



## Microsoft

### Exam Questions MS-600

Building Applications and Solutions with Microsoft 365 Core Services

### NEW QUESTION 1

- (Exam Topic 1)

Which type of authentication flow should you recommend for the planned integration with Office 365?

- A. device code
- B. implicit grant
- C. authorization code
- D. client credentials

**Answer: C**

#### Explanation:

To use Microsoft Graph to read and write resources on behalf of a user, your app must get an access token from the Microsoft identity platform and attach the token to requests that it sends to Microsoft Graph.

One common flow used by native and mobile apps and also by some Web apps is the OAuth 2.0 authorization code grant flow.

Scenario: Email the generated invoices to customers on behalf of the current signed-in user. Any emails generated by the system will contain the invoiced.

Use Azure AD to manage identities, authentication, and authorization. Reference: <https://docs.microsoft.com/en-us/graph/auth-v2-user>

### NEW QUESTION 2

- (Exam Topic 1)

You need to complete the MSAL.js code for SSO. Which code segment should you insert at line 06?

- A. `storeAuthStateInCookie: false`
- B. `storeAuthStateInCookie: true`
- C. `cacheLocation: 'localStorage'`
- D. `cacheLocation: 'sessionStorage'`

**Answer: C**

#### Explanation:

Scenario: Implement single sign-on (SSO) and minimize login prompts across browser tabs.

When your application is open in multiple tabs and you first sign in the user on one tab, the user is also signed in on the other tabs without being prompted.

MSAL.js caches the ID token for the user in the browser localStorage and will sign the user in to the application on the other open tabs.

By default, MSAL.js uses sessionStorage which does not allow the session to be shared between tabs. To get SSO between tabs, make sure to set the cacheLocation in MSAL.js to localStorage.

Reference: <https://docs.microsoft.com/bs-latn-ba/Azure/active-directory/develop/msal-js-ss0>

### NEW QUESTION 3

- (Exam Topic 1)

How can you validate that the JSON notification message is sent from the Microsoft Graph service?

- A. The ClientState must match the value provided when subscribing.
- B. The user\_guid must map to a user ID in the Azure AD tenant of the customer.
- C. The tenant ID must match the tenant ID of the customer's Office 365 tenant.
- D. The subscription ID must match the Azure subscription used by ADatum.

**Answer: A**

#### Explanation:

clientState specifies the value of the clientState property sent by the service in each notification. The maximum length is 128 characters. The client can check that the notification came from the service by comparing the value of the clientState property sent with the subscription with the value of the clientState property received with each notification.

Note: A subscription allows a client app to receive notifications about changes to data in Microsoft Graph. Reference: <https://docs.microsoft.com/en-us/graph/api/resources/subscription>

### NEW QUESTION 4

- (Exam Topic 1)

You need to protect the backend web service to meet the technical requirements.

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

## Actions

Set the App ID URI for the backend web service application registration

Register an application in Azure AD for the backend web service

Define the scopes in the E-invoicing application registration

Register an application in Azure AD for E-invoicing. Grant admin consent to the E-invoicing application registration to the API scopes of the backend web service application registration

Define the scopes in the backend web service application registration

## Answer Area



- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Here is a quick overview of the steps:

Step 1: Register an application in Azure AD for the backend web service Register an application (backend-app) in Azure AD to represent the API. Step 2: Set the App ID URI for the backend service application registration

When the application is created (step 1) select Expose an API and click on Save and continue to create an Application ID URI.

Step 3: Define the scopes in the backend web service application registration

In the Add a scope page, create a new scope supported by the API. (e.g., Read) then click on Add scope to create the scope. Repeat this step to add all scopes supported by your API.

Step 4: Register an application in Azure AD for E-invoicing.

Step 4.1 Register another application in Azure AD to represent a client application

Step 4.2 Now that you have registered two applications to represent the API and the Developer Console, you need to grant permissions to allow the client-app to call the backend-app.

Scenario:

Secure access to the backend web service by using Azure AD

E- invoicing will have internal logic that will dynamically identify whether the user should be allowed to call the backend API.

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad>

### NEW QUESTION 5

- (Exam Topic 2)

What should you add to a SharePoint Framework (SPFx) solution to ensure that the solution can be used as a Microsoft Teams tab?

- A. the TeamsTab value to the componentType property in the manifest file
- B. a manifest file to the Teams folder in the solution
- C. the TeamsTab value to the supportedHosts property in the manifest file
- D. a manifest file to the webparts folder in the solution

**Answer:** D

### Explanation:

You need to update the web part manifest to make it available for Microsoft Teams. Locate the manifest json file for the web part you want to make available to Teams and modify the supportedHosts properties to include "TeamsTab".

Reference:

<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/web-parts/get-started/using-web-part-as-msteams-tab>

### NEW QUESTION 6

- (Exam Topic 2)

You have a custom Microsoft Word add-in that was written by using Microsoft Visual Studio Code. A user reports that there is an issue with the add-in.

