



## Microsoft

### Exam Questions MS-600

Building Applications and Solutions with Microsoft 365 Core Services

### NEW QUESTION 1

- (Exam Topic 1)

Which URI should you use to query all the emails that relate to an invoice?

`https://graph.microsoft.com/v1.0/me/messages?$search="{invoiceid}"`

`https://graph.microsoft.com/v1.0/me/messages?$subject eq {invoiceid}`

`https://graph.microsoft.com/v1.0/me/messages?${invoiceid}`

`https://graph.microsoft.com/v1.0/me/messages?$filter=contains(subject,{invoiceid})`

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

**Answer:** A

### NEW QUESTION 2

- (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 invoice.

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

### NEW QUESTION 3

- (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 4

- (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 5**

- (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 6**

- (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 7**

- (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 8**

- (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 9**

- (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 10**

- (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 10**

- (Exam Topic 2)

You are building an application that will help Azure Active Directory (Azure AD) administrators manage Microsoft 365 groups.

You are building a details page that will display information about the groups.

You need to display the groups of which the current group is member. The results must contain the nested groups.

Which URI should you use?

- <https://graph.microsoft.com/v1.0/groups/{id}/transitiveMembers>
- <https://graph.microsoft.com/v1.0/groups/{id}/owners>
- <https://graph.microsoft.com/v1.0/groups/{id}/memberOf>
- <https://graph.microsoft.com/v1.0/groups/{id}/members>
- <https://graph.microsoft.com/v1.0/groups/{id}/transitiveMemberOf>

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

**Answer:** D

**NEW QUESTION 12**

- (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 13**

- (Exam Topic 2)

Your company has a third-party invoicing web app.

You need to display the app within Microsoft Teams for one user only. The app will not require conversational interactions.

How should you display the app by using the minimum amount of effort?

- A. Instruct the user to add a website tab
- B. Instruct the user to add an App Studio app
- C. Create a SharePoint Framework (SPFx) web part
- D. Create a search-based messaging extension

**Answer:** A

**Explanation:**

There are currently three methods of app integration in Teams: Connectors, Bots, and Tabs. Tabs offer more extensive integration by allowing you to view entire third-party services within Microsoft Teams. Reference: <https://www.sherweb.com/blog/office-365/o365-microsoft-teams-apps/>

**NEW QUESTION 16**

- (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
You can use the JavaScript API for Microsoft Office to create a tab in Microsoft Teams.	<input type="radio"/>	<input type="radio"/>
You can use the JavaScript API for Microsoft Office to create a content add-in in Microsoft Excel.	<input type="radio"/>	<input type="radio"/>
You can use the JavaScript API for Microsoft Office to create a task pane add-in in Microsoft PowerPoint.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

As part of your app you can add custom tabs to embed your own web content in Teams, and using the Teams JavaScript client SDK, add Teams-specific functionality to your web content.

Box 2: Yes

You can use the Office JavaScript API to create task pane or content add-ins for Office 2013 host applications. Box 3: Yes

You can use the Office JavaScript API to create task pane or content add-ins for Office 2013 host applications. Reference: <https://docs.microsoft.com/en-us/microsoftteams/platform/tabs/what-are-tabs> <https://docs.microsoft.com/en-us/office/dev/add-ins/develop/support-for-task-pane-and-content-add-ins>

**NEW QUESTION 21**

- (Exam Topic 2)

You are developing an Azure web app that will enable users to view a consolidated view of multiple users' tasks based on data in Microsoft Planner and Outlook. The app will use the Microsoft identity platform and a certificate to establish an authorization flow between the app and Microsoft 365.

You obtain a certificate and you create an Azure Active Directory (Azure AD) application. You need to set up authorization for the application.

Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point. A. Add the application permissions to the Azure AD application.

- A. Create a secret in the Azure AD application.
- B. Add the required delegated permissions to the Azure AD application.
- C. Modify the code of the Azure web app to use the certificate to obtain an access token for Microsoft Graph.
- D. From the Azure portal, configure a certificate public key for the Azure AD application.

**Answer:** ACD

**NEW QUESTION 22**

- (Exam Topic 2)

You plan to develop a Microsoft Teams bot that will return product information to users by using an adaptive card.

