MB-820^{Q&As}

Microsoft Dynamics 365 Business Central Developer

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QUESTION 1

You need to determine if you have unwanted incoming web service calls in your tenant during the last seven days.

Which two KQL queries should you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category !in (\\'ODataV4\\', \\'ODataV3\\', \\'Api\\')

B. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category == \\'SOAP\\'

C. traces | where timestamp > ago(7d) | where customDimensions == \\'RT0008\\' | where customDimensions.category == \\'SOAP\\'

D. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category != \\'ODataV4\\'

E. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category !in (\\'ODataV4\\', \\'Api\\')

Correct Answer: BC

Analyzing Incoming Web Services Request Telemetry

Web services telemetry gathers data about SOAP, OData, and REST API requests to the service. It provides information like the request\\'s endpoint, time to complete, HTTP status codes, and more.

What type of web services are called (REST API, OData, or SOAP)?

The custom dimension category hold information about the type of endpoint (REST API, OData, or SOAP) being called.

This KQL code illustrates how you can find which endpoints are being called and which types of endpoints are being used. Such information might be useful, should you want to modernize your use of web services to use REST APIs, which is

recommended over using SOAP web services or OData web services based on pages.

// Incoming Web Service Requests - endpoint information

traces

| where timestamp > ago(1d) // change as needed

| where customDimensions has "RT0008"

| where customDimensions.eventId == "RT0008"

| project timestamp

// endpoint information

, category = customDimensions.category // API, ODataV3, ODataV4, or SOAP

, endpoint = customDimensions.endpoint // URI

Scenario:

Contoso, Ltd. interacts with external services provided by customers and partners. Different applications interact with SOAP and OData endpoints exposed from Business Central.

SOAP

Contoso, Ltd. plans to dismiss using the SOAP protocol for integrations.

Contoso, Ltd. must be able to detect if external applications are using its Business Central SOAP endpoints.

Reference:

https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/administration/telemetry-webservices-trace

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QUESTION 2

HOTSPOT

You create an \\'AddItemsToJson" procedure and publish it.

```
01    procedure AddItemsToJson() RequestText: Text
02    var
03        Item: Record Item;
04        ItemObject: JsonObject;
05        ItemsArray: JsonArray;
06    begin
07        Clear(ItemsArray);
08        Clear(ItemObject);
09        If Item.FindSet() then begin
10            repeat
11                ItemObject.Add('No', Item."No.");
12                ItemObject.Add('Description', Item.Description);
13                ItemsArray.Add(ItemObject);
14            until Item.Next() = 0;
15            ItemsArray.WriteTo(RequestText);
16        end;
17    end;
```

The procedure fails to run.

You need to fix the errors in the code.

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

Hot Area:

JSON file processing

Statement	Yes	No
In line 13, replace the Add method with Insert.	○	○
In line 15, replace the WriteTo method with ReadFrom.	○	○
Change the ItemObject variable type from JsonObject to JsonToken.	○	○
Move line 08 in the beginning of REPEAT..UNTIL.	○	○

Correct Answer:

JSON file processing

Statement	Yes	No
In line 13, replace the Add method with Insert.	○	○
In line 15, replace the WriteTo method with ReadFrom.	○	○
Change the ItemObject variable type from JsonObject to JsonToken.	○	○
Move line 08 in the beginning of REPEAT..UNTIL.	○	○

In line 13, replace the Add method with Insert. = NO In line 15, replace the WriteTo method with ReadFrom. = NO Change the ItemObject variable type from JsonObject to JsonToken. = NO Move line 08 in the beginning of REPEAT .. UNTIL.

= YES The provided code is intended to serialize a list of items from the Item table into a JSON array format. Here is a breakdown of the code and the necessary corrections:

In line 13, "ItemsArray.Add(ItemObject)": This line is correctly using the Add method to add the ItemObject to the ItemsArray. The Add method is the correct method to use for adding items to a JsonArray. Therefore, there is no need to replace

Add with Insert.

