



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 implement the role functionality for the backend web service calls.

Which three 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.

The screenshot shows an exam question interface. On the left, under the heading "Actions", there is a list of six actions in a box:

- Upload a certificate for the application registration of the backend web service.
- Modify the manifest that defines the application roles and set Allowed Member Types to **Apps**.
- Modify the manifest that defines the application roles and set Allowed Member Types to **Users**.
- Create a new client secret in the application registration of the backend web service.
- Verify for the role claims in the backend web service.
- Assign the roles to the Azure AD group that contains the users who are mapped to the roles.

 To the right of this list are two circular arrows, one pointing right and one pointing left. On the right side, under the heading "Answer Area", there are three numbered slots (1, 2, 3) for placing the selected actions. The slots are currently empty.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The screenshot shows the same exam question interface as above, but with the answer area populated. The three numbered slots in the "Answer Area" contain the following actions in order:

1. Create a new client secret in the application registration of the backend web service.
2. Verify for the role claims in the backend web service.
3. Assign the roles to the Azure AD group that contains the users who are mapped to the roles.

 The other actions from the list are not present in the answer area.

NEW QUESTION 3

- (Exam Topic 1)

What are two possible URIs that you can use to configure the content administration user interface? Each correct answer present a complete solution.

NOTE: Each correct selection is worth one point.



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

Answer: BC

NEW QUESTION 4

- (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 5

- (Exam Topic 2)

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

You develop a Microsoft Teams application that uses a messaging extension. Users can invoke the messaging extension from the Teams sidebar menu.

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. from the compose box of a Teams chat
- C. by using the Manage teams option for a team
- D. by using the Add a tab option in the Teams channel

Answer: B

Explanation:

In the app manifest for your Microsoft Teams app you'll define a single messaging extension with up to ten different commands. Each command defines a type (action or search), and the locations in the client it can be invoked from (compose message area, command bar, and/or message).

Reference:

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

NEW QUESTION 6

- (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 7

- (Exam Topic 2)

You need to request permission to create a group in a Sharepoint Framework (SPFx) solution. To which file should you add the permission request?

- A. Config.json
- B. Package.json
- C. Serve.json
- D. Package-solution.json

Answer: D

NEW QUESTION 8

- (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 9

- (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 10

- (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

```
const fs = require("fs");
const execute = async (accessToken: string, filename: string): Promise<void> => {
    //...
    const stream = await client.api(`/me/drive/root/children/${filename}/content`)
        .getStream();
    let writeStream = fs.createWriteStream(`../${filename}`);
    stream.pipe(writeStream).on("error", (err) => {
        throw err;
    });
    writeStream.on("error", (err) => {
        throw err;
    });
    await new Promise((resolve) => writeStream.on("finish", resolve));
}
//...
```

C# Version

```
namespace MyProject {
    class Handler {
        public async Task Execute(string accessToken, string path) {
            var client = new GraphServiceClient(new GraphAuthProvider(accessToken));
            var pathRequestBuilder = client.Drive.Root.ItemWithPath(path);
            var file = await pathRequestBuilder.Request().GetAsync();
            if (file.File != null)
            {
                using (var content = await pathRequestBuilder.Content.Request().GetAsync())
                using (var diskFile = System.IO.File.Create(file.Name))
                {
                    content.Seek(0, System.IO.SeekOrigin.Begin);
                    await content.CopyToAsync(diskFile);
                    await diskFile.FlushAsync();
                }
            }
        }
    }
}
```

Statements	Yes	No
The code uploads a file to a Microsoft SharePoint Online site.	<input type="radio"/>	<input type="radio"/>
The code creates a file in Microsoft OneDrive.	<input type="radio"/>	<input type="radio"/>
The code downloads a file from Microsoft OneDrive.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: No

Box 2: No

Box 3: Yes

A file is downloaded from OneDrive and saved locally.

Drive/Root is the drive resource is the top level object representing a user's OneDrive or a document library in SharePoint.

Reference: <https://docs.microsoft.com/en-us/graph/api/resources/drive>

NEW QUESTION 10

- (Exam Topic 2)

You are developing an application that will run as an overnight background service on a server. The service will access web-hosted resources by using the application's identity and the OAuth 2.0 client credentials grant flow.

You register the application and grant permissions. The tenant administrator grants admin consent to the application.

You need to get the access token from Azure Active Directory (Azure AD).