You need to card to contain a button that will invoke a web search for the product. What should use?

- A. An action-based messaging extension
- B. A task module
- C. A search-based messaging extension
- D. An outgoing webhook

**Answer:** B

#### NEW QUESTION 27

- (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 28

- (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 29

- (Exam Topic 2)

You have a line-of-business API that is secured by using Azure Active Directory (Azure AD). You deploy a solution to the app catalog. The solution requests permission to the API.

What should you do in the SharePoint admin center to ensure that the solution can access the API?

- A. Create a SharePoint security group and add the solution
- B. Create an access policy
- C. Enable sandbox solutions
- D. Approve a pending permission request

**Answer:** D

#### Explanation:

Developers building a SharePoint Framework solution that requires access to specific resources secured with Azure AD list these resources along with the required permission scopes in the solution manifest. When deploying the solution package to the app catalog, SharePoint creates permission requests and prompts the administrator to manage the requested permissions. For each requested permission, tenant administrators can decide whether they want to grant or deny the specific permission.

All permissions are granted to the whole tenant and not to a specific application that has requested them. When the tenant administrator grants a specific permission, it is added to the SharePoint Online Client Extensibility Azure AD application, which is provisioned by Microsoft in every Azure AD and which is used by the SharePoint Framework in the OAuth flow to provide solutions with valid access tokens.

#### NEW QUESTION 31

- (Exam Topic 2)

You have an application that has the code shown in the exhibits. (Click the JavaScript Version tab or the C# Version tab.)

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

JavaScript Version



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

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

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

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

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

**Answer: C**

**NEW QUESTION 40**

- (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 44**

- (Exam Topic 2)

You plan to create a Microsoft Teams application that uses action-based messaging extensions. 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
A Teams application can have multiple action-based messaging extensions.	<input type="radio"/>	<input type="radio"/>
Action-based messaging extensions can contain unlimited commands.	<input type="radio"/>	<input type="radio"/>
Action-based messaging extensions can use the Bot Framework to collect information from users.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Answer Area

Statements

Yes

No

A Teams application can have multiple action-based messaging extensions.



Action-based messaging extensions can contain unlimited commands.



Action-based messaging extensions can use the Bot Framework to collect information from users.



NEW QUESTION 47

- (Exam Topic 2)

You are developing a human resources application that will show users where they are in their company's organization chart. You are adding a new feature that will display the name of a user's manager inside the application. You need to create a REST query to retrieve the information. The solution must minimize the amount of data retrieved. Which query should you use?

- A. GET [https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/manager?\\$select=displayName](https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/manager?$select=displayName)
- B. GET [https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/people?\\$filter=jobTitle eq 'manager'&\\$select=displayName](https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/people?$filter=jobTitle eq 'manager'&$select=displayName)
- C. GET [https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/contacts?\\$filter=jobTitle eq 'manager'](https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/contacts?$filter=jobTitle eq 'manager')
- D. GET <https://graph.microsoft.com/v1.0/users/{UserPrincipalName}/manager>

Answer: A

Explanation:

Get user's manager. Returns the user or organizational contact assigned as the user's manager. Syntax:

GET /me/manager

GET /users/{id | userPrincipalName}/manager

Only the name of the user's manager should be displayed so we use ?select=displayname

To specify a different set of properties to return than the default set provided by the Graph, use the \$select query option. The \$select option allows for choosing a subset or superset of the default set returned.

References: <https://docs.microsoft.com/en-us/graph/api/user-list-manager> [https://developer.microsoft.com/en-us/graph/docs/overview/query\\_parameters](https://developer.microsoft.com/en-us/graph/docs/overview/query_parameters)

NEW QUESTION 49

- (Exam Topic 2)

You are developing an application that will upload files that are larger than 50 MB to Microsoft OneDrive. You need to recommend an upload solution to ensure that the file upload process can resume if a network error occurs during the upload. 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

Answer Area

Send the final byte sequence.

Create a temporary upload folder in OneDrive.

Create an upload session that gets the uploadUrl value.

Upload the first sequence of bytes.

Use the nextExpectedRanges field to continue the upload process.