You need to debug the add-in for Word Online.

What should you do before you begin debugging in Visual Studio Code?

- A. Disable script debugging in your web browser
- B. Sideload the add-in
- C. Publish the manifest to the Microsoft SharePoint app catalog
- D. Add the manifest path to the trusted catalogs

**Answer:** C

**Explanation:**

Debug your add-in from Excel or Word on the web  
 To debug your add-in by using Office on the web (see step 3):  
 \* 12. Deploy your add-in to a server that supports SSL.  
 \* 13. In your add-in manifest file, update the SourceLocation element value to include an absolute, rather than a relative, URI.  
 \* 14. Upload the manifest to the Office Add-ins library in the app catalog on SharePoint.  
 \* 15. Launch Excel or Word on the web from the app launcher in Office 365, and open a new document.  
 \* 16. On the Insert tab, choose My Add-ins or Office Add-ins to insert your add-in and test it in the app.  
 \* 17. Use your favorite browser tool debugger to debug your add-in.  
 Reference: <https://docs.microsoft.com/en-us/office/dev/add-ins/testing/debug-add-ins-in-office-online>

**NEW QUESTION 7**

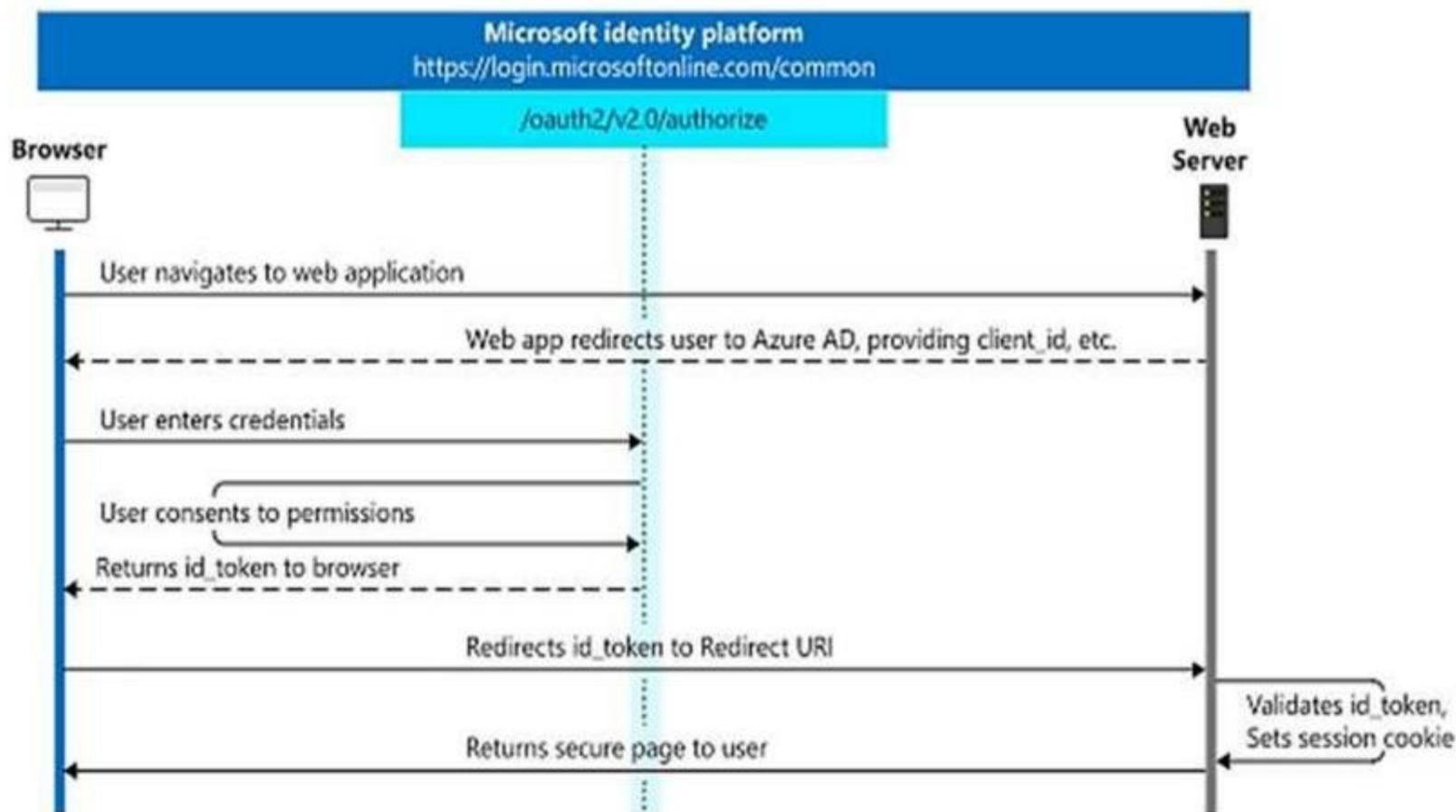
- (Exam Topic 2)  
 You need to develop a server-based web app that will be registered with the Microsoft identity platform. The solution must ensure that the app can perform operations on behalf of the user?  
 Which type of authorization flow should you use?

