

# Microsoft Power Platform Developer

## 1. DRAG DROP (Drag and Drop is not supported)

You need to select connectors for the app.

Which types of connectors should you use? To answer, drag the appropriate connectors to the correct requirements. Each connector 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:

### Answer Area

Connectors	Requirement	Connectors
Create a custom connector.	View full registration records.	
Use an AppSource connector.	View customer names.	
Use a native application function.	View daily registrations.	
Create a connector with a Postman collection.		

A. See Explanation section for answer.

Answer(s): A

## 2. HOTSPOT (Drag and Drop is not supported)

A company updates their client contact information periodically. The contact entity has alternate keys defined. You have the following code. (Line numbers are included for reference only.)

```
1. Entity contact = new Entity()
2. {
3.     LogicalName = "contact",
4.     KeyAttributes =
5.     {
6.         {"lastname", "Smith"},
7.         {"clientnumber", "abc123"}
8.     }
9. },
10 contact["lastname"] = "Doe";
11. UpsertRequest updcontact = new UpsertRequest ();
12. {
13.     Target = contact;
14. }
15. UpsertResponse response = ( UpsertResponse )service.Execute(updcontact);
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

Statement	Yes	No
If the last name is an alternate key and there are no contacts with the last name Smith, the stored value of the last name is Smith.	<input type="radio"/>	<input type="radio"/>
If the client number is an alternate key and the client number exists, the stored value of the last name is Smith.	<input type="radio"/>	<input type="radio"/>
If the last name is an alternate key and there are people who have the last name Smith, the stored value of the last name is Smith.	<input type="radio"/>	<input type="radio"/>
If the client number is an alternate key and the client number does not exist, the stored value of the last name is Smith.	<input type="radio"/>	<input type="radio"/>

A. See Explanation section for answer.

Answer(s): A

### 3. HOTSPOT (Drag and Drop is not supported)

A company is building a new model-driven app.

The app must integrate with a number of on-premises and cloud solutions. No VPNs are in place. You need to determine the method for each integration.

Which methods 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

Integration	Method
Outbound synchronous calls to a third-party Web API service	<input type="text" value="▼"/> Webhook Microsoft Flow Azure Event Hub Azure Service Bus
Calls to and from a website hosted in Azure with high peak loads	<input type="text" value="▼"/> Plug-in Webhook Azure Event Hub Azure Service Bus
Outbound calls to multiple on-premises and cloud systems to notify of customer address changes	<input type="text" value="▼"/> Plug-in Azure Event Hub Webhook

A. See Explanation section for answer.

Answer(s): A

4. 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 once correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a one-way integration from the Microsoft Dataverse to another system.

You must use an Azure Function to update the other system. The integration must send only newly created records to the other system. The solution must support scenarios where a component of the integration is unavailable for more than a few seconds to avoid data loss.

You need to design the integration solution.

Solution: Register a webhook in the Dataverse instance that connects to the Azure Function. Register a step on the webhook which runs synchronously on the record's Create message and in the post-operation stage.

Does the solution meet the goal?

A. Yes

B. No

**Answer(s): B**

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**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 once correct solution, while others might not have a correct solution.

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You need to design the integration solution.

Solution: Register a service endpoint in the Dataverse instance that connects to an Azure Service Bus queue.

Register a step at the endpoint which runs asynchronously on the record's Create message and in the post-operation stage.

Configure the Azure Function to process records as they are added to the queue.

Does the solution meet the goal?

A. Yes

B. No

**Answer(s): A**

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**6. 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 once correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a one-way integration from the Common Data Service to another system.

You must use an Azure Function to update the other system. The integration must send only newly created records to the other system. The solution must support scenarios where a component of the integration is unavailable for more than a few seconds to avoid data loss.

You need to design the integration solution.

Solution: Configure the Azure Function with a timer trigger that runs every five minutes. The function will query the Common Data Service and process records created in the last five minutes. Does the solution meet the goal?

A. Yes

B. No

**Answer(s):** B

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**7. DRAG DROP** (Drag and Drop is not supported)

