

# Microsoft

## Exam Questions PL-400

Microsoft Power Platform Developer



### NEW QUESTION 1

- (Exam Topic 1)

You need to determine the primary cause of the issue reported by interns when they use the app. What is the primary cause?

- A. Interns have the System Customizer security role but need the Environment Maker security role.
- B. Interns have the Common Data Service User security role but need the Environment Maker security role.
- C. Interns have the Environment Maker security role but need the Common Data Service User security role.
- D. Interns have the Environment Maker security role but need the System Customizer security role.
- E. Interns have the Environment Maker security role but need the Delegate security role.

**Answer: D**

#### Explanation:

Scenario: Interns can create apps but cannot interact with their own data.

Environment Maker role: Can create new resources associated with an environment, including apps, connections, custom APIs, gateways, and flows using Microsoft Power Automate. However, this role doesn't have any privileges to access data within an environment.

System Customizer role: full permission to customize the environment. However, users with this role can only view records for environment entities that they create.

### NEW QUESTION 2

- (Exam Topic 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 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: B**

#### Explanation:

Instead use Azure Service Bus queue solution with asynchronous communication. Reference:  
<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/azure-integration>

### NEW QUESTION 3

- (Exam Topic 4)

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.

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

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Box 1: Webhook

With Dataverse, you can send data about events that occur on the service to a web app by using webhooks. A webhook is a lightweight HTTP pattern for

connecting web APIs and services with a publish-and-subscribe model. Webhook senders notify receivers about events by making requests to receiver endpoints with some information about the events.

Webhooks enable developers and ISVs to integrate Dataverse data with their own custom code hosted on external services.

Box 2: Azure Service Bus

Service Bus provides a secure and reliable communication channel between Dataverse runtime data and external, cloud-based line-of-business apps. This capability is especially useful in keeping disparate Dataverse systems or other Dataverse servers synchronized with business data changes.

Box 3: Azure Event hub

Azure Event Hubs is a big data streaming platform and event ingestion service. It can receive and process millions of events per second. Data sent to an event hub can be transformed and stored by using any real-time analytics provider or batching/storage adapters.

Note: The most popular approaches in Dataverse involve webhooks, Azure messaging (Service Bus, Event Hubs), Azure Logic Apps, or Power Automate.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/why-cds-any-type-app>

#### NEW QUESTION 4

- (Exam Topic 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. Determine whether the solution meets 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.

A university has implemented Dynamics 365 Customer Engagement. Several departments use opportunity records to bid for funding for projects within their own departments.

Each department's opportunities are not visible to other departments. However, there are times when two departments need to work together on an opportunity.

You need to configure the security to meet the business requirements.

Solution: Use access team templates and give access to members in the two departments. Does the solution meet the goal?

A. Yes

B. No

**Answer: A**

#### Explanation:

Access Team template

The privileges assigned to the access team through Access Team Templates. Access Team template allows you to create a template for the entities on which "Access Teams" option is enabled. You can grant or restrict access to the entity records through "Access Rights". Essentially, this is like a record-based security model on an entity record for specific users.

Once the access team template is created and added to the entity form, you can start adding users. For example, on an opportunity record add a new user in the Access Team Template sub-grid.

Reference:

<https://community.dynamics.com/crm/b/crmdevmigrationconfigandcustomization/posts/access-teams-and-acces>

#### NEW QUESTION 5

- (Exam Topic 4)

A company uses a model-driven app to record details of laboratory test.

You are asked to create a custom component that makes it easier to capture multiple values from lab test results on mobile devices.

You need to create the interface for the dataset in case the mobile devices lose connection to the network. Which method should you use?

A. SaveData

B. updateView

C. init

D. getClient

**Answer: A**

#### Explanation:

Use LoadData and SaveData for basic data storage while offline. Note:

When building mobile apps, one of the most common scenarios app makers face is how to enable their users be productive in situations where there is limited or no connectivity at all. This has been one of the most requested features for PowerApps to allow running apps while being disconnected and to provide some support for offline data caching. In this release of PowerApps, we are delivering the first set of improvements for app makers to achieve that by enabling:

- Launching the PowerApps mobile player app offline
- Running apps while being offline
- Determine when your app is online or offline or in a metered connection by using the Connection signal object.
- Leverage existing formulas such as LoadData and SaveData for basic data storage while offline.

