

# Microsoft

## Exam Questions PL-400

Microsoft Power Platform Developer



### NEW QUESTION 1

- (Exam Topic 1)

You need to add the script for the registration form event handling. Which code segment should you use?

- A. `formContext.data.entity.addOnSave(myFunction)`
- B. `formContext.data.addOnLoad(myFunction)`
- C. `formContext.data.removeOnLoad(myFunction)`
- D. `addOnPreProcessStatusChange`
- E. `formContext.data.isValid()`

**Answer: B**

#### Explanation:

Scenario: Information about upcoming tournaments must be pre-located into the registration form when the registration form loads.

`addOnLoad` adds event handlers to the Subgrid `OnLoad` event event. Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/grids/gridcontrol/a>

### NEW QUESTION 2

- (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 3

- (Exam Topic 4)

You are creating a model-driven app.

Users need to see only the entities in the app navigation that are relevant to their role and their method of accessing the app.

You need to restrict entities on the sub-areas in the SiteMap.

Which properties should you use? To answer, drag the appropriate properties to the correct requirements. Each property 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.

### Answer Area

Properties	Requirement	Property
Client	Ensure that the entity is visible only if the user can create records.	
Offline Availability	Ensure that the entity is not visible if the user is using an on-premises deployment.	
Privileges	Ensure that the entity is visible only if the user is accessing the app with a web browser.	
SKUs		

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Box 1: Privileges

Privileges: This defines whether a subarea is displayed based on privileges available in any security roles that are assigned to the user.

Box 2: SKU

SKUs: Select the versions of Dynamics 365 that display this subarea. Box 3: Client

Client: Select the type of client that displays this subarea. Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/model-driven-apps/create-site-map-app>

### NEW QUESTION 4

- (Exam Topic 4)

A company uses Dynamics 365 Sales.  
Sales commission must be calculated when an order is placed. You create an Azure Function to perform the calculation. The Azure Function has an HTTP trigger. You need to configure the Plug-in Registration tool to send data to the Azure Function when an order is placed. You open the Plug-in Registration tool and connect to Dynamics 365 Sales.  
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.

Actions

Select Register New Web Hook.

Select Register New Service Endpoint.

Set authentication to **HttpHeader**.

Register a New Step for Create of SalesOrder.

Enter a connection string.

Enter the endpoint URL.

Answer Area

>

<

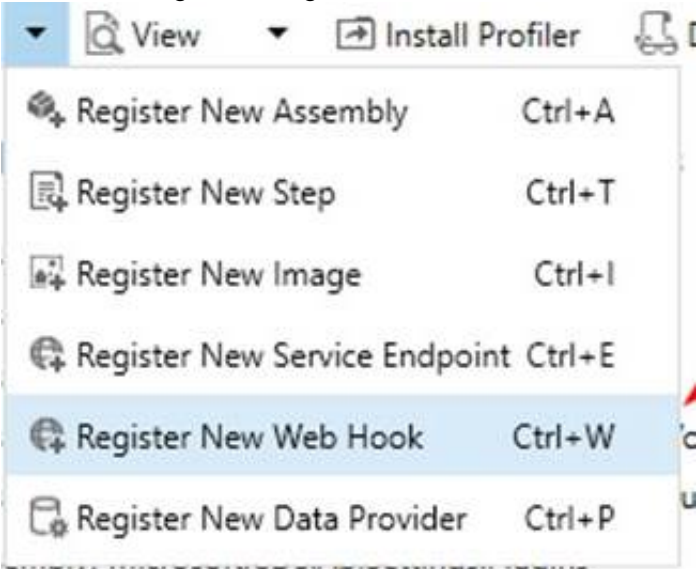
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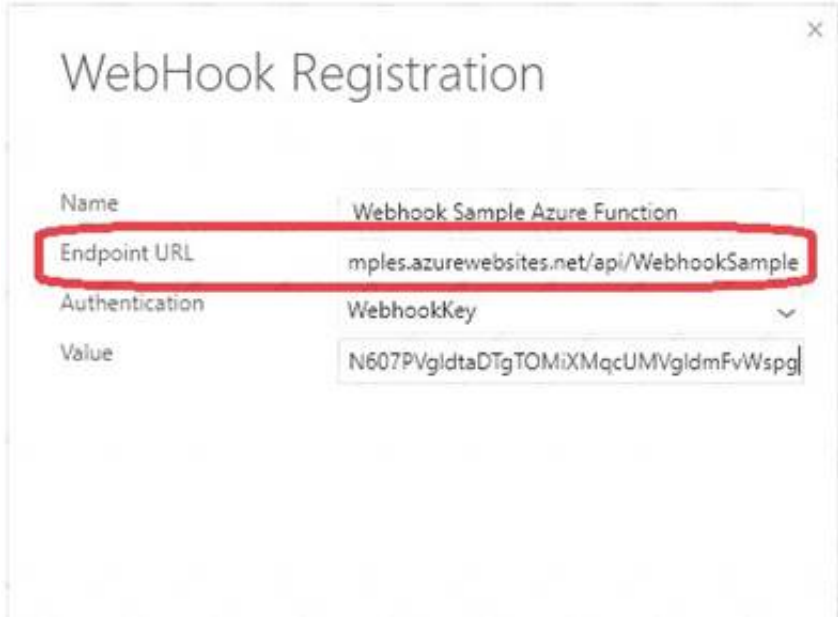
- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Step 1:SelectRegister New Web Hook.  
Configure Dynamics 365 Sales to Call Your Webhook in Azure Functions  
\* 1. Open the Plug-in Registration Tool and connect to your organization.  
\* 2. Select Register->Register New Web Hook