- A. authorization code
- B. refresh token
- C. resource owner password
- D. device code

**Answer: A**

**Explanation:**

In web server apps, the sign-in authentication flow takes these high-level steps:



You can ensure the user's identity by validating the ID token with a public signing key that is received from the Microsoft identity platform endpoint. A session cookie is set, which can be used to identify the user on subsequent page requests.  
 In addition to simple sign-in, a web server app might need to access another web service, such as a REST API. In this case, the web server app engages in a combined OpenID Connect and OAuth 2.0 flow, by using the OAuth 2.0 authorization code flow.  
 Reference: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-app-types>

**NEW QUESTION 8**

- (Exam Topic 2)  
 You are developing a Microsoft Office Add-in for Microsoft Word. Which Office UI element can contain commands from the add-in?

- A. dialog boxes
- B. the Quick Access Toolbar (QAT)
- C. context menus
- D. task panes

**Answer: A**

**NEW QUESTION 9**

- (Exam Topic 2)  
 What is the default permission scope when you request an access token by using MSGraphClient?

- A. User.Read
- B. People.Read.All
- C. People.Read
- D. User.Read.All

**Answer:** D

**Explanation:**

By default, the service principal has no explicit permissions granted to access the Microsoft Graph. However, if you request an access token for the Microsoft Graph, you get a token with the user\_impersonation permission scope that can be used for reading information about the users (that is, User.Read.All). Reference: <https://docs.microsoft.com/en-us/sharepoint/dev/spfx/use-msgraph>

**NEW QUESTION 10**

- (Exam Topic 2)

You are building a single-page application (SPA) that will have the following parameters:

- App Id: DBA22F72-64PA4C44-AA2C-FAA0DA5A471B
- Tenant Id: DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC
- AppName: Contoso.Spa

You have a line-of-business API for invoicing that is secured by using the Microsoft identity platform. The API has the following parameters:

- \* App Id: 8/9A43D7-1794-47A0-AB2B-440B63FEC248
- \* Tenant Id: DC04SC4D S881-43C7-97AB 3C5A1ADB8DBC
- \* AppName: Contoso.Invoicing

Contoso.Invoicing declares the following custom scopes:

- \* Invoices-Read
- \* Invoices. Read Write

Contoso.Spa needs to call Contoso.Invoicing to create new invoices.

Which code should you use in Contoso.Spa to obtain an access token for Contoso.Invoicing? To answer, select the appropriate options in the answer area.

NOTE: Each correct select is worth one point.

**Answer Area**

```
const app = new UserAgentApplication({
  auth: {
    clientid: 'DBA22F72-642A-4C44-AA2C-FAA0DA5A471B',
    clientid: '879A43D7-1794-47A0-AB2B-440B63FEC248',
    clientid: 'DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC',
    authority: 'https://login.microsoftonline.com/DBA22F72-642A-4C44-AA2C-FAA0DA5A471B/',
    authority: 'https://login.microsoftonline.com/879A43D7-1794-47A0-AB2B-440B63FEC248/',
    authority: 'https://login.microsoftonline.com/DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC/',
  },
  system: {
    logger: new Logger(this.logger)
  },
  cache: {cacheLocation: "localStorage"}
});

const response = await app.acquireTokenSilent({
  scopes: ['api://879A43D7-1794-47A0-AB2B-440B63FEC248/Invoices.Read'],
  scopes: ['api://879A43D7-1794-47A0-AB2B-440B63FEC248/Invoices.ReadWrite'],
  scopes: ['api://DBA22F72-642A-4C44-AA2C-FAA0DA5A471B/Invoices.ReadWrite'],
  scopes: ['api://DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC/Invoices.Read'],
  scopes: ['Invoices.Read'],
  scopes: ['Invoices.ReadWrite']
});
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

```
const app = new UserAgentApplication({
  auth: {
    clientId: 'DBA22F72-642A-4C44-AA2C-FAA0DA5A471B',
    clientId: '879A43D7-1794-47A0-AB2B-440B63FEC248',
    clientId: 'DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC',
    authority: 'https://login.microsoftonline.com/DBA22F72-642A-4C44-AA2C-FAA0DA5A471B/',
    authority: 'https://login.microsoftonline.com/879A43D7-1794-47A0-AB2B-440B63FEC248/',
    authority: 'https://login.microsoftonline.com/DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC/'
  },
  system: {
    logger: new Logger(this.logger)
  },
  cache: {cacheLocation: "localStorage"}
});