Reference:

<https://powerapps.microsoft.com/sv-se/blog/build-offline-apps-with-new-powerapps-capabilities/>

#### NEW QUESTION 6

- (Exam Topic 4)

You are creating a flow using the Common Data Service (CDS) connector. You need to select the appropriate triggers.

Which triggers should you use? To answer, drag the appropriate triggers to the correct scenarios. Each trigger 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.

Triggers	Answer Area	
	Scenario	Trigger
Record creation	Choose accounts that are in the USA and send those account contacts an email.  Contacts that have not been modified in 60 days should no longer be in the system.  An area code has been mistyped in all records.	Trigger
Record selection		Trigger
Record deletion		Trigger
Record update		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Triggers	Answer Area	
	Scenario	Trigger
Record creation	Choose accounts that are in the USA and send those account contacts an email.  Contacts that have not been modified in 60 days should no longer be in the system.  An area code has been mistyped in all records.	Record selection
Record selection		Record deletion
Record deletion		Record update
Record update		

**NEW QUESTION 7**

- (Exam Topic 4)

A fine arts school uses a custom canvas application based on the Common Data Service (CDS) platform. Artists experience errors on their Artist canvas app and delays when switching pages. You need to identify the root causes of these issues. Which troubleshooting methods should you use? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

Issue	Troubleshooting method
Artist canvas app has errors.	<div> <div>PowerApp Checker</div> <div>Solution Checker</div> <div>Site Map validation</div> </div>
Application runs slowly.	<div> <div>PowerApps Admin Center</div> <div>Service Performance in PowerApps Analytics</div> <div>Dynamics 365 Service Health</div> <div>PowerApps client session details</div> </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Site Map validation  
 When you validate the app, the app designer canvas shows you details about the assets that are missing. In the app designer, select Validate.



A notification bar appears and shows you whether the app has any errors or warnings. The notification bar shows warnings in cases where, for example, an entity has no forms or views, or the app doesn't contain any components. An error might appear if a site map isn't configured for the app.



Reference:  
<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/validate-app>  
<https://community.dynamics.com/crm/b/crminthefield/posts/monitoring-the-power-platform-canvas-driven-apps>

**NEW QUESTION 8**

- (Exam Topic 4)

A company delivers packages to businesses and consumers. A custom entity named Package captures the package details.

You need to add the following sets of fields to the entity and leverage the built-in operations of the platform:

- > A set of fields to represent the package length, width, depth, and weight. The maximum value for any dimension is 100 centimeters.
- > A set of fields for time-sensitive attributes to calculate the efficiency of a delivery based on when the delivery is entered in the system and the existing custom fields: Pickup time and Delivery time.

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

NOTE: Each correct selection is worth one point.

Requirement	Construct
Calculate the efficiency of the delivery.	<div>DIFFINMINUTES(Created On, Modified On)</div> <div>DIFFINMINUTES(Created On, Delivery Time)</div> <div>DIFFINHOURS(Created On, Modified On)</div> <div>DIFFINHOURS(Created On, Delivery Time)</div>
Select the data type that has additional transformations applied before the data is displayed.	<div>Autonumber</div> <div>Phone number</div> <div>Customer</div> <div>Currency</div> <div>Duration</div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: DIFFINMINUTES(Created on, Delivery Time)  
DIFFINMINUTES (date and time, date and time) returns the difference in minutes between two Date and Time columns.  
Box 2: Duration Reference:  
<https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/define-calculated-fields>

**NEW QUESTION 9**

- (Exam Topic 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 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 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: Register a service endpoint in the Common Data Service 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 portoperation 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:** A

**Explanation:**

Microsoft Dataverse supports integration with Azure.  
For the Dataverse and Azure connection to work, there must be at least one solution in an Azure Service Bus solution account, where the solution contains one or more service endpoints.  
For a queue endpoint contract, a listener doesn't have to be actively listening. Reference:  
<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/azure-integration>