An organization uses plug-in to retrieve specific information from legacy data stores each time a new order is submitted.

You review the Common Data Service analytics page. The average plug-in execution time is increasing. You need to replace the plug-in with another component, reusing as much of the current plug-in code as possible.

Which five 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**

Refactor the plug-in logic in the app.

Create an Azure Function app.

Register a service endpoint for the app in the Plug-in Registration tool.

Create an Azure Logic app.

Register a step in the webhook.

Register a webhook for the app in the Plug-in Registration tool.

Publish the app.

Register a step in the service endpoint.



A. See Explanation section for answer.

**Answer(s):** A

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**8. DRAG DROP** (Drag and Drop is not supported)

You need to select the appropriate methods using Azure Event Grid.

Which method should you use for each requirement? To answer, drag the appropriate methods to the correct requirements. Each method 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:

## Answer Area

Sources	Requirement	Method
<input type="checkbox"/> Event handler	Notify the infrastructure team when a new virtual machine is created.	<input type="checkbox"/>
<input type="checkbox"/> Event subscription		
<input type="checkbox"/> Event sources	Route orders over \$5,000 to the credit department.	<input type="checkbox"/>
<input type="checkbox"/> Events		

A. See Explanation section for answer.

Answer(s): A

9. HOTSPOT (Drag and Drop is not supported)

You create a Power Platform solution to track purchasing requirements for bills of material (BOMs) and their subcomponents.

The solution must meet the following requirements:

- Ensure that the BOMs are enabled to include the necessary subcomponents.
- Report changes to the BOMs or their sub-components that are made by engineers.

You need to configure the solution.

What should you do to meet each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

Requirement	Action
Ensure the BOMs can include necessary subcomponents.	<input type="checkbox"/> Configure entity relationships. <input type="checkbox"/> Configure Quick View. <input type="checkbox"/> Configure environment variables.
Report who changed the BOM records and when the changes were made.	<input type="checkbox"/> Configure entity change tracking. <input type="checkbox"/> Configure entity auditing. <input type="checkbox"/> Configure environment variables.

A. See Explanation section for answer.

Answer(s): A

10. Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than once correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions

will not appear in the review screen.

You are designing a one-way integration from the Microsoft Dataverse to another system.

You must use an Azure Function to update the other system. The integration must send only newly created records to the other system. The solution must support scenarios where a component of the integration is unavailable for more than a few seconds to avoid data loss.

You need to design the integration solution.

Solution: Register a service endpoint in the Dataverse instance that connects to an Azure Service Bus queue.

Create and register an Azure-aware plug-in that uses the service endpoint.

Register a step on the plug-in that runs asynchronously on the record's Create message and in the post-operation stage.

Configure the Azure Function to process records as they are added to the queue.

Does the solution meet the goal?

A. Yes

B. No

**Answer(s):** A

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**11. HOTSPOT** (Drag and Drop is not supported)

You create an alternate key named AlternateKey1 on the Account entity. The definition for AlternateKey1 is shown in the following exhibit:

**Entities > Account**

Fields Relationships Business rules Views Forms Dashboards Charts Keys

Display name ↑ ▾	Name ▾	Fields ▾
AlternateKey1	cr27f_AlternateKey1	Account Number, Account Name

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

How is uniqueness enforced based on the definition of AlternateKey1?

▾

The combination of Account Number and Account Name must be unique
Either Account Number or Account Name must be unique
Account Number and Account Name must both be unique

You must add a third field to AlternateKey1. What should you do?

▾

Update AlternateKey1 and add the missing field
Delete AlternateKey1 and re-create it with all three fields
Create a new alternate key named AlternateKey2 with only the missing field

A. See Explanation section for answer.

**Answer(s):** A

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12. HOTSPOT (Drag and Drop is not supported)

A delivery service uses a canvas app to track and deliver packages. The app uses SQL Server as a data store. The database includes the following tables:

Table	Comments
Receivers	Stores information about customers who receive delivered goods. The table uses an identity column named uniquely identify each record.
Packages	Stores information about package details. Employees update package details during delivery to reference the who received the package.

The app includes the following code to save all required information. (Line numbers are included for reference only.)