const response = await app.acquireTokenSilent({
  scopes: ['api://879A43D7-1794-47A0-AB2B-440B63FEC248/Invoices.Read']
  scopes: ['api://879A43D7-1794-47A0-AB2B-440B63FEC248/Invoices.ReadWrite']
  scopes: ['api://DBA22F72-642A-4C44-AA2C-FAA0DA5A471B/Invoices.ReadWrite']
  scopes: ['api://DC045C4D-5881-43C7-97AB-3C5A1ADB8DBC/Invoices.Read']
  scopes: ['Invoices.Read']
  scopes: ['Invoices.ReadWrite']
});
```

**NEW QUESTION 10**

- (Exam Topic 2)

You have an API that is secured by using Azure Active Directory (Azure AD). You are designing a SharePoint Framework (SPFx) solution. Which object should you use to connect to the API from the solution?

- A. SPHttpClient
- B. HttpClient
- C. AadHttpClient

**Answer: C**

**Explanation:**

By using the AadHttpClient, you can easily connect to APIs secured by using Azure AD without having to implement the OAuth flow yourself. Reference: <https://docs.microsoft.com/en-us/sharepoint/dev/spfx/use-aadhttpclient>

**NEW QUESTION 15**

- (Exam Topic 2)

You have an application named App1 that is used to administer an Azure Active Directory (Azure AD) tenant. When administrators install App1, they are prompted for admin consent.

Which application permission can cause the administrators to be prompted for consent?

- A. RoleManagement
- B. Read . Directory
- C. Device.Command
- D. Device.Read
- E. Calendars.ReadWrite

**Answer: A**

**NEW QUESTION 19**

- (Exam Topic 2)

You need to develop a client-side web app that will be registered with the Microsoft identity platform. Which type of authorization flow should you use?

- A. authorization code grant
- B. device code grant
- C. implicit grant
- D. client credentials grant

**Answer: A**

**NEW QUESTION 21**

- (Exam Topic 2)

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
A Microsoft Office Add-in manifest must be stored in Azure Directory (Azure AD).	<input type="radio"/>	<input type="radio"/>
A Microsoft Office Add-in manifest must be in the JSON format.	<input type="radio"/>	<input type="radio"/>
A Microsoft Office Add-in manifest must contain a URI that points to the location that hosts the add-in.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

Box 2: No

The manifest is in XML format.

Box 3: Yes

SourceLocation is required and specifies the source file location(s) for your Office Add-in as a URL between 1 and 2018 characters long. The source location must be an HTTPS address, not a file path.

References: <https://docs.microsoft.com/en-us/office/dev/add-ins/develop/add-in-manifests> <https://docs.microsoft.com/en-us/office/dev/add-ins/reference/manifest/sourcelocation>

**NEW QUESTION 23**

- (Exam Topic 2)

HOTSPOT

You are developing an interactive invoicing application that will be used by end users. The application will have the following features:

- > Save invoices generated by a user to the user's Microsoft OneDrive.
- > Email daily automated reminders.

You need to identify which permissions to grant for the application features. The solution must use the principle of least privilege.

Which permission should you grant for each feature? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Save invoices

Administrator

Application

Delegated

Super User

Send automated reminder's

Administrator

Application

Delegated

Super User

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Microsoft identity platform supports two types of permissions: delegated permissions and application permissions.

Box 1: Delegated

> Delegated permissions are used by apps that have a signed-in user present. For these apps, either the user or an administrator consents to the permissions that the app requests, and the app is delegated permission to act as the signed-in user when making calls to the target resource.

Box 2: Application

> Application permissions are used by apps that run without a signed-in user present; for example, apps that run as background services or daemons.

Application permissions can only be consented by an administrator.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent>

**NEW QUESTION 28**

- (Exam Topic 2)

You are developing a front end web app.

You want to display the current username as part of the user interface.