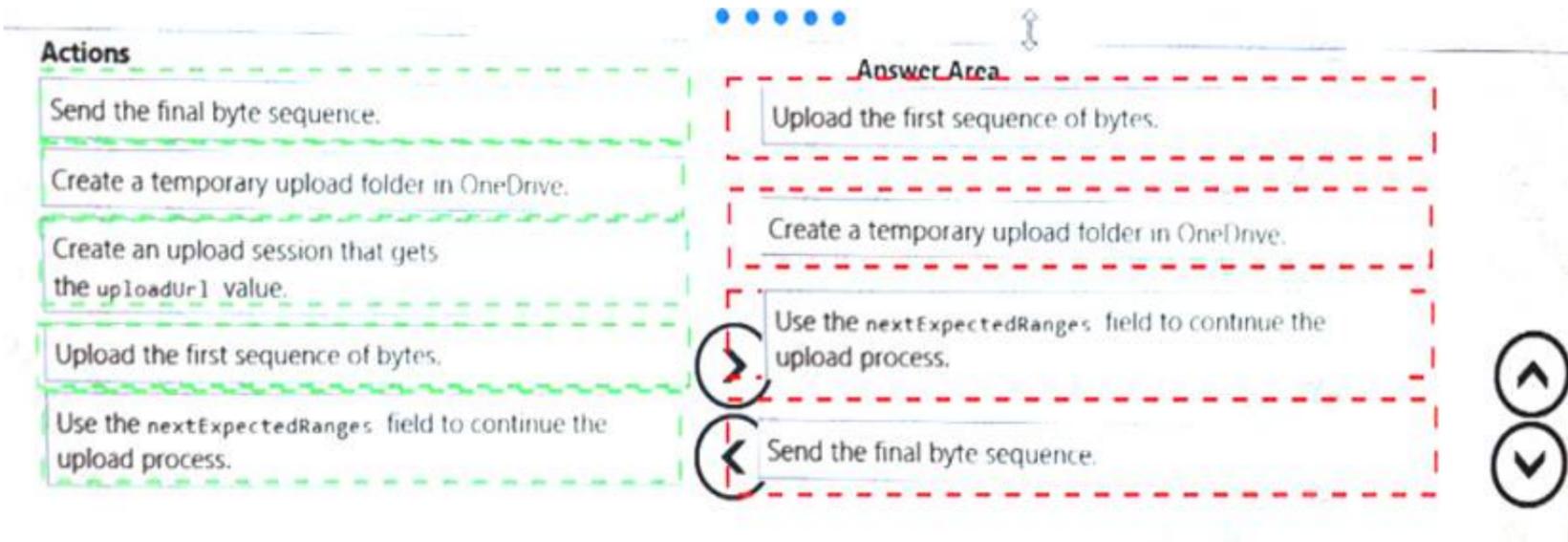
>  
<

↑  
↓

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 50**

- (Exam Topic 2)

You are building a Microsoft teams application by using an outgoing webhook.

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
If you have an outgoing webhook named hook1, you can invoke the webhook by using the @hook1 mention.	<input type="radio"/>	<input type="radio"/>
An outgoing webhook must be authenticated by using Azure Active Directory (Azure AD).	<input type="radio"/>	<input type="radio"/>
The security token for an outgoing webhook expires after one year.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Statements	Yes	No
If you have an outgoing webhook named hook1, you can invoke the webhook by using the @hook1 mention.	<input checked="" type="radio"/>	<input type="radio"/>
An outgoing webhook must be authenticated by using Azure Active Directory (Azure AD).	<input type="radio"/>	<input checked="" type="radio"/>
The security token for an outgoing webhook expires after one year.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 54**

- (Exam Topic 2)

You develop a web API named WebApi1.

When validating a token received from a client application, WebApi1 receives a MsalUiRequiredException exception from Azure Active Directory (Azure AD).

You need to formulate the response that WebApi1 will return to the client application. Which HTTP response should you send?

- A. HTTP 307 Temporary Redirect
- B. HTTP 400 Bad Request
- C. HTTP 403 Forbidden
- D. HTTP 412 Precondition Failed

**Answer:** D

**Explanation:**

The HyperText Transfer Protocol (HTTP) 412 Precondition Failed client error response code indicates that access to the target resource has been denied. This happens with conditional requests on methods other than GET or HEAD when the condition defined by the If-Unmodified-Since or If-None-Match headers is not fulfilled. In that case, the request, usually an upload or a modification of a resource, cannot be made and this error response is sent back.