```
ClearCollect(
    Result,
    Patch(
        Receivers,
        Defaults(Receivers),
        {
            SignedByFN: txtInFirstName.Text,
            SignedByID: txtInID.Text
        }
    )
);
Patch(
    Packages,
    Defaults(Packages),
    {
        SBSqlid: First(Result).SBSqlid,
        TrackingNo: lblPackage.Text
    }
);
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
The Patch statement populates the identity column when a record is created.	<input type="radio"/>	<input type="radio"/>
The Patch statement at line 03 creates a reference to the customer who received a specific package.	<input type="radio"/>	<input type="radio"/>
You must add a lookup function to ensure that the code correctly creates a reference to the customer who receives a package.	<input type="radio"/>	<input type="radio"/>
The Patch statement at line 12 merges records.	<input type="radio"/>	<input type="radio"/>

A. See Explanation section for answer.

Answer(s): A

13. A company plans to replicate a Dynamics 365 Sales database into an Azure SQL Database instance for reporting purposes. The Data Export Service solution has been installed.

You need to configure the Data Export service.

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

NOTE: Each correct selection is worth one point.

A. Enable auditing for all entities that must be replicated to Azure SQL Database.

B. Create an export profile that specifies all the entities that must be replicated.

C. Set up server-based integration.

D. Enable change tracking for all entities that must be replicated to Azure SQL Database.

E. Create an Azure SQL Database service in the same tenant as the Dynamics 365 Sales environment.

**Answer(s):** B D E

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**14. HOTSPOT** (Drag and Drop is not supported)

A company must copy customer account data changes from a Microsoft Dataverse instance into an external system. Azure Storage Queues are used to pass the changes from Dataverse to the external system.

You have the following code. (Line numbers are included for reference only.)

```
01 string token = null;
02 token = ProcessAccountChanges(_service, token, changeQueue, deleteQueue);
03 ...
04 token = ProcessAccountChanges(_service, token, changeQueue, deleteQueue);
05 ...
06 private static string ProcessAccountChanges(IOrganizationService orgservice,
string token, CloudQueue changeQueue, CloudQueue deleteQueue)
07 {
08     var request = new RetrieveEntityChangeRequest();
09     request.EntityName = "account";
10     request.Columns = new ColumnSet("name", "accountnumber", "creditlimit",
"ownerid");
11     request.DataVersion = token;
12     RetrieveEntityChangeResponse response = (RetrieveEntityChangeResponse)
orgservice.Execute(request);
13     token = response.EntityChanges.DataToken;
14     foreach (var change in response.EntityChanges.Changes)
15     {
16         if (change.Type == ChangeType.NewOrUpdated)
17         {
18             var changedItem = (NewOrUpdatedItem) change;
19             Entity newOrChangedEntity = (Entity) changedItem.NewOrUpdatedEntity;
20             CloudQueueMessage changemessage = new CloudQueueMessage
(newOrChangedEntity.Id.ToString());
21             changeQueue.AddMessage(changemessage);
22         }
23         else if (change.Type == ChangeType.RemoveOrDeleted)
24         {
25             var deleteditem = (RemovedOrDeletedItem) change;
26             EntityReference deletedEntityReference = deleteditem.RemovedItem;
27             CloudQueueMessage deletemessage = new CloudQueueMessage
(deletedEntityReference.Id.ToString());
28             deleteQueue.AddMessage(deletemessage);
29         }
30     }
31     return token;
32 }
```

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

NOTE: Each correct selection is worth one point.



Hot Area:

## Answer Area

Statement	Yes	No
The first call to ProcessAccountChanges at line 2 adds changes made to account records to the storage queues.	<input type="radio"/>	<input type="radio"/>
The second call to ProcessAccountChanges at line 4 adds changes made to account records to the storage queues.	<input type="radio"/>	<input type="radio"/>
The messages in changeQueue specify whether the accounts are new or updated.	<input type="radio"/>	<input type="radio"/>
A message is added to deleteQueue if an account is created and subsequently deleted at line 3.	<input type="radio"/>	<input type="radio"/>

A. See Explanation section for answer.

**Answer(s):** A

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**15.** You are creating a Power Automate flow.