You need to retrieve the current username from Microsoft Graph by using a REST request. The solution must minimize the amount of information returned. To which URI should you send the request?

[https://graph.microsoft.com/v1.0/users/john@contoso.com/people?\\$select=displayName](https://graph.microsoft.com/v1.0/users/john@contoso.com/people?$select=displayName)

[https://graph.microsoft.com/v1.0/me?\\$search=displayName](https://graph.microsoft.com/v1.0/me?$search=displayName)

<https://graph.microsoft.com/v1.0/me>

[https://graph.microsoft.com/v1.0/me?\\$select=displayName](https://graph.microsoft.com/v1.0/me?$select=displayName)

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

**Answer:** A

### NEW QUESTION 30

- (Exam Topic 2)

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 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 developing a new application named App1 that uses the Microsoft identity platform to authenticate to Azure Active Directory (Azure AD).

Currently, App1 can read user profile information. You need to allow App1 to read the user's calendar.

Solution: In the code of App1, dynamically request the Calendar.Read permission from the Microsoft Graph API.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

For your app to access data in Microsoft Graph, the user or administrator must grant it the correct permissions via a consent process.

Application permissions can only be consented by an administrator.

References: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent> <https://docs.microsoft.com/en-us/graph/permissions-reference>

### NEW QUESTION 32

- (Exam Topic 2)

This question requires that you evaluate the bold text to determine if it is correct.

You can use a Command Set extension to develop a breadcrumb element that will appear on every Microsoft SharePoint page.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. an Application Customizer
- C. a Field Customizer
- D. a web part

**Answer:** B

#### Explanation:

Application Customizers provide access to well-known locations on SharePoint pages that you can modify based on your business and functional requirements. For example, you can create dynamic header and footer experiences that render across all the pages in SharePoint Online.

Reference:

<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/extensions/get-started/using-page-placeholder-with-extens>

### NEW QUESTION 37

- (Exam Topic 2)

You have an application that uses the Microsoft Graph API.

You need to configure the application to retrieve the groups to which the current signed-in user belongs. The results must contain the extended priorities of the groups.

Which URI should you use?

- A. <https://graph.microsoft.com/v1.0/me/getMemberObjects>
- B. <https://graph.microsoft.com/v1.0/me/getMemberGroups>
- C. <https://graph.microsoft.com/v1.0/me/memberOf>
- D. <https://graph.microsoft.com/v1.0/me/checkMemberGroups>

**Answer:** B

#### Explanation:

Get member groups returns all the groups that the specified user, group, or directory object is a member of. This function is transitive.

Reference: <https://docs.microsoft.com/en-us/graph/api/directoryobject-getmembergroups>

**NEW QUESTION 39**

- (Exam Topic 2)

You are building a server-based web app that will use OAuth2 and will be registered with the Microsoft identity platform.

Which two values does the app require to obtain tokens from the Azure Active Directory (Azure AD) authorization endpoint? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

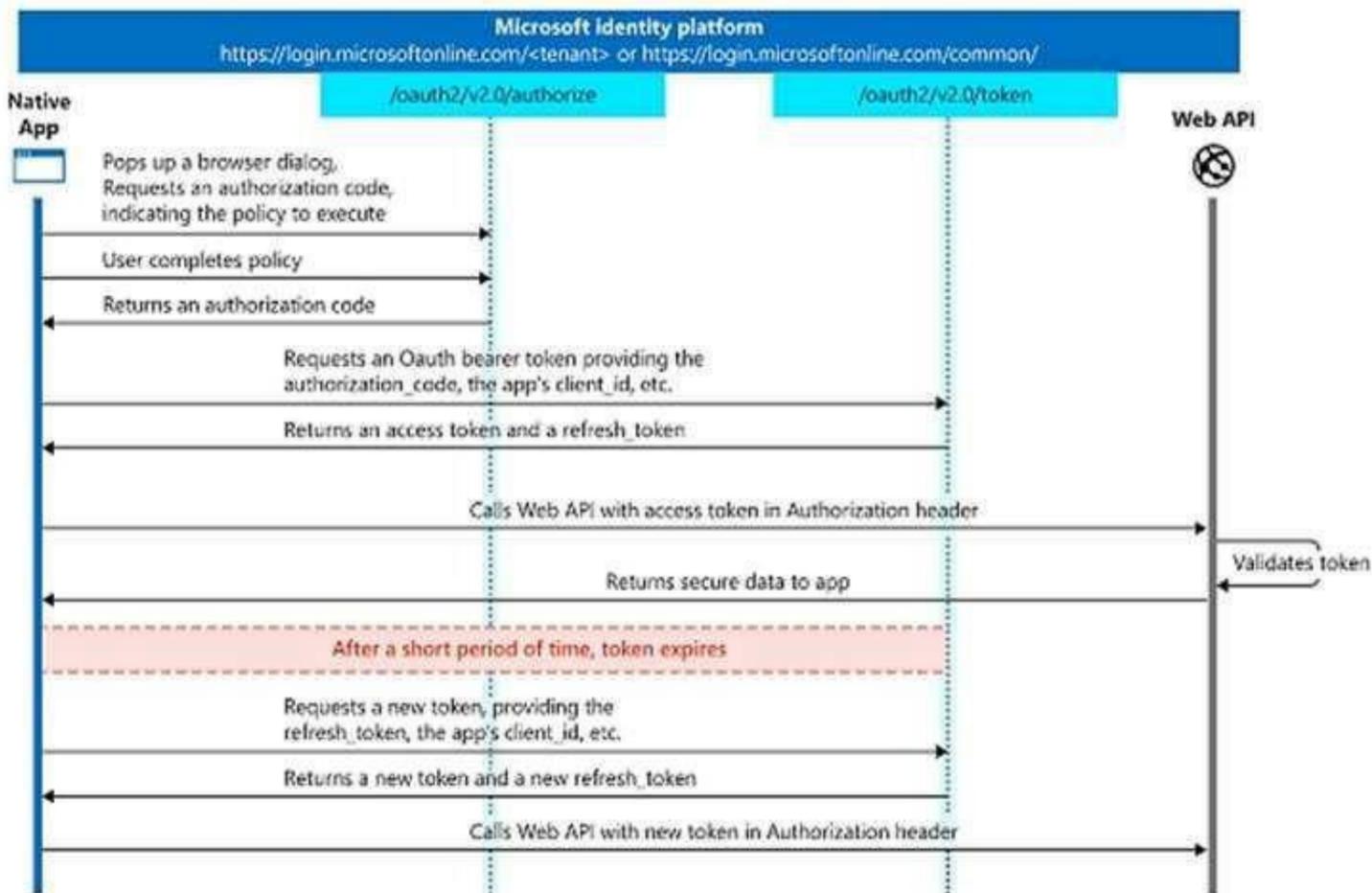
- A. the tenant ID
- B. the context token
- C. the application ID
- D. the application secret
- E. the authorization code

**Answer: CE**

**Explanation:**

C: The required client\_id is the Application (client) ID that the Azure portal – App registrations experience assigned to your app.

E: The authorization code flow begins with the client directing the user to the /authorize endpoint.



Reference: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-oauth2-auth-code-flow>

**NEW QUESTION 40**

- (Exam Topic 2)

This question requires that you evaluate the underlined BOLD text to determine if it is correct.

You can use App Studio for Microsoft Teams to develop all the components of a bot application.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. configure a Teams tab in an application