Step 2: Enter the endpoint URL



Step 3: Register a New Step for Create of SalesOrder.  
Register a new webhook, and then tie that webhook to an event in Dynamics 365 Sales. Select your newly registered webhook, right-click it, and then choose "Register New Step."  
Note that the webhook here is set to execute whenever a change to an account record is detected within Dynamics 365 Sales.  
Reference:  
<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/tutorial-write-plugin-in>

**NEW QUESTION 5**  
- (Exam Topic 4)  
You need to complete a PowerApps component framework (PCF) control.

How should you define the order in the manifest? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

```
<resources>
  <code path="scripts/HelloWorldControlWave.js" order="1"/>
  <code path="scripts/HelloWorldControlRandom.js" order="2"/>
  <css path="style/HelloWorldControl.css" order="3"/>
  <html path="HelloWorldControlWaveRandom.htm" order="3"/>
</resources>
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

The order property specifies the order of a flexible item relative to the rest of the flexible items inside the same container.  
 Reference: [https://www.w3schools.com/jsref/prop\\_style\\_order.asp](https://www.w3schools.com/jsref/prop_style_order.asp)

**NEW QUESTION 6**

- (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>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>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>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 7

- (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.

A Common Data Service (CDS) environment has two custom entities named Building code and Work item. Building code has a code date custom field and Work item has an elapsed time custom field. Construction workers use a consolidated custom form with data from both entities to fill in their daily work items.

A JavaScript library is used with these custom entities and fields to apply complex logic.

You need to ensure that the JavaScript library continues to function as originally designed if other developers expand the environment.

Solution: In the JavaScript library, add Building code with Code date and Work item with Elapsed time in the dependencies tab.

Does the solution meet the goal?

A. Yes

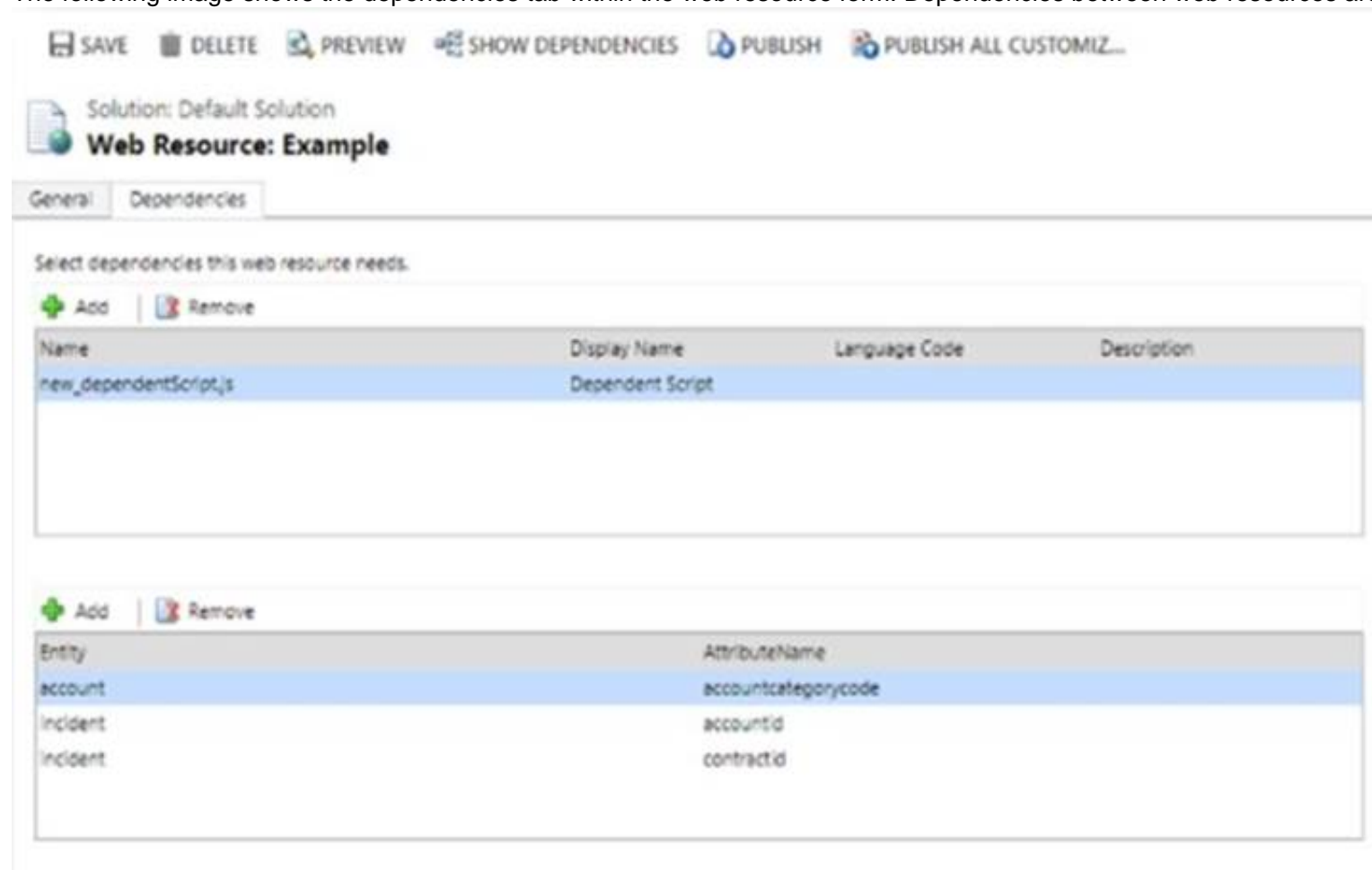
B. No

**Answer: A**

### Explanation:

Within a solution you can define dependencies within solution components. Up until Dynamics 365 for Customer Engagement apps version 9.0 the main purpose of these dependencies was to prevent the deletion of a solution component when another solution component depended on it.

The following image shows the dependencies tab within the web resource form. Dependencies between web resources are set in the top list.



SAVE DELETE PREVIEW SHOW DEPENDENCIES PUBLISH PUBLISH ALL CUSTOMIZ...

Solution: Default Solution

**Web Resource: Example**

General Dependencies

Select dependencies this web resource needs.

Add Remove

Name	Display Name	Language Code	Description
new_dependentScript.js	Dependent Script		

Add Remove

Entity	AttributeName
account	accountcategorycode
incident	accountid
incident	contractid

Reference:

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/web-resource-depe>

## NEW QUESTION 8

- (Exam Topic 4)

You have a Common Data Service entity and a model-driven app. The model-driven app integrates with an external system.

You plan to run business logic each time the model-driven app creates a record. Running business logic must not negatively affect model-driven app users.