MsalUiRequiredException

The "Ui Required" is proposed as a specialization of MsalServiceException named MsalUiRequiredException. This means you have attempted to use a non-interactive method of acquiring a token (e.g. AcquireTokenSilent), but MSAL could not do it silently. this can be because:



- you need to sign-in
- > you need to consent
- > you need to go through a multi-factor authentication experience.

The remediation is to call AcquireTokenInteractive try

```
{
app.AcquireTokenXXX(scopes, account) WithYYYY(...)
ExecuteAsync()
}
catch(MsalUiRequiredException ex)
{
app.AcquireTokenInteractive(scopes) WithAccount(account)
WithClaims(ex.Claims) ExcecuteAsync();
}
```

**NEW QUESTION 55**

- (Exam Topic 2)

You are designing a custom SharePoint Framework (SPFx) web part that will be deployed to modern Microsoft SharePoint sites. You need to ensure that all the web part fields and controls adopt the theme of the site when you deploy the web part. What should you use to develop the web part?

- A. Material-UI
- B. Office UI Fabric React
- C. HTML 5.0 and CSS
- D. Fluid Framework

**Answer: B**

**Explanation:**

Office UI Fabric is Microsoft's official front end framework for building User Interface experiences for Office and Office 365. In simple terms it gives you the look and feel for your component. Moreover, they are open source, mobile responsive and reusable, no need to create from scratch just refer them in your code and start utilizing them.

Microsoft modern SharePoint out of the box webparts are made up these Office UI Fabric framework, so to maintain consistency look and feel as like Office it's better to use these components in our custom SPFx webparts.

Reference:

<http://www.sharepointsamples.com/sharepoint-framework-webpart-with-office-ui-fabric-react-component/>

**NEW QUESTION 58**

- (Exam Topic 2)

You are developing a single-page application (SPA).

You plan to access user data from Microsoft Graph by using an AJAX call.

You need to obtain an access token by the Microsoft Authentication Library (MSAL). The solution must minimize authentication prompts.

How should you complete the code segment? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
var msalApp = new Msal.UserAgentApplication(msalConfig);
...
var loginRequest = {scopes: appConfig.scopes};
msalApp. [dropdown] (loginRequest).then(function(loginResponse) {
  [dropdown]
  acquireTokenPopup
  acquireToken Silent
  loginPopup
  loginRedirect
})

var tokenRequest = {scopes: appConfig.scopes};
msalApp. [dropdown] (tokenRequest).then(function(tokenResponse) {
  [dropdown]
  acquireTokenByAuthorizationCode
  acquireTokenPopup
  acquireTokenRedirect
  acquireTokenSilent
})

updateApplicationUI(tokenResponse);
}).catch(function(error) {
  [dropdown]
  acquireTokenByAuthorizationCode
  acquireTokenPopup
  acquireTokenRedirect
  acquireTokenSilent
});

updateApplicationUI(tokenResponse);
});
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: loginPopup

Box 2: acquireTokenSilent

The pattern for acquiring tokens for APIs with MSAL.js is to first attempt a silent token request by using the acquireTokenSilent method. When this method is called, the library first checks the cache in browser storage to see if a valid token exists and returns it. When no valid token is in the cache, it sends a silent token request to Azure Active Directory (Azure AD) from a hidden iframe. This method also allows the library to renew tokens.

