point.
Select and Place:



Box 1: volumeMounts -
Example:
volumeMounts:
- mountPath: /mnt/secrets
name: secretvolume1
volumes:
- name: secretvolume1
secret:
mysecret1: TXkgZmlyc3Qgc2VjcmV0IEZPTwo=

Box 2: volumes -

Box 3: secret -

Reference:
https://docs.microsoft.com/en-us/azure/container-instances/container-instances-volume-secret

Thank you...

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