You need to implement the business logic. What should you use?

A. Synchronous plug-in registered in the PreOperation stage

B. Synchronous workflow

C. Asynchronous plug-in registered in the PostOperation stage

**Answer: C**

### Explanation:

The asynchronous service executes long-running operations independent of the main Microsoft Dataverse core operation. This results in improved overall system performance and improved scalability.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/asynchronous-service>

## NEW QUESTION 9

- (Exam Topic 4)

You need to select the appropriate methods using the 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.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Event handler

Event handlers - The app or service reacting to the event. Box 2: Event subscriptions

Event subscriptions - The endpoint or built-in mechanism to route events, sometimes to more than one handler. Subscriptions are also used by handlers to intelligently filter incoming events.

Note:

There are five concepts in Azure Event Grid that let you get going: Events - What happened.

Event sources - Where the event took place.





NEW QUESTION 10

- (Exam Topic 4)

A company creates a custom connector to use in a flow named Search Company.

When this custom connector is used, requests must be redirected to a different endpoint at runtime. You need to apply a policy to the custom connector to route calls to a different endpoint.

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.

Actions	Answer Area	
Select the <b>Search Company</b> custom connector in the Microsoft Flow portal under Custom connectors and select <b>edit</b> .		
Select the Definition tab.		
Select the Security tab.		
Select New Action.		
Select References.		
Select New Policy.		
Select the <b>Search Company</b> custom connector in the Microsoft Flow portal under Connections and select <b>edit</b> .		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Select the Search Company custom connector in the Microsoft Flow portal under Custom connectors and select edit.

Login to the Microsoft Flow portal, and on right top corner click on the settings icon and then click on custom connectors option.

Step 2: Select the Definition tab

Policy template are available only for custom connectors. To use a policy template, open Power Automate portal and either create a new custom connector or edit an existing one.

> In the custom connector wizard, select the Definition page.

> From the Definition page, select New Policy.

> Etc.

Step 3: Select New Policy Reference:

<https://docs.microsoft.com/en-us/connectors/custom-connectors/policy-templates>

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 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. A Common Data Service (CDS) environment has two custom entities named Building code and Work item. Building code has a code date custom field and Work item has an elapsed time custom field. Construction workers use a consolidated custom form with data from both entities to fill in their daily work items. A JavaScript library is used with these custom entities and fields to apply complex logic. You need to ensure that the JavaScript library continues to function as originally designed if other developers expand the environment. Solution: In form properties of the consolidated form, add the JavaScript library in the events tab and add the two custom fields to the dependent fields section of the non-event dependencies tab. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead, in the JavaScript library, add Building code with Code date and Work item with Elapsed time in the dependencies tab.