You create an Azure Service Bus listener app that receives requests from a third-party application.

When the flow calls the message queue, it must delete the message as soon as it is read.

You need to ensure that the queue is cleared properly.

Which method or class should you use?

A. ReceiveMode

B. BrokeredMessage

C. EventHubReceiver

D. EventHubSender

**Answer(s):** A

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**16.** As part of the month-end financial closing process, a company uses a batch job to copy all orders into a staging database.

The staging database is used to calculate any outstanding amounts owed by clients, and must process all historical data.

You need to ensure that only the data affected during the month is included in the integration process.

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

NOTE: Each correct selection is worth one point.

A. Use change tracking on the orders and run the integration to retrieve new orders and the orders that have the total amount changed in the last month.

B. Create a system view with the orders that have the Modified On field in the last month and run the integration on this subset.

C. Use change tracking on the order lines and run the integration every week and retrieve only the order lines that have been created or deleted in the last month.

- D. Create a system view with the order lines that have the Modified On field in the last month and run the integration on this subset.

**Answer(s):** A D

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**17.** A company is creating a one-way integration from Microsoft Dataverse to an external system. Data will be sent from a webhook to an Azure Function.

You need to configure the Azure Function to handle data from the webhook.

Which class and data type must the Azure Function handle?

A. RemoteExecutionContext in .NET binary format

B. RemoteExecutionContext in JSON format

C. RemoteExecutionContext in XML format

D. IPluginExecutionContext in JSON format

E. IPluginExecutionContext in XML format

**Answer(s):** B

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**18. HOTSPOT** (Drag and Drop is not supported)

An online store has a custom web page that allows customers to place their orders against a Microsoft Dataverse database that uses custom products. The custom web page uses Web API patterns to create and update records.

Customers report that orders can be placed for out-of-stock items.

You need to update the page code to ensure that inventory is available before confirming an order.

Which pattern should you use for each step? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

Step	Pattern
Check the inventory table before retrieving the inventory record.	<input type="text" value="ChangeTrackingEnabled"/> <input type="text" value="DaysSinceRecordLastModified"/> <input type="text" value="IsOptimisticConcurrencyEnabled"/>
Update the quantity on the inventory record using PATCH.	<input type="text" value="If-Match: *"/> <input type="text" value="If-Match: Etag"/> <input type="text" value="If-None-Match: *"/> <input type="text" value="If-None-Match: Etag"/>

A. See Explanation section for answer.

**Answer(s):** A

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19. HOTSPOT (Drag and Drop is not supported)

You need to package and deploy a Power Apps code component to an environment.

Which commands 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	Command
Package	<pre>pac solution init --publisher-name Contoso --publisher-prefix cto pac auth create --url https://contoso.crm.dynamics.com pac pcf push --publisher-prefix pac solution add-reference --path c:\downloads\mysamplecomponent</pre>
Connect	<pre>pac solution init --publisher-name Contoso --publisher-prefix cto pac auth create --url https://contoso.crm.dynamics.com pac pcf push --publisher-prefix pac solution add-reference --path c:\downloads\mysamplecomponent</pre>
Deploy	<pre>pac solution init --publisher-name Contoso --publisher-prefix cto pac auth create --url https://contoso.crm.dynamics.com pac pcf push --publisher-prefix pac solution add-reference --path c:\downloads\mysamplecomponent</pre>

A. See Explanation section for answer.

Answer(s): A

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20. You are creating an integration between Microsoft Dataverse and an external system.

Messages from Dataverse must be sent to Microsoft Azure Service Bus. An Azure Function will process the messages. Events must be published directly to the ServiceEndpoint for Azure Service Bus.

You need to create code for the messages.

Which class should you use?

A. RemoteExecutionContext

B. IWorkflowContext

C. IPluginExecutionContext

D. IExecutionContext

Answer(s): A

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