**NEW QUESTION 10**

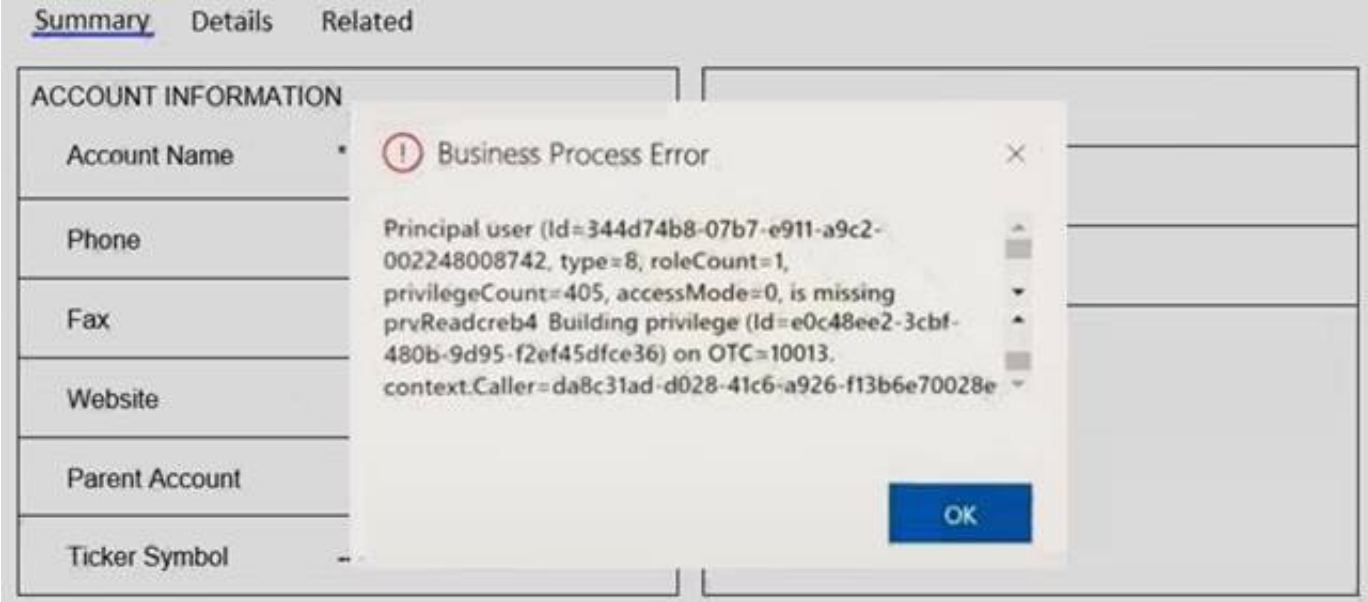
- (Exam Topic 4)  
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals. Some question sets might have more than one correct solution, while others might not have 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.  
A university has implemented Dynamics 365 Customer Engagement. Several departments use opportunity records to bid for funding for projects within their own departments.  
Each department's opportunities are not visible to other departments. However, there are times when two departments need to work together on an opportunity.  
You need to configure the security to meet the business requirements.  
Solution: Share the individual opportunity that member of one department are working on with all members of the second department, and give those members the appropriate permissions. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 10**

- (Exam Topic 4)  
You have a model-driven app that uses the Common Data Service (CDS). You create three custom entities that are in many-to-one parental relationships with the Account entity.  
You run a real-time workflow that assigns an account you own to another user. You receive the error message as shown in the Error Message exhibit. (Click the Error Message tab.)



You check the security roles for the user as shown in the Manage User Roles exhibit. (Click the Manage User Roles tab.).  
You also check the privileges for that role as shown in the Common Data Service User Security Role exhibit. (Click the Security Role tab.)

Details	Core Records	Service	Business Management	Customization	Missing Entities	Business Process Flows	Custom Entities		
Entity	Create	Read	Write	Delete	Append	Append To	Assign	Share	
Account									

Details	Core Records	Service	Business Management	Customization	Missing Entities	Business Process Flows	Custom Entities		
Entity	Create	Read	Write	Delete	Append	Append To	Assign	Share	
Asset									
Building									
Job									

You need to prevent the error from recurring.  
For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE: Each correct selection is worth one point.