Reference:

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/web-resource-depe>

**NEW QUESTION 15**

- (Exam Topic 4)

A bank uses a Common Data Service solution to manage clients.

Bank representatives perform client credit checks while the client is present. Credit checks may take up to five minutes to complete.

Bank policy dictates that the bank representative's app must stay blocked until credit checks are complete. You need to display a model-driven app while credit checks run to ask the bank representative and client to wait for the credit check to complete.

Which function should you use?

- A. Xrm.Navigation.openWebResource("prefix.myPoliteMessage.html")
- B. Xrm.Navigation.openAlertDialog(myPoliteMessage)
- C. Xrm.Utility.openWebResource("prefix\_myPoliteMessage.html")
- D. Xrm.Utility.showProgressIndicator(myPoliteMessage)

**Answer:** D

**Explanation:**

showProgressIndicator displays a progress dialog with the specified message.

Any subsequent call to this method will update the displayed message in the existing progress dialog with the message specified in the latest method call.

The progress dialog blocks the UI until it is closed using the closeProgressIndicator method. So, you must use this method with caution.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/xrm-utility/showp>

**NEW QUESTION 17**

- (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 21**

- (Exam Topic 4)

A company manages capital equipment for an electric utility company. The company has a SQL Server database that contains maintenance records for the equipment.

Technicians who service the equipment use the Dynamics 365 Field Service mobile app on tablet devices to view scheduled assignments. Technicians use a canvas app to display the maintenance history for each piece of equipment and update the history.

Managers use a Power BI dashboard that displays Dynamics 365 Field Service and real-time maintenance data.

Due to increasing demand, managers must be able to work in the field as technicians. You need to design a solution that allows the managers to work from one single screen. What should you do?

- A. Add the maintenance history app to the Field Service Mobile app.



- B. Add the manager Power BI dashboard to the Field Service mobile app.
- C. Create a new maintenance canvas app from within the Power BI management dashboard.
- D. Add the maintenance history app to the Power BI dashboard.

**Answer:** D

**Explanation:**

Power BI enables data insights and better decision-making, while Power Apps enables everyone to build and use apps that connect to business data. Using the Power Apps visual, you can pass context-aware data to a canvas app, which updates in real time as you make changes to your report. Now, your app users can derive business insights and take actions from right within their Power BI reports and dashboards.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/powerapps-custom-visual>

**NEW QUESTION 26**

- (Exam Topic 4)

A company is preparing to go live with their Dynamics 365Sales solution, but first they need to migrate data from a legacy system. The company is migrating accounts in batches of 1,000.

When the data is saved to Dynamics 365 Sales, the IDs for the new accounts must be output to a log file. You have the following code:

```
1. ExecuteMultipleRequest request = new ExecuteMultipleRequest()
2. {
3.     Settings = new ExecuteMultipleSettings()
4.     {
5.         ContinueOnError = true,
6.         ReturnResponses = false
7.     },
8.     Requests = new OrganizationRequestCollection()
9. };
10. GetAccountData(request.Requests);
11. ExecuteMultipleResponse responseWithResults = (ExecuteMultipleResponse)
    crmSvc.Execute(request);
12. foreach (var responseItem in responseWithResults.Responses)
13. {
14.     . . .
15. }
```

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

Statement	Yes	No
The developer is able to get access to the newly-created accounts IDs.	<input type="radio"/>	<input type="radio"/>
If an error occurs, the developer can get access to the request that caused the fault.	<input type="radio"/>	<input type="radio"/>
If there are errors in the requests, the request will raise an exception at the first error and stop processing.	<input type="radio"/>	<input type="radio"/>
If there are ten errors in the 1,000 CreateRequest requests, ten responses will be returned from the platform.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

Box 2: Yes

ContinueOnError: When true, continue processing the next request in the collection even if a fault has been returned from processing the current request in the collection. When false, do not continue processing the next request.

ReturnResponses: When true, return responses from each message request processed. When false, do not return responses.

When false, the Responses collection will not be empty if errors are returned. If errors are returned, there will be one response item in the collection for each processed request that returned a fault and Fault will be set to the actual fault that occurred.

Box 3: No

Box 4: Yes

For example, in a request collection that contains six requests where the third and fifth request return faults, the following table indicates what the Responses collection would contain.

ContinueOnError=true, ReturnResponses=false: 2 response items: 2 have Fault set to a value. Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/org-service/execute-multiple-reque>

**NEW QUESTION 28**



- (Exam Topic 4)

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

- A. Create an Azure SQL Database service in the same tenant as the Dynamics 365 Sales environment.
- B. Enable auditing entities that must be replicated to Azure SQL database.
- C. Enable change tracking for all entities that must be replicated to Azure SQL Database.
- D. Set up server-based integration.
- E. Create an export profile that specifies all the entities that must be replicated.

**Answer:** ACE

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/power-platform/admin/replicate-data-microsoft-azure-sql-database>

#### NEW QUESTION 29

- (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 33

- (Exam Topic 4)

A multinational company requires that all phone numbers be standardized as country code + area code + phone number.

The application design team decides that a custom PowerApps component framework (PCF) control should be used to prompt users for an area code and correctly format the phone number.

You need to get the list of valid area codes when a contact record is opened and before the user enters a new phone number.

In which function should you call `webAPI.retrieveMultipleRecords`?

- A. `notifyOutputChanged`
- B. `init`
- C. `getOutputs`
- D. `updateView`

**Answer:** D

**Explanation:**

The updateView method will be called when any value in the property bag has changed. This includes field values, data-sets, global values such as container height and width, offline status, component metadata values such as label, visible, etc.  
Set the value of the field component to the raw value from the configured field. Note: webAPI.retrieveMultipleRecords retrieves a collection of entity records.  
Reference:  
<https://docs.microsoft.com/en-us/powerapps/developer/component-framework/reference/control/updateview>

**NEW QUESTION 36**

- (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 41**

- (Exam Topic 4)  
A client requires that the system send an email from a button on their customer contact form. You need to call the action from JavaScript.  
Which two functions achieve this result? Each correct presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Xrm.WebApi.online.createRecord()
- B. Xrm.WebApi.online.updateRecord()
- C. Xrm.WebApi.online.execute()
- D. Xrm.WebApi.online.executeMultiple()

**Answer:** C

**Explanation:**

You can execute action using Xrm.WebApi.online.execute in Dynamics 365 CRM V9.0. Reference:  
<https://carldesouza.com/calling-a-dynamics-365-action-from-javascript-using-xrm-webapi-online-execute/>

**NEW QUESTION 46**

- (Exam Topic 4)  
You are developing a Web API for a company.  
You need to implement the appropriate operations to meet the company's requirements. What should you implement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Requirement	Operation
Implement operations that do not have side effects and may support further composition	<div><div></div><div>Functions</div><div>Actions</div><div>Entities</div></div>
Implement operations that allow side effects, such as data modification	<div><div></div><div>Functions</div><div>Actions</div><div>Entities</div></div>
Implement keyless named structured types that consist of a set of properties	<div><div></div><div>Complex types</div><div>Entity types</div><div>Enumeration types</div></div>

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Functions

Box 2: Actions

Box 3: Complex types

Complex types are keyless named structured types consisting of a set of properties. Complex types are commonly used as property values in model entities, or as parameters or return values for operations.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/webapi/web-api-types-operations#>

**NEW QUESTION 47**

- (Exam Topic 4)

An organization implements Dynamics 365 Sales.

You need to trigger a business rule when the main form is saved. What should you do?

A. Write a business rule to trigger on a change of ModifiedOn field.

B. Set the scope of the business rule to one specific form where business rule triggers.

C. Set the scope of the business rule to All Forms.

D. Set the scope of the business rule to Entity.

**Answer:** D

**Explanation:**

Set scope of business rule to "Entity" instead of "All Form". This will trigger it on server side. Reference:

[https://docs.microsoft.com/en-us/previous-versions/dynamicscrm-2016/developers-guide/dn481574\(v=crm.8\)](https://docs.microsoft.com/en-us/previous-versions/dynamicscrm-2016/developers-guide/dn481574(v=crm.8))

**NEW QUESTION 50**

- (Exam Topic 4)

A company implements Dynamics 365 Customer Service. The company deploys synchronous plug-ins for the PreOperation and PostOperation stages on create and for the PostOperation stage on update for processing different case type.

Users experience errors when updating cases. The plug-in trace log files show that the PosOperation plug-in update of case times out after two minutes.

You perform basic testing and discover that this plug-in is triggered on every update of a case. You examine the code and discover that the plug-in retrieves all columns for the updated case record performing its work.

You need to reduce the number of errors. You need to achieve this goal with the test amount of changes. Solution: In the Plug-in Registration tool, update the plug-in step and increase the Execution Order. Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

**NEW QUESTION 53**

- (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 = ☐  
};
```