- C. develop a SharePoint Framework (SPFx) web part
- D. provision a bot by using the Bot Framework

**Answer: B**

**Explanation:**

Tabs provide a place for you to display for rich interactive web content. You can define both personal and team tabs.

There can be only 1 team tab per app, but up to 16 personal tabs per app.

Reference: <https://blog.thoughtstuff.co.uk/2019/04/what-is-app-studio-in-microsoft-teams-and-why-do-i-care/>

**NEW QUESTION 41**

- (Exam Topic 2)

You have a SharePoint Framework (SPFx) web part that displays the weather. Users can set the city within the web part. Which component is invoked to provide the users with the ability to configure the settings for the web part?

- A. a custom control
- B. the property pane
- C. the Application Customizer
- D. a library component

Answer: B

#### NEW QUESTION 42

- (Exam Topic 2)

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 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 developing a new application named App1 that uses the Microsoft identity platform to authenticate to Azure Active Directory (Azure AD).

Currently, App1 can read user profile information. You need to allow App1 to read the user's calendar.

Solution: From the Azure portal, add the Microsoft Graph API and the Calendar.Read permission by using the API permission list of App1. Grant tenant admin consent.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

#### Explanation:

Microsoft Graph Calendars.Read allows the app to read events in user calendars.

For your app to access data in Microsoft Graph, the user or administrator must grant it the correct permissions via a consent process.

Application permissions are used by apps that run without a signed-in user present; for example, apps that run as background services or daemons. Application permissions can only be consented by an administrator.

References: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent> <https://docs.microsoft.com/en-us/graph/permissions-reference>

#### NEW QUESTION 45

- (Exam Topic 2)

You are developing a Microsoft Teams application for a support staff.

Within a conversation between the support staff, you want the staff to look up support ticket IDs from a list without opening the ticketing system.

Which feature should the application include?

- A. a bot
- B. a connector
- C. a messaging extension
- D. a tab

Answer: C

#### Explanation:

Messaging extensions allow users to interact with your web service through buttons and forms in the Microsoft Teams client. They can search, or initiate actions, in an external system from the compose message area, the command box, or directly from a message. You can then send the results of that interaction back to the Microsoft Teams client, typically in the form of a richly formatted card.

Reference:

<https://docs.microsoft.com/en-us/microsoftteams/platform/messaging-extensions/what-are-messaging-extension>

#### NEW QUESTION 46

- (Exam Topic 2)

You are developing an application that will track changes to the UserPrincipalName attribute of Microsoft 365 accounts.

You need to use a REST request to retrieve the information by using Microsoft Graph. The solution must minimize the amount of data retrieved.

What should you do?

- A. Use GET <https://graph.microsoft.com/v1.0/users/delta> for the first call
- B. Use the state token in subsequent calls.
- C. Use GET [https://graph.microsoft.com/v1.0/users/delta?\\$select=UserPrincipalName](https://graph.microsoft.com/v1.0/users/delta?$select=UserPrincipalName) for the first call
- D. Use the state token in subsequent calls.
- E. Use GET [https://graph.microsoft.com/v1.0/users\\$select=UserPrincipalName](https://graph.microsoft.com/v1.0/users$select=UserPrincipalName) for the calls and track the changes.
- F. Use GET <https://graph.microsoft.com/v1.0/users> for the calls and track the changes.

Answer: B

#### Explanation:

Use delta query to track changes in a resource collection

The typical call pattern is as follows: application begins by calling a GET request with the delta function on the desired resource.

➤ Microsoft

➤ The Graph sends a response containing the requested resource and a state token.

Example: Selecting three properties