Box 3: acquireTokenPopup

//AcquireToken Failure, send an interactive request. Example:

```
userAgentApplication.loginPopup(applicationConfig.graphScopes).then(function (idToken) {
```

```
//Login Success
```

```
userAgentApplication.acquireTokenSilent(applicationConfig.graphScopes).then(function (accessToken) {
```

```
//AcquireToken Success updateUI();
```

```
}, function (error) {
```

```
//AcquireToken Failure, send an interactive request. userAgentApplication.acquireTokenPopup(applicationConfig.graphScopes).then(function (accessToken) {
```

```
updateUI();
```

```
}, function (error) { console.log(error);
```

```
});
```

```
});
```

```
}, function (error) { console.log(error);
```

```
});
```

Reference: <https://github.com/AzureAD/microsoft-authentication-library-for-js/issues/339>

**NEW QUESTION 63**

- (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 67**

- (Exam Topic 2)

You receive the following JSON document when you use Microsoft Graph to query the current signed-in user.

```
(
  "@odata.context": "https://graph.microsoft.com/v1.0/$metadata#users/$entity",
  "businessPhones": [
    "+1 555 444 222"
  ],
  "displayName": "BenSmith",
  "givenName": "Ben",
  "jobTitle": "Developer",
  "mail": "ben.smith@contoso.com",
  "mobilePhone": "+1 555 444 222",
  "officeLocation": null,
  "preferredLanguage": null,
  "surname": "Smith",
  "userPrincipalName": "ben.smith@contoso.com",
  "id": "5fa74bb7-b45b-426d-8ac7-446f090feeb5"
)
```

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
If you query a URI of <a href="https://graph.microsoft.com/v1.0/me/photo/\$value">https://graph.microsoft.com/v1.0/me/photo/\$value</a> , you will get the profile picture.	<input type="radio"/>	<input type="radio"/>
If you query a URI of <a href="https://graph.microsoft.com/v1.0/users/ben.smith@contoso.com/photo/\$value">https://graph.microsoft.com/v1.0/users/ben.smith@contoso.com/photo/\$value</a> , you will get the profile picture.	<input type="radio"/>	<input type="radio"/>
If you query a URI of <a href="https://graph.microsoft.com/v1.0/users/5fa74bb7-b45b-426d-8ac7-446f090feeb5/photo/\$value">https://graph.microsoft.com/v1.0/users/5fa74bb7-b45b-426d-8ac7-446f090feeb5/photo/\$value</a> , you will get the profile picture.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Syntax: GET /me/photo/\$value

Get the specified profilePhoto or its metadata (profilePhoto properties). Example: Get the photo for the signed-in user in the largest available size GET

[https://graph.microsoft.com/v1.0/me/photo/\\$value](https://graph.microsoft.com/v1.0/me/photo/$value)

Box 2: Yes

Syntax: GET /users/{id | userPrincipalName}/photo/\$value

Get the specified profilePhoto or its metadata (profilePhoto properties). Box 3: Yes

Syntax: GET /users/{id | userPrincipalName}/photo/\$value

Get the specified profilePhoto or its metadata (profilePhoto properties). Reference: <https://docs.microsoft.com/en-us/graph/api/profilephoto-get>

**NEW QUESTION 70**

- (Exam Topic 2)

You are creating an application named App1 that will use the Microsoft identity platform. App1 will be accessed only by users from several different Microsoft 365 subscriptions.

Which Supported account types setting should you configure for App1?

- A. Accounts in this organizational directory only
- B. Accounts in any organizational directory and personal Microsoft a accounts
- C. Accounts in any organizational directory

**Answer:** B

**NEW QUESTION 75**

- (Exam Topic 2)

You are developing in application named App1.

App1 needs to use the Microsoft Graph API to retrieve emails from Microsoft 365 for the current signed-in user. The solution must meet the following requirements:

- > Emails that have attachments and are from bill@contoso.com must be retrieved.
- > The results must show the subject of the email, the sender address, and the count of emails retrieved.

How should you complete the URI to retrieve the results? To answer, drag the appropriate values to the correct targets. Each value 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.

### Actions

- \$count
- \$expand
- \$filter
- \$format
- \$orderby
- \$select

### Answer Area

<https://graph.microsoft.com/v1.0/me/messages?>
=true&

=subject, from&
 hasAttachments

eq true and from/emailAddress/address eq 'bill@contoso.com'

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: \$count

Use \$count as a query parameter to include a count of the total number of items in a collection alongside the page of data values returned from the Graph, as in the following example:

GET [https://graph.microsoft.com/v1.0/me/contacts?\\$count=true](https://graph.microsoft.com/v1.0/me/contacts?$count=true) Box 2: \$select

To specify a different set of properties to return than the default set provided by the Graph, use the \$select query option. The \$select option allows for choosing a subset or superset of the default set returned.