In line 15, "ItemsArray.WriteTo(RequestText)": The WriteTo method is used correctly to serialize the ItemsArray into a JSON formatted string and store it in the RequestText variable. The ReadFrom method is used for the opposite operation,

i.e., to deserialize a JSON formatted string into a JsonArray, which is not the goal in this context. Hence, no change is needed here. Change the ItemObject variable type from JsonObject to JsonToken: The ItemObject variable is intended to

hold JSON objects representing individual items, making JsonObject the appropriate type. JsonToken is not a type used in this context within AL for Business Central, and thus the variable type should remain as JsonObject.

Move line 08, "Clear(ItemObject)": This line should be moved inside the repeat loop to ensure that the ItemObject is

cleared for each item in the loop. Placing it before the repeat would only clear it once before the loop starts, which could lead

to incorrect serialization as the previous item\\'s properties would not be cleared from the ItemObject.

The logic for serializing records into JSON is a common operation when interfacing with APIs or web services in Business Central, and the pattern shown in the code is typical for such operations.

QUESTION 3

HOTSPOT

A company has a page named New Job Status connected to a source table named Job. The page has an action named Item Ledger Entries. The company requires the following changes to the page:

1.

Filter the page to display only jobs with open or quote status.

2.

Add the following comment for internal use: This page does not include completed jobs.

3.

Item Ledger Entries action must open the selected job on the page and display it in the UI for users to modify.

You need to select the property selections to use for each requirement.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Page modifications

Requirement	Property selection
Display status of open or quote.	SourceTableView = sorting(Status) order(ascending) SourceTableView = where(Status = filter(Open | Quote | Planning)); SourceTableView = where(Status = filter(Open | Quote));
Add a comment for internal use.	Description = 'This page does not include completed jobs'; ToolTip = 'This page does not include completed jobs';
Action must open selected job on the page.	RunPageLink = "Job No." = FIELD("No."); RunPageView = "Job No." = FIELD("No.");

Correct Answer:

Page modifications

Requirement	Property selection
Display status of open or quote.	▼
	SourceTableView = sorting(Status) order(ascending)
	SourceTableView = where(Status = filter(Open | Quote | Planning));
	SourceTableView = where(Status = filter(Open | Quote));
Add a comment for internal use.	▼
	Description = 'This page does not include completed jobs';
	ToolTip = 'This page does not include completed jobs';
Action must open selected job on the page.	▼
	RunPageLink = "Job No." = FIELD("No.");
	RunPageView = "Job No." = FIELD("No.");

QUESTION 4

HOTSPOT

A company plans to integrate tests with its build pipelines.

The company has two Docket sandbox environments: SandboxA and SandboxB.

You observe the following:

1.

SandboxA is configured without the Test Toolkit installed.

2.

SandboxB must be configured from scratch. The Test Toolkit must be installed in SandboxB during configuration.

You need to configure the sandbox environments.

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

Hot Area:

Test Toolkit

```
                                          ▼    -containerName SandboxA
includeTestToolkit
includeTestFramework
Install-TestToolkitToBcContainer
Import-TestToolkitToBcContainer


$artifactUrl = Get-BcArtifactUrl -type 'OnPrem' -country 'w1'
$licenseFile = 'C:\Lic\license.bclicense'
Get-BcArtifactUrl -type 'OnPrem' -country 'w1'
New-BcContainer `
        -accept_eula `
        -containerName 'SandboxB' `
        -artifactUrl $artifactUrl `
        -imageName 'ImageB' `
        -licenseFile $licenseFile `

                                          ▼    `
includeTestToolkit
includeTestFramework
Install-TestToolkitToBcContainer
Import-TestToolkitToBcContainer

-includeAL `
-vsixFile (Get-LatestAlLanguageExtensionUrl) `
-updateHosts
```
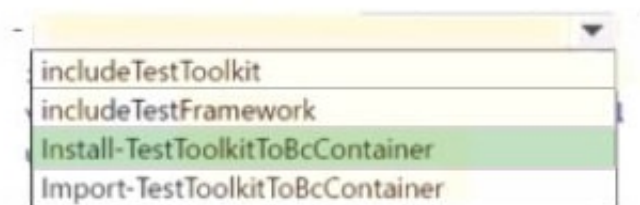
Correct Answer:

Test Toolkit

```
                                                    ▼   -containerName SandboxA
  includeTestToolkit
  includeTestFramework
  Install-TestToolkitToBcContainer
  Import-TestToolkitToBcContainer


$artifactUrl = Get-BcArtifactUrl -type 'OnPrem' -country 'w1'
$licenseFile = 'C:\Lic\license.bclicense'
Get-BcArtifactUrl -type 'OnPrem' -country 'w1'
New-BcContainer `
      -accept_eula `
      -containerName 'SandboxB' `
      -artifactUrl $artifactUrl `
      -imageName 'ImageB' `
      -licenseFile $licenseFile `

  -                                         ▼      `
  includeTestToolkit
  includeTestFramework
  Install-TestToolkitToBcContainer
  Import-TestToolkitToBcContainer

-includeAL `
-vsixFile (Get-LatestAlLanguageExtensionUrl) `
-updateHosts
```

Based on the PowerShell script snippet you\'ve provided and the scenario described, you need to configure Docker sandbox environments for a company with specific requirements for Test Toolkit installations.

For SandboxA, since it is configured without the Test Toolkit installed, you would typically use the PowerShell cmdlet Install-TestToolkitToBcContainer to install the Test Toolkit into the Business Central Docker container.

For SandboxB, which must be configured from scratch with the Test Toolkit installed during configuration, you would include the Test Toolkit as part of the New-BcContainer script block that creates the container.

The relevant cmdlets and parameters for SandboxB would include:

-includeTestToolkit: This parameter ensures that the Test Toolkit is included during the creation of the new container.

Given the limited context from the image, here\'s how you should complete the cmdlets for SandboxB:

Add -includeTestToolkit in the New-BcContainer script to ensure the Test Toolkit is installed when creating SandboxB.

Since you are setting up SandboxB from scratch, you don\'t need to run Install- TestToolkitToBcContainer separately as the toolkit will be included at the time of container creation with the -includeTestToolkit parameter. For the New-

BcContainer cmdlet, you would fill in the placeholders with the appropriate values for artifactUrl, imageName, and licenseFile if they are required for your specific setup.

QUESTION 5

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 on the review screen.

A company creates a Business Central app and a table named MyTable to store records when sales orders are posted.

Users report the following issues:

1.

 The users receive permission errors related lo MyTable.

2.

 Users are no longer able to post sales orders since installing the new app.

3.

 The users cannot access the list page created in MyTable.

You need to resolve the user issues without creating new permission sets. You must use the principle of least privilege.

Solution: In the MyTable object add the property InherentPermissions = RI. Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

The property InherentPermissions is used to automatically grant permissions to the table object it is applied to, but setting it to RI (which seems to be a typo and should likely be \\'RL\\' for Read and Insert permissions) is not sufficient in this scenario. The issues reported by the users suggest that they need more than just read and insert permissions on MyTable. Since users are unable to post sales orders, they likely need Modify, Delete, or Execute permissions on certain tables or objects related to the sales order process. Additionally, the inability to access the list page created in MyTable could be due to lacking Read permissions on other related objects or pages. Therefore, merely setting InherentPermissions = RL on MyTable does not comprehensively address the users\\' permission issues, especially when considering the principle of least privilege. A more tailored approach to permissions, potentially involving adjustments to the app\\'s code or configuration to ensure proper permissions are applied where necessary, would be needed.

QUESTION 6

You have a decimal variable named AmountlCY.

You need to round up the variable to four decimal places. Which result value should you use?

A. Result: = Round (AmountLCY,A. \\'>"}:

B. Result: = Round {AmountLCY. 0.0001. =\\');

C. Result: = Round (AmountLCY. 0.0001. \\'