<input type="checkbox"/>
true
false

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

<input type="checkbox"/>
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 57

- (Exam Topic 4)

A company is creating a new system based on Common Data Service. You need to select the features that meet the company's requirements. Which options should you use? To answer, drag the appropriate options to the correct requirements. Each option 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.

Options

connection

one-to-many relationship

many-to-many relationship

self-referential relationship

Answer Area

Requirement	Option
Visualize records as a hierarchy in a model-driven app.	Option
Associate a record with other records in multiple entities.	Option
Records in one entity must be able to reference only a single record in another entity.	Option
Any record in one entity must be able to be referenced by any record in another entity.	Option

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: self-referential relationship Box 2: connection

There are other less formal kinds of relationships between records that are called connections. For example, it may be useful to know if two contacts are married, or perhaps they are friends outside of work, or perhaps a contact used to work for another account. Most businesses won't generate reports using this kind of information or require that it is entered, so it's probably not worthwhile to create entity relationships.

Box 3: one-to-many relationship Box 4: many-to-many relationship Reference:  
<https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/create-edit-entity-relationships>

NEW QUESTION 62



- (Exam Topic 4)

A travel company has a Common Data Service (CDS) environment. The company requires the following:

- > Custom entities that track which countries/regions their clients have traveled.
- > The dates their clients traveled to these countries/regions.