Box 3: \$filter

To filter the response data based on a set of criteria, use the \$filter query option.

The following example returns messages that have the address field of the from property equal to "jon@contoso.com".

The from property is of the complex type emailAddress.

GET [https://graph.microsoft.com/v1.0/me/messages?\\$filter=from/emailAddress/address eq 'jon@contoso.com'](https://graph.microsoft.com/v1.0/me/messages?$filter=from/emailAddress/address eq 'jon@contoso.com') Reference: [https://developer.microsoft.com/en-us/graph/docs/overview/query\\_parameters](https://developer.microsoft.com/en-us/graph/docs/overview/query_parameters)

**NEW QUESTION 77**

- (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.Read.All permission.
- B. Request the Group.Read.All permission.
- C. All permission.
- D. Grant tenant admin consent for the Group.Read.All permission.
- E. All permission.
- F. Configure the application to use application permissions.
- G. In the permission request for the application, request the Group.Read.All permission.
- H. Readwrite
- I. All permission

**Answer:** AD

**NEW QUESTION 78**

- (Exam Topic 2)

You have a backend service that will access the Microsoft Graph API.

You need to configure the service to authenticate by using the most secure authentication method. What should you configure the service to use?

- A. a certificate
- B. a client secret
- C. a shared key
- D. a hash

**Answer:** A

**Explanation:**

You can authenticate to the Graph API with two primary methods: AppId/Secret and certificate based authentication. Certificate is the preferred and more secure way of authenticating.

Reference: <https://adamtheautomator.com/microsoft-graph-api-powershell/>

**NEW QUESTION 80**

- (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 82**

- (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 86**

- (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 89**

- (Exam Topic 2)

You are developing a Microsoft Team application. To host a webpage in a Teams tab, the manifest file must include the contentUrl property within the staticTabs property.

Instructions: Review the underline text. If the 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. websiteUrl property within the configuragbleTabs property
- C. ValidDomain property within the configuragbleTabs property
- D. ValidDomain property within the statictabs property

**Answer:** B

**NEW QUESTION 92**

- (Exam Topic 2)

You are building a Microsoft Teams application.

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
An outgoing webhook can reply to messages by using an adaptive card.	<input type="radio"/>	<input type="radio"/>
An outgoing webhook can post in Teams channels proactively.	<input type="radio"/>	<input type="radio"/>
An outgoing webhook requires a callback URL.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

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.

Box 2: Yes

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.

Box 3: Yes

Create an outgoing webhook

- > Select the appropriate team and select Manage team from the (•••) drop-down menu.
- > Choose the Apps tab from the navigation bar.
- > From the window's lower right corner select Create an outgoing webhook.
- > In the resulting popup window complete the required fields:
- > Name - The webhook title and @mention tap.
- > Callback URL - The HTTPS endpoint that accepts JSON payloads and will receive POST requests from Teams.

Reference:

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

**NEW QUESTION 96**

- (Exam Topic 2)

You are building a Microsoft Outlook add-in.

Which object should you use to save additional information in an email?

- A. CustomProperties
- B. CustomXMLParts
- C. RoamingSettings
- D. localStorage

**Answer:** B

**NEW QUESTION 101**

- (Exam Topic 2)

You are developing a web app that will display emails from the Microsoft 365 mailbox of the current signed-in user.

For performance reasons, you do not want all the emails to be loaded simultaneously, rather page-by-page as the user navigates the app.

You plan to display 30 emails per page. The most recent emails must be displayed first.

How should you complete the query parameters for the REST request to display the third page of emails? To answer, drag the appropriate query parameters to the correct targets. Each query parameter 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.

### Actions

### Answer Area

GET <https://graph.microsoft.com/v1.0/me/messages?>=60&=30&\$orderby=sentDateTime desc

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: top

Number of items to return in a result Box 2: skip

\$skip Indexes into a result set. Also used by some APIs to implement paging and can be used together with \$top to manually page results.

Reference: [https://developer.microsoft.com/en-us/graph/docs/overview/query\\_parameters](https://developer.microsoft.com/en-us/graph/docs/overview/query_parameters)

#### NEW QUESTION 104

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