The next example shows the initial request selecting three properties for change tracking, with default response behavior.

Note: Delta query enables applications to discover newly created, updated, or deleted entities without performing a full read of the target resource with every request.

Reference: <https://docs.microsoft.com/en-us/graph/api/user-delta>

#### NEW QUESTION 50

- (Exam Topic 2)

You are developing a new Microsoft Office Add-in to integrate a corporate invoicing system and Microsoft Excel.

You need to add a new button to the Office ribbon. What should you add to the add-in?

- A. a task pane

- B. a dialog
- C. a custom function
- D. a command

**Answer:** D

**Explanation:**

Add commands to a custom group

- \* 1. In the Customize the Ribbon window under the Customize the Ribbon list, click the custom group that you want to add a command to.
- \* 2. In the Choose commands from list, click the list you want to add commands from, for example, Popular Commands or All Commands.



- \* 3. Click a command in the list that you choose.
- \* 4. Click Add.
- \* 5. To see and save your changes, click OK. Reference:  
<https://support.office.com/en-us/article/customize-the-ribbon-in-office-00f24ca7-6021-48d3-9514-a31a460ecb3>

**NEW QUESTION 54**

- (Exam Topic 2)

When developing a tab in Microsoft teams, personal, group, and shared tabs can all be implemented as configurable tabs.

Instructions: Review the underlined BOLD text, if it makes the statement correct, select " No change is needed if the statement is incorrect selct the answer choice that makes the statement correct.

- A. No change is needed.
- B. Share the same code
- C. Be used in a conversation
- D. Have a configuration panel

**Answer:** A

**NEW QUESTION 59**

- (Exam Topic 2)

This question requires that you evaluate the underlined text to determine if it is correct.

Centralized deployments for Microsoft Office Add-ins require Office Online Server.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. Azure Active Directory (Azure AD)
- C. Azure AD Connect
- D. an Azure web app

**Answer:** A

**Explanation:**

Centralized deployment of add-ins requires that the users are using Office 365 ProPlus (and are signed into Office using their Organizational ID), and have Exchange Online and active Exchange Online mailboxes.

Reference: <https://docs.microsoft.com/en-us/office365/admin/manage/centralized-deployment-of-add-ins>

**NEW QUESTION 64**

- (Exam Topic 2)

You are developing an application that will use Microsoft Graph.

You attempt to retrieve a list of the groups in your organization by using a URI of <https://graph.microsoft.com/v1.0/groups> on behalf of the user.

The application fails. The diagnostic logs show the following information:

- \* An HTTP 403 Forbidden status code
- \* An Authorization\_RequestDenied error code
- \* The following error message: "Insufficient privileges to complete the operation."

You need to ensure that the application can retrieve the list of groups. The solution must use the principle of least privilege. Which two actions should you perform?

Each correct answer presents part of the solution.

NOTE; Each correct selection is worth one point.

- A. In the permission request for the application, request the Group
- B. Rea
- C. All permission.
- D. Grant tenant admin consent for the Group.Rea

- E. All permission.
- F. Configure the application to use application permissions.
- G. In the permission request for the application, request the Group.Readwrite.All permission.
- H. Readwrite.All permission.
- I. All permission.

Answer: AD

**NEW QUESTION 67**

- (Exam Topic 2)

You have an application that employees use to schedule vacations. The application sets an automatic reply and an out-of-office event in the employees' Microsoft 365 calendar.

Employees who access the application from a mobile device report that the application is slow to make changes.

You need to replace the application calls to use batched request. Automatic reply must be set only if an out-of-office event is set successfully.

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

**Answer Area**

DELETE  
GET  
HEAD  
PATCH  
POST  
PUT

https://graph.microsoft.com/v1.0/\$batch

These are the selections for the first missing value:  
application/json