You need to create the entities and relationships to meet the requirements. Which three actions should 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.  
NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct order you select.



Actions	Answer Area
On the main form for ContactCountry, add the lookup fields for the Contact and Country, and a date field for the visit date.	
Create a 1:N relationship from Contact to the Country entity.	
Create a N:N relationship from Contact to the Country entity.	
Create a 1:N relationship from ContactCountry intersect entity and Country.	
Create the Country entity.	
On the main form for ContactCountry, add a sub grid to view the country information.	
Create an intersect entity named ContactCountry and create two N:1 relationships to Contact and Country.	
Create an intersect entity named ContactCountry and create two 1:N relationships to Contact and Country.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

You can configure a sub-grid on a form to display a list of records or a chart. Reference:  
<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/sub-grid-properties>

NEW QUESTION 64

- (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 66

- (Exam Topic 4)

A client uses a model-driven app that is deployed by using a managed solution in the production environment. The app contains only entities and UI components and has no custom code or extensions to the platform.

The client needs an exact copy of the app with a different name in the production environment. You need to recreate this app in production without disrupting the end users.

What should you do?

- A. Select the original model-driven app, select Edit, and then select Save As.
- B. Create a new model-driven app
- C. Select the Use existing solution to create the App check box, and then select the solution that contains the original app.
- D. Select the managed solution and select Clone.
- E. Create a new model-driven app, manually add each component, and then recreate its original functions.
- F. Add the original app to a solution, export it as unmanaged, import it into a test environment and rename it, and then deploy it back into production.

**Answer:** B

#### Explanation:

The option Use existing solution allow users to select a specific solution for this app. Users can create a whole new design from scratch by not checking check box of use existing solution.

Reference:

<https://www.inogic.com/blog/2019/02/create-model-driven-app-cds-environment/>

#### NEW QUESTION 67

- (Exam Topic 4)

A company uses five different shipping companies to deliver products to customers. Each shipping company has a separate service that quotes delivery fees for destination addresses.

You need to design a custom connector that retrieves the shipping fees from all the shipping companies by using their APIs.

Which three elements should you define for the custom connector? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Authentication model
- B. Address parameter
- C. OpenAPI definition
- D. Fee parameter
- E. Fee reference

**Answer:** ABC

#### Explanation:

C: You can create a custom connector using a OpenAPI definition file or a URL to OpenAPI definition. B: On the Security page you get to choose how to authenticate to the API.

← Connector Name Trefle

1. General > **2. Security** > 3. Definition > 4. Test ✓ Create connector ✕ Cancel

### Security

Choose the authentication type and fill in the required fields to set the security for your custom connector. [Learn more](#)

#### Authentication type

Choose what authentication is implemented by your API \*

API Key

[Edit](#)

#### API Key

Users will be required to provide the API Key when creating a connection

Parameter label \*

API Key

Parameter name \*

API-nyckel

Parameter location \*

Header

[Edit](#)

← General Definition →

A: If you were to create a Custom Connector from scratch, then you would have to study the API you have chosen and type in the URL manually here.

### Request

[+ Import from sample](#)

**Verb \***

The verb describes the operations available on a single path.

**GET**

**URL \***

This is the request URL.

`https://trefle.io/api/plants/{id}`

**Path**

Path is used together with Path Templating, where the parameter value is actually part of the operation's URL.

`* id ...`

**Query**

Query parameters are appended to the URL. For example, in `/items?id=####`, the query parameter is `id`.

`* token ...`

**Headers**

These are custom headers that are part of the request.

**Body**

The body is the payload that's appended to the HTTP request. There can only be one body parameter.

Reference:

<https://carinaclaesson.com/2019/09/06/setting-up-a-custom-connector-from-an-openapi-file-and-utilizing-it-in-p>

**NEW QUESTION 72**

- (Exam Topic 4)

You are developing an app for a sales team to record contact details in their Common Data Service (CDS) database. The app must handle loss of network and save the data to CDS when reconnected.