Statements	Yes	No
Changing the <b>Append To</b> privilege on the Account entity to <b>Organization</b> prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>
Adding the Environment Maker role to the user prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>
Adding the System Customizer role to the user prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>
Setting all the privileges for the Building entity to <b>User</b> prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

There is a read error. Box 2: No

Note: The Environment Maker role can create resources within an environment including apps, connections, custom connectors, gateways, and flows using Power Automate.

Box 3: Yes

The System Customizer role is similar to the System Administrator role which enables non-system administrators to customize Dynamics 365. A Customizer is a user who customizes entities, attributes and relationships.

Box 4: Yes

**NEW QUESTION 14**

- (Exam Topic 4)

You are creating a Power Apps app that retrieves customer information from Azure Active Directory when you use the app to look up a customer record.

You create an Azure Function by using JSON code to retrieve the customer information. You need to make the application work.

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

NOTE: Each correct selection is worth one point.

- A. Create a Power Automate flow to import data.
- B. Create a custom connector that uses the Azure Function API.
- C. Copy your JSON code to the app.
- D. Create a custom connector that uses the JSON code.
- E. Create an API definition for the Azure Function.

**Answer:** BE

**Explanation:**

E: Before exporting an API, you must describe the API using an OpenAPI definition.

B: This OpenAPI definition contains information about what operations are available in an API and how the request and response data for the API should be structured. PowerApps and Microsoft Flow can create custom connectors for any OpenAPI 2.0 definition.

Reference:

<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/azure-functions/app-service-export-api-topow>