```

"requests": [
  {
    "id": "1",
    "method": "DELETE",
    "url": "/me/event",
    "body": {
      "subject": "Vacation",
      "showAs": "oof",
      "start": {
        "dateTime": "2019-08-27T14:49:06.595Z",
        "timeZone": "UTC"
      }
    },
    "headers": {
      "Content-Type": "application/json"
    }
  },
  {
    "id": "2",
    "dependsOn": [
      "1"
    ],
    "url": "/me/mail",
    "method": "POST",
    "body": {
      "automaticRepliesSetting": {
        "status": "Scheduled",
        "scheduledStartTime": {
          "dateTime": "2020-03-20T18:00:00.0000000",
          "timeZone": "UTC"
        },
        "scheduledEndTime": {
          "dateTime": "2020-03-25T18:00:00.0000000",
          "timeZone": "UTC"
        }
      }
    },
    "headers": {
      "Content-Type": "application/json"
    }
  }
]
  
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```

DELETE
GET
HEAD
PATCH
POST
PUT
https://graph.microsoft.com/v1.0/$batch
There are the selections for the first missing value.
application/json

"requests": [
  {
    "id": "1",
    "method": "DELETE",
    "url": "/mc/event",
    "body": {
      "subject": "on vacation",
      "showAs": "off",
      "start": {
        "dateTime": "2019-08-27T14:49:06.5952",
        "timeZone": "UTC"
      }
    },
    "headers": {
      "Content-type": "application/json"
    }
  },
  {
    "id": "2",
    "dependsOn": [1],
    "url": "/me/mailFolders",
    "method": "POST",
    "body": {
      "automaticRepliesSetting": {
        "status": "Scheduled",
        "scheduledStartDateTime": {
          "dateTime": "2020-03-20T18:00:00.0000000",
          "timeZone": "UTC"
        },
        "scheduledEndDateTime": {
          "dateTime": "2020-03-28T18:00:00.0000000",
          "timeZone": "UTC"
        }
      }
    },
    "headers": {
      "Content-Type": "application/json"
    }
  }
]

```

**NEW QUESTION 68**

- (Exam Topic 2)

This question requires that you evaluate the underlined text to determine if it is correct- For a Microsoft Office Add-in, you set the icon in the Microsoft SharePoint app catalog.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed.
- B. a JSON manifest file
- C. the Office app catalog
- D. an XML manifest file

Answer: D

**NEW QUESTION 73**

- (Exam Topic 2)

For each of the following statements, select Yes if the statement is true. Otherwise, select NO. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Search-based messaging extensions can query a third-party service and show the information on a card.	<input type="radio"/>	<input type="radio"/>
Search-based messaging extensions can use the Bot Framework to interact with third-party applications.	<input type="radio"/>	<input type="radio"/>
Search-based messaging extensions can be used to display information on a tab.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Statements	Yes	No
Search-based messaging extensions can query a third-party service and show the information on a card.	<input type="radio"/>	<input checked="" type="radio"/>
Search-based messaging extensions can use the Bot Framework to interact with third-party applications.	<input type="radio"/>	<input checked="" type="radio"/>
Search-based messaging extensions can be used to display information on a tab.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 75**

- (Exam Topic 2)

You are developing a Microsoft Teams solution to host an existing webpage as a Teams tab. Which requirement must the page meet?

- A. The page must adhere to HTML 5.0 standards
- B. The page must adhere to WCAG 2.0 accessibility guidelines
- C. The page must be hosted on a domain that is on the validDomains list of the manifest
- D. The page must use CSS3 stylesheets

**Answer:** C

**Explanation:**

Make sure that all domains used in your tab pages are listed in the manifest.json validDomains array. Reference: <https://docs.microsoft.com/en-us/microsoftteams/platform/tabs/how-to/create-tab-pages/configuration-page>

**NEW QUESTION 77**

- (Exam Topic 2)

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 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 developing a new application named App1 that uses the Microsoft identity platform to authenticate to Azure Active Directory (Azure AD).

Currently, App1 can read user profile information. You need to allow App1 to read the user's calendar.

Solution: Add `https://graph.windows.net/user.read` to the list of scopes during the initial login request. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Microsoft Graph Calendars.Read allows the app to read events in user calendars.

For your app to access data in Microsoft Graph, the user or administrator must grant it the correct permissions via a consent process.

Application permissions are used by apps that run without a signed-in user present; for example, apps that run as background services or daemons. Application permissions can only be consented by an administrator.

References: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent> <https://docs.microsoft.com/en-us/graph/permissions-reference>

**NEW QUESTION 79**

- (Exam Topic 2)

You plan to integrate a web-based support ticketing system and Microsoft Teams.

You need to recommend a solution that will prompt users for specific information before a ticket is created. The solution must minimize development effort.

What should you include in the recommendation?

- A. outgoing webhooks
- B. incoming webhooks
- C. a notification-only bot
- D. a conversational bot

**Answer:** A

**Explanation:**

Webhooks are a great way for Teams to integrate with external apps. A webhook is essentially a POST request sent to a callback URL. In Teams, outgoing webhooks provide a simple way to allow users to send messages to your web service without having to go through the full process of creating bots via the Microsoft Bot Framework. Outgoing webhooks post data from Teams to any chosen service capable of accepting a JSON payload. Once an outgoing webhook is added to a team, it acts like bot, listening in channels for messages using @mention, sending notifications to external web services, and responding with rich messages that can include cards and images.

Reference:

<https://docs.microsoft.com/en-us/microsoftteams/platform/webhooks-and-connectors/how-to/add-outgoing-web>

**NEW QUESTION 84**

- (Exam Topic 2)

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
A Microsoft Teams bot receives a notification when a user clicks a conversation to which the bot is deployed.	<input type="radio"/>	<input type="radio"/>
A Microsoft Teams bot receives a notification when the team membership changes for a team of which the bot is a member.	<input type="radio"/>	<input type="radio"/>
A Microsoft Teams bot receives a notification when a user likes a message of the boot.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: No

Box 2: Yes

Partial table lists the events that your bot can receive and take action on.

Type	Payload object	Teams eventType	Description
conversationUpdate	membersAdded	teamMemberAdded	Member added to team
conversationUpdate	membersRemoved	teamMemberRemoved	Member was removed from team

Box 3: Yes

The messageReaction event is sent when a user adds or removes his or her reaction to a message which was originally sent by your bot.

Reference: <https://docs.microsoft.com/en-us/microsoftteams/platform/resources/bot-v3/bots-notifications>

**NEW QUESTION 85**

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