The main screen of the app has a form to collect contact data and a button. The OnSelect property for the button has the following expression:

```
1. If (  
2. Connection.Connected,  
3. Path(  
4. Contacts,  
5. Defaults(Contacts),  
6. {  
7. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text  
8. }  
9. );  
10. Navigate(ConfirmationScreen,ScreenTransition.Fade)  
11. ,  
12. ClearCollect(  
13. LocalRecord,  
14. {  
15. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text  
16. }  
17. );  
18. SaveData(LocalRecord, "LocalRecord");  
19. Navigate(PendingScreen,ScreenTransition.Fade)  
20. )
```

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
The expression saves the data to CDS when reconnecting after losing network connection.	<input type="radio"/>	<input type="radio"/>
The collection contains all contacts not saved to CDS.	<input type="radio"/>	<input type="radio"/>
The expression updates existing contacts in CDS.	<input type="radio"/>	<input type="radio"/>
The expression handles loss of connection to CDS.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes  
LoadData and SaveData combine to form a simple mechanism to store small amounts of data on a local device. By using these functions, you can add simple offline capabilities to your app.  
Box 2: No  
Box 3: No  
Box 4: Yes Reference:  
<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/offline-apps>

**NEW QUESTION 75**

- (Exam Topic 4)

A company has a development environment and a production environment. The production environment has several third-party managed and unmanaged solutions that made changes to the Contact main form. You create a new solution in the development environment. You add the Contact entity and the Contact main form to the solution. You create a custom field on the Contact entity. What happens when you perform these actions and import the solution into the production environment? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.



Action	Result
Add the field to the middle of an existing section in the Contact main form.	<div><div></div><div>The field is inserted at the start of the existing section. The field is inserted in the middle of the existing section. The field is appended to the end of the existing section. The field is added in a new section.</div></div>
Create a new section in the Contact main form and add the field to the new section.	<div><div></div><div>The field is inserted at the start of the existing section. The field is inserted in the middle of the existing section. The field is appended to the end of the existing section. The field is added in a new section.</div></div>
Create a new form and add the field to the middle of an existing section.	<div><div></div><div>The field is inserted at the start of the existing section. The field is inserted in the middle of the existing section. The field is appended to the end of the existing section. The field is added in a new section.</div></div>

- A. Mastered  
B. Not Mastered

Answer: A

**Explanation:**

Box 1: The field is appended to the end of the existing section.

When you add new elements to a form that is to be merged, we recommend that you include your new elements within new container elements (tabs or sections). Additions to any container will be appended to the end of the container. For example, fields added to a section will be positioned at the end of the section.

Box 2: The field is added in a new section.

Box 3: The field is inserted in the middle of the existing section Reference:

[https://docs.microsoft.com/en-us/previous-versions/dynamicscrm-2016/developers-guide/gg309329\(v=crm.8\)](https://docs.microsoft.com/en-us/previous-versions/dynamicscrm-2016/developers-guide/gg309329(v=crm.8))

**NEW QUESTION 79**

- (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 webhook in the Common Data Service 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: B

**Explanation:**

Instead use asynchronous communication. D18912E1457D5D1DDCBD40AB3BF70D5D

**NEW QUESTION 82**

- (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.	
Create a new model-driven app. Add the project entity, and select the Finance form.	
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 87**

- (Exam Topic 4)

A financial institution that has a Dynamics 365 Customer Engagement environment requires that the account balance field from the account entity be visible to specific users only.

You need to set up the field security for the account balance field.

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

NOTE: Each correct selection is worth one point.

- A. Create a field security profile.
- B. Set the field to Read-Only and then publish the entity.
- C. Create a security role and add the specific users to the role.
- D. Enable field security and then publish the entity.
- E. Set the field permission Allow Read to Yes and add the users to the members section.

**Answer:** ADE

**Explanation:**

To implement field-level security, a system administrator performs the following tasks.

- > Enable field security on one or more fields for a given entity.
- > Associate one more existing security profiles, or create one or more new security profiles to grant the appropriate access to specific users or teams.

A security profile determines the following:

- > Permissions to the secure fields
- > Users and Teams

A security profile can be configured to grant user or team members the following permissions at the field level:

- > Read. Read-only access to the field's data.
- > Create. Users or teams in this profile can add data to this field when creating a record.
- > Update. Users or teams in this profile can update the field's data after it has been created. Reference:

<https://docs.microsoft.com/en-us/power-platform/admin/field-level-security>

**NEW QUESTION 90**

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