

AZ-204^{Q&As}

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QUESTION 1

You are creating an app that will use CosmosDB for data storage. The app will process batches of relational data.

You need to select an API for the app.

Which API should you use?

- A. MongoDB API
- B. Table API
- C. SQL API
- D. Cassandra API

Correct Answer: C

For relational data you will need the SQL API Incorrect Answer:

A: The MongoDB API is not used for relational data.

B: The Table API only supports data in the key/value format

D: The Cassandra API only supports OLTP (Online Transactional Processing) and not batch processing.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/choose-api>

QUESTION 2

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	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><ul style="list-style-type: none">FunctionAnonymousAdmin</div></div>
User claims	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><ul style="list-style-type: none">JSON Web Token (JWT)Shared Access Signature (SAS) tokenAPI Key</div></div>
Trigger type	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><ul style="list-style-type: none">blobHTTPqueuetimer</div></div>

Correct Answer:

Answer Area

Setting	Value
Authorization level	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;">▼</div><div style="padding: 2px;"><p>Function</p><p>Anonymous</p><p>Admin</p></div></div>
User claims	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;">▼</div><div style="padding: 2px;"><p>JSON Web Token (JWT)</p><p>Shared Access Signature (SAS) token</p><p>API Key</p></div></div>
Trigger type	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;">▼</div><div style="padding: 2px;"><p>blob</p><p>HTTP</p><p>queue</p><p>timer</p></div></div>

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>

QUESTION 3

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.

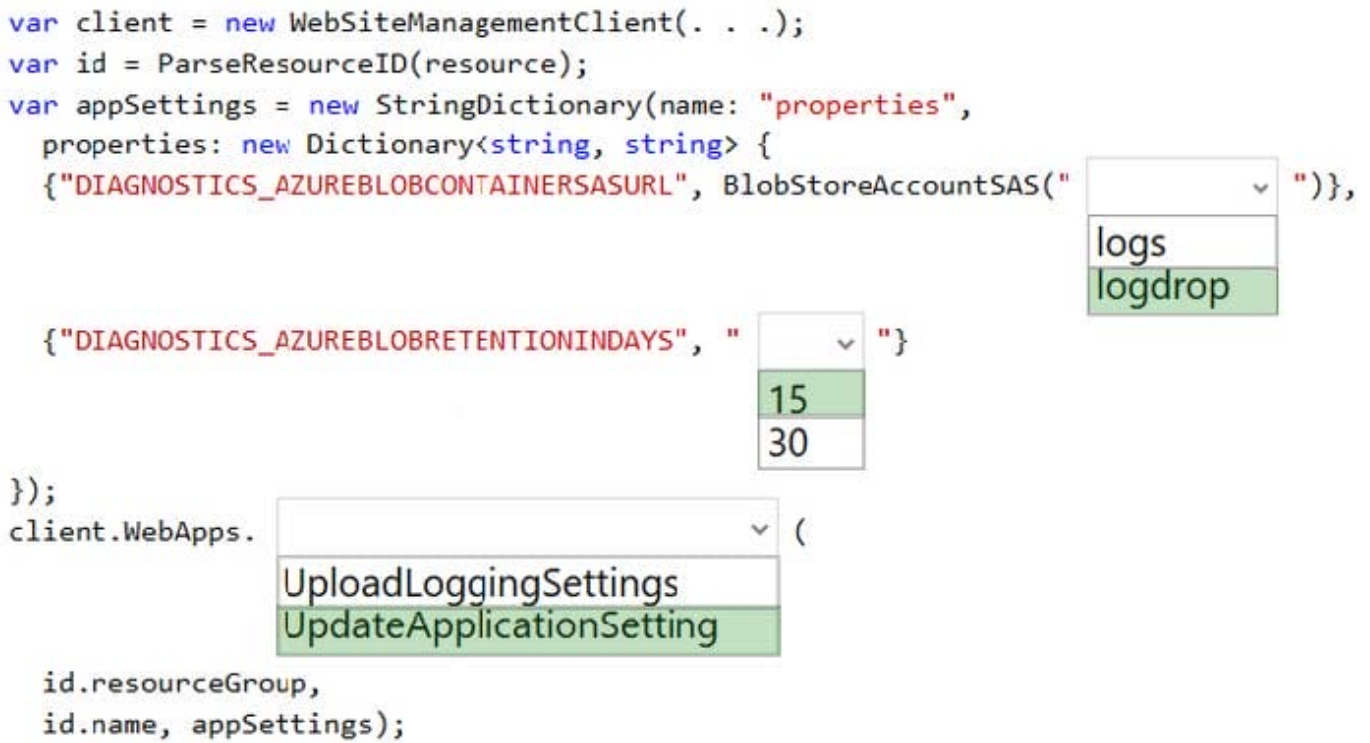
NOTE: Each correct selection is worth one point.