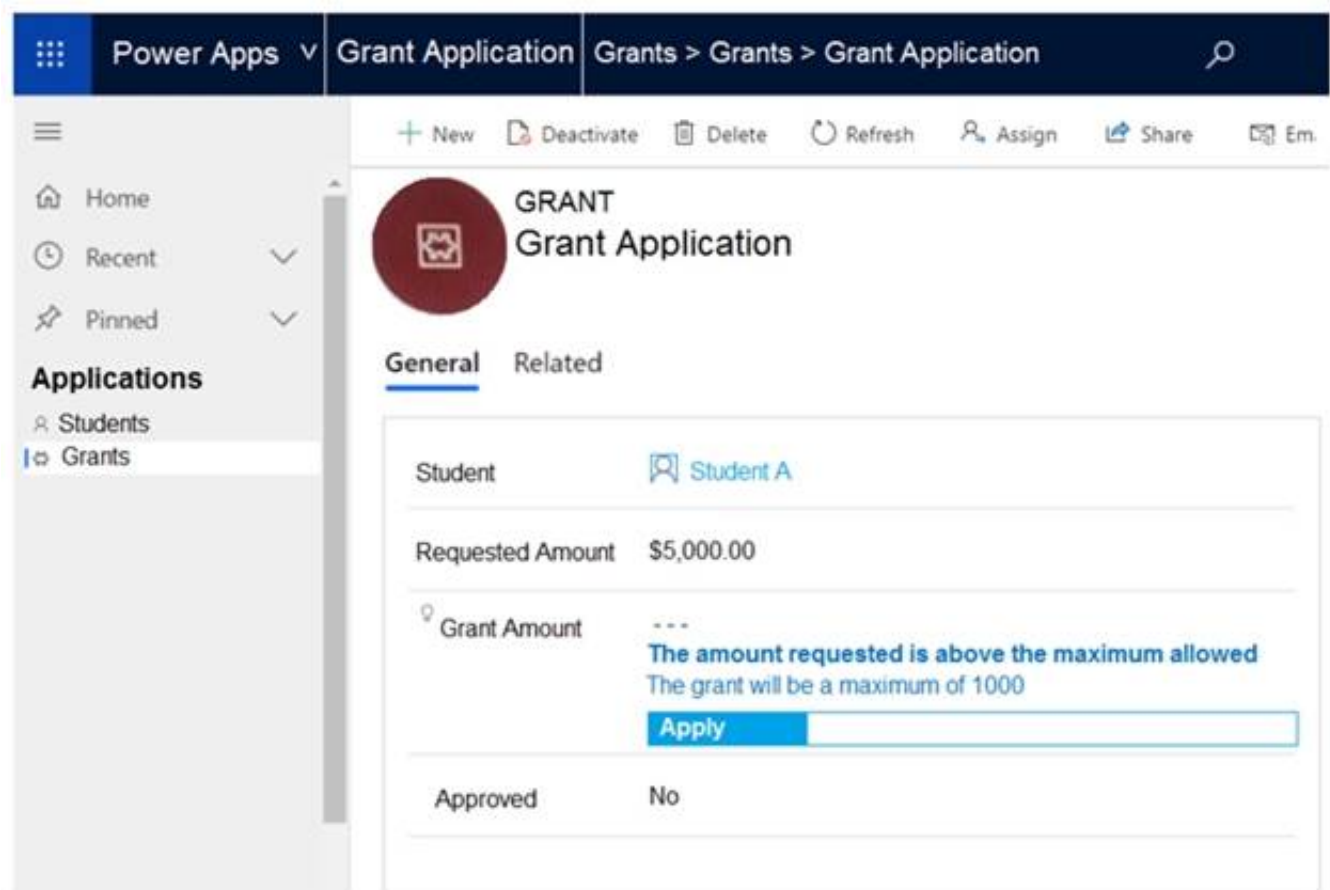
**NEW QUESTION 19**

- (Exam Topic 4)

A university manages grant applications using a model-driven app.

Users report that the message on the Grant Application screen is outdated. The screen shows the following:





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.

Which Power Platform capability does the app use to display the message?

Business rule

Logic app

Flow

Plug-in

What should the app maker do to prevent the message from displaying?

Update the field calculation.

Update the rollup field.

Update the automated flow.

Update the business rule.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Reference:  
<https://www.loganconsulting.com/blog/how-use-power-automate-trigger-workflows-microsoft-dynamics-crm/>

NEW QUESTION 22

- (Exam Topic 4)  
A company uses Dynamics 365 Sales and the Microsoft Online Services portal. The multi-select OptionSet field data type is not supported in the portal. You need to copy the selected field value to the text field.  
How should you configure the Organization service request? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.



```
Entity entity = (Entity)context.InputParameters["Target"];
var attributeRequest = new RetrieveAttributeRequest
{
    EntityLogicalName = "entityname",
    LogicalName = "fieldname",

    RetrieveAsIfPublished =
};

var attributeResponse = (RetrieveAttributeResponse)
service.Execute(attributeRequest);
var attributeMetadata =
(EnumAttributeMetadata)attributeResponse.
```

	▼
true	
false	

	▼
AttributeMetadata	
AttributeResponse	
OptionMetadataCollection	
MultiSelectPicklistAttributeMetadata	

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

If you are creating an attribute editor you will need to retrieve entity data that has been saved but not published. For other scenarios you will want to only retrieve published metadata.

- Set this value to true to include unpublished changes, as it would look if you called publish.
- Set this value to false to include only the currently published changes, ignoring the changes that haven't yet been published.

Box 2: AttributeMetadata

AttributeMetadata class is returned in the RetrieveAttributeResponse. Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.xrm.sdk.messages.retrieveattributerequest.retrieveasifpubl> <https://docs.microsoft.com/en-us/dotnet/api/microsoft.xrm.sdk.metadata.attributemetadata?view=dynamics-gene>

**NEW QUESTION 24**

- (Exam Topic 4)

You are developing a model-driven app for the purchasing department of an organization. You provision a new test environment and a security role. You select users to test the apps and assign the users to a security group named TestSG.

If the tests succeed, a manager will perform additional testing in the production environment and then publish the app for the organization's purchasing department.

You need to ensure that the test and production environments are configured correctly. What should you do? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Scenario	Security artifact
Ensure that only test users can access the test environment.	<div>▼</div> <div> Set the test environment security group to TestSG.  Assign the test users the app security role.  Set the test environment security group to TestSG and assign test users the app security role. </div>
Ensure that only the manager can access the app in production.	<div>▼</div> <div> Set the production environment security group to TestSG.  Assign the manager the app security role.  Add the manager to the TestSG security group and grant the manager the app security role. </div>
Ensure that test users can access the app in production.	<div>▼</div> <div> Set the production environment security group to TestSG.  Assign the test users the app security role.  Set the production environment security group to TestSG and assign test users the app security role. </div>
Ensure that purchasing department users can access the test environment.	<div>▼</div> <div> Remove the security group TestSG associated with the test environment.  Assign all users the app security role.  Add all users in the department to the TestSG security group. </div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Set the test environment security group to TestSG and assign test users the app security role.

PowerApps apps use role-based security for sharing. The fundamental concept in role-based security is that a security role contains privileges that define a set of actions that can be performed within the app. All app users must be assigned to one or more predefined or custom roles.

Box 2: Assign the manager the app security role.

Box 3: Set the production environment security group to TestSG Box 4: Add all users in the department to the TestSG security group. Reference:  
<https://docs.microsoft.com/en-us/powerapps/maker/model-driven-apps/share-model-driven-app>

**NEW QUESTION 25**

- (Exam Topic 4)

You have the following code:

```
Xrm.WebApi.createRecord("account", data).then(
    function success(result) {
        console.log("Success");
    },
    function (error) {
        console.log(error.message);
    }
);
```

You have a contact record that uses the GUID 2CFB1599-DEAD-425F-AB4A-76E6CAB51B09.

You need to assign the contact record as the primary contact for an account when you create the account. Which two code segments can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. 

```
var data =  
{  
    "name": "Contoso account",  
    "primarycontactid@odata.context": "/contacts(2CFB1599-DEAD-425F-AB4A-76E6CAB51B09)"  
};
```

B. 

```
var data =  
{  
    "name": "Contoso account",  
    "primarycontactid":  
    {  
        "logicalname": "contact",  
        "id": "2CFB1599-DEAD-425F-AB4A-76E6CAB51B09"  
    };  
};
```

C. 

```
var data =  
{  
    "name": "Contoso account",  
    "primarycontactid@odata.bind": "/contacts(2CFB1599-DEAD-425F-AB4A-76E6CAB51B09)"  
};
```

D. 

```
var data =  
{  
    "name": "Contoso account",  
    "primarycontactid": "/contacts(2CFB1599-DEAD-425F-AB4A-76E6CAB51B09)"  
};
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** BC

#### NEW QUESTION 29

- (Exam Topic 4)

An organization plans to set up a secure connector for Power Apps. The App will capture tweets from Twitters about the organization's upcoming product for sales follow-up.

You need to configure security for the app. Which authentication method should you use?

- A. OAuth
- B. API key
- C. Windows authentication
- D. Kerberos authentication
- E. Basic authentication

**Answer:** A

#### Explanation:

Configure OAuth2 provider settings for portals.

The OAuth 2.0 based external identity providers involve registering an "application" with a third-party service to obtain a "client ID" and "client secret" pair.

The supported providers are:

- Microsoft Account
- Twitter
- Facebook
- Google
- LinkedIn
- Yahoo

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/portals/configure/configure-oauth2-settings>

#### NEW QUESTION 30

- (Exam Topic 4)

A company has a Common Data Service (CDS) environment. The company creates model-driven apps for different sets of users to allow them to manage and monitor projects.

Finance team users report that the current app does not include all the entities they require and that the existing project form is missing cost information. Cost information must be visible only to finance team users.

You create a security role for finance team users. You need to create a new app for finance team users.

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



Actions	Answer Area
Edit the Project main form. Select <b>Save As</b> to create a new Finance Form, add the missing cost fields and remove the fields not relevant to Finance.	
In the Maker portal, share the Finance app and select the Finance Security role.	
Create a new model-driven app. Add the project entity, and select the Finance Security role.	<div>⬅️⬆️</div>
Create a new model-driven app. Add the project entity, and select the Finance form.	<div>➡️⬆️</div>
Enable security roles and select the Finance Security role on the Finance form.	
Select the Finance app from the My Apps page and configure the app to use the Finance Security role.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Edit the Project main form. Select Save as..

Step 2: Create a new model-driven app. Add the project entity, and select the Finance form. Step 3: Enable security roles and select the Finance Security role on the Finance

Assign security roles to the main form. Use this to make a main form available to specific groups. Step 4: In the Maker portal, share the Finance app and select the Finance Security role.

Sharing a model-driven app involves two primary steps. First, associate a one or more security role(s) with the app then assign the security role(s) to users.

- > Visit <https://make.powerapps.com>
- > Select a model-driven app and click Share.
- > Select the app then choose a security role from the list. Reference: <https://docs.microsoft.com/dynamics365/customer-engagement/admin/assign-security-roles-for>

NEW QUESTION 35

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