Hot Area:

```
var client = new WebsiteManagementClient(. . .);
var id = ParseResourceID(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
    {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS("
    { "DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", "
    });
client.WebApps.
    id.resourceGroup,
    id.name, appSettings);
```

Correct Answer:

```
var client = new WebSiteManagementClient(. . .);
var id = ParseResourceID(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
        {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS("
            {
                {"DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", "
            }
        )}),
    });
client.WebApps.
    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/>

QUESTION 4

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

- 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:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/data-model>

QUESTION 5

DRAG DROP

You are developing an Azure solution to collect inventory data from thousands of stores located around the world. Each store location will send the inventory data hourly to an Azure Blob storage account for processing.

The solution must meet the following requirements:

1.

Begin processing when data is saved to Azure Blob storage.

2.

Filter data based on store location information.

3.

Trigger an Azure Logic App to process the data for output to Azure Cosmos DB.

4.

Enable high availability and geographic distribution.

5.

Allow 24-hours for retries.

6.

Implement an exponential back off data processing.

You need to configure the solution.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Technologies

- Azure Event Hub
- Azure Event Grid
- Azure Service Bus
- Azure Blob Storage
- Azure App Service
- Azure Logic App

Answer Area

Object	Technology
Event Source	Technology
Event Receiver	Technology
Event Handler	Technology

Correct Answer:

Technologies

- Azure Event Hub
-
-
- Azure Blob Storage
- Azure App Service

Answer Area

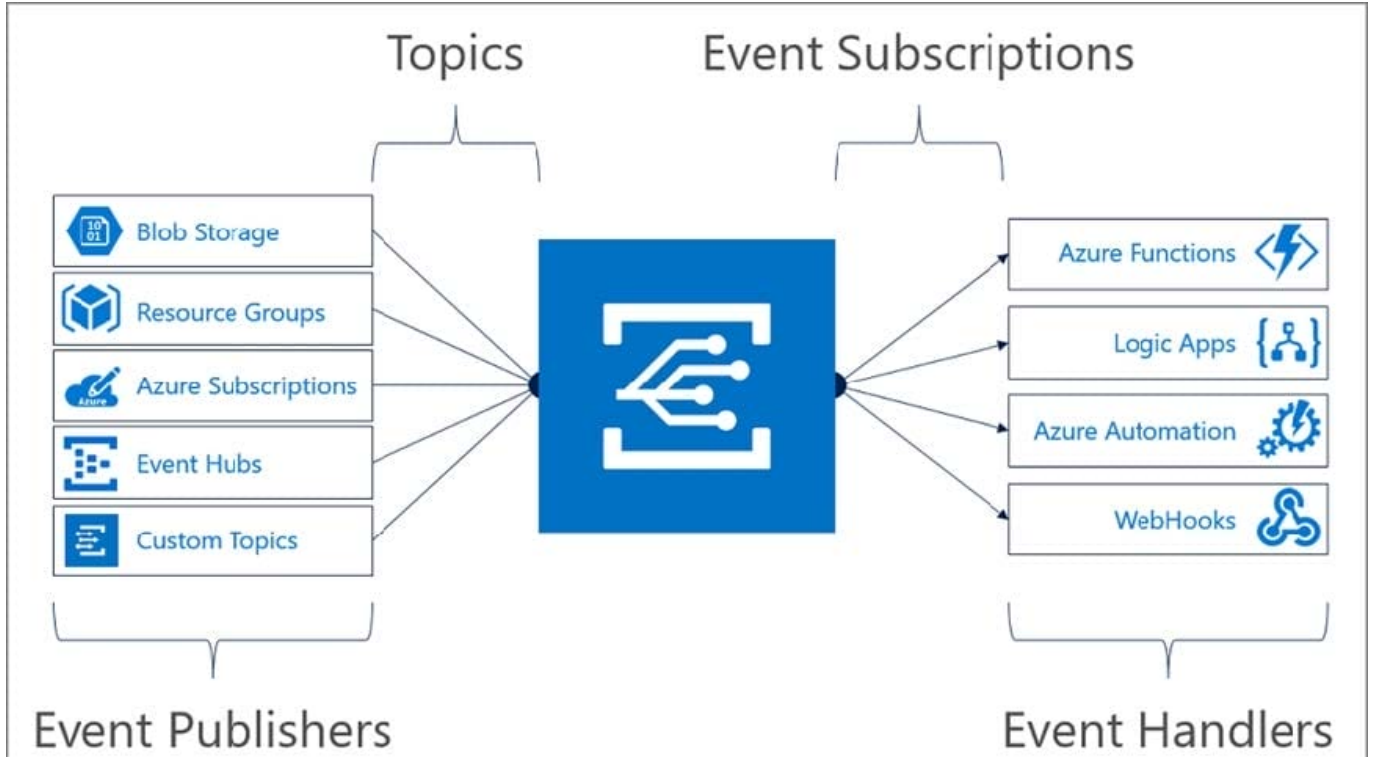
Object	Technology
Event Source	Azure Event Grid
Event Receiver	Azure Logic App
Event Handler	Azure Service Bus

Box 1: Azure Event Grid

Blob storage events are pushed using Azure Event Grid to subscribers such as Azure Functions, Azure Logic Apps, or even to your own http listener. Event Grid provides reliable event delivery to your applications through rich retry policies and dead-lettering.

Box 2: Azure Logic App

Event Grid uses event subscriptions to route event messages to subscribers. This image illustrates the relationship between event publishers, event subscriptions, and event handlers.



Box 3: Azure Service Bus

The Event Grid service doesn't store events. Instead, events are stored in the Event Handlers, including ServiceBus, EventHubs, Storage Queue, WebHook endpoint, or many other supported Azure Services.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-event-overview>

<https://docs.microsoft.com/en-us/java/api/overview/azure/messaging-eventgrid-readme>

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