Which URI should you use for the POST request? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
https://login.microsoftonline.com/<TenantId>/oauth2/v2.0/
?client_id=<ClientID>
&client_secret=<ClientSecret>
&scope=https://graph.microsoft.com/.default
&grant_type=
```

authorization_code

client_credentials

on_behalf_of

refresh_token

urn:ietf:params:oauth:grant-type:jwt-bearer

authorize

code

keys

token

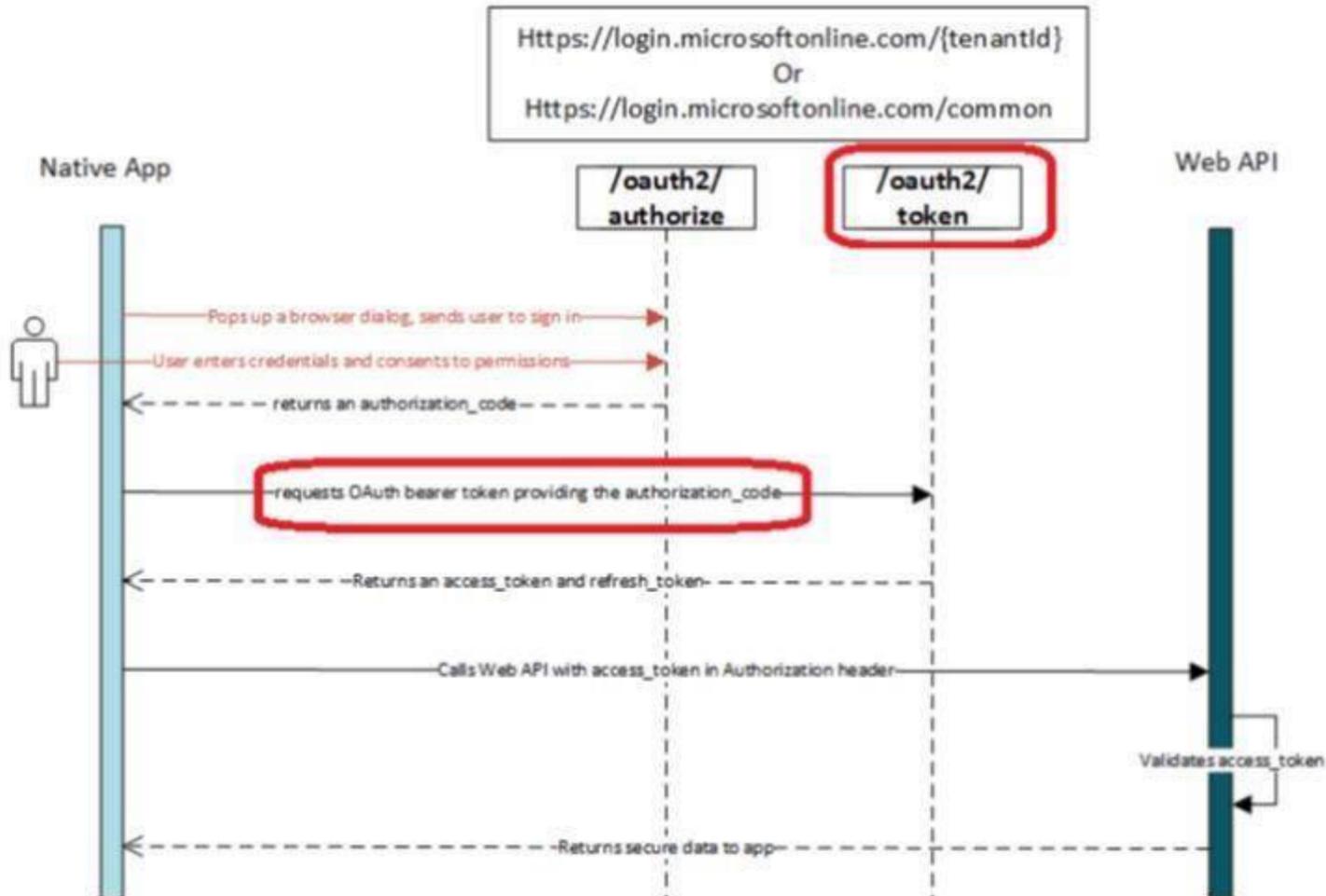
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

OAuth2 client_id client_secret

The authorization code flow begins with the client directing the user to the /authorize endpoint. Box 1: token
 Use the authorization code to request an access token.
 Now that you've acquired an authorization code and have been granted permission by the user, you can redeem the code for an access token to the desired resource, by sending a POST request to the /token endpoint:
 Box 2: authorization_code
 Use the authorization code to request an access token. Example:
 // Line breaks for legibility only
 POST /{tenant}/oauth2/token HTTP/1.1 Host: https://login.microsoftonline.com
 Content-Type: application/x-www-form-urlencoded grant_type=authorization_code
 etc.
 Note: At a high level, the entire authorization flow for an application looks a bit like this:



Reference: <https://docs.microsoft.com/en-us/azure/active-directory/develop/v1-protocols-oauth-code>

NEW QUESTION 11

- (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. RoleManagemen
- B. Read . Directory
- C. Device.Command
- D. Device.Read
- E. Calendars.ReadWrite

Answer: A

NEW QUESTION 12

- (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 17

- (Exam Topic 2)

You are building a Microsoft Outlook Web Add-in.

You need to persist user preferences between devices by using the minimum amount of development effort. Which API should you use?

- A. the Microsoft Graph API
- B. the REST API for the Blob service
- C. the JavaScript API for Microsoft Office
- D. the Table service REST API

Answer: C

Explanation:

You can persist add-in state and settings with the JavaScript API for Office.

The JavaScript API for Office provides the Settings, RoamingSettings, and CustomProperties objects for saving add-in state across sessions

Reference: <https://docs.microsoft.com/en-us/office/dev/add-ins/develop/persisting-add-in-state-and-settings>

NEW QUESTION 22

- (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	<input type="text"/> Administrator Application Delegated Super User
Send automated reminder's	<input type="text"/> 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 25

- (Exam Topic 2)

You are developing a sever-based application that has the following requirements: Prompt the user to fill out a form that contains a keyword.

Search the Microsoft OneDrive folder for files that contain the keyword and return the results to the user. Allow the user to select one of the files from the results.

Copy the selected file to an Azure Blob storage container.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 26

- (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. 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 31

- (Exam Topic 2)

You use Azure Active Directory (Azure AD) to store user identities. The user profile information is inconsistently populated.

You need to develop a web app that will provide users with a page where they can enter their interests, skill, and description. When the user click the submit button, the app will use Microsoft graph to send the data to Azure AD.
Which HTTP method should you use against the Microsoft graph endpoint?

- A. PUT
- B. POST
- C. PATCH
- D. GET

Answer: A

NEW QUESTION 35

- (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 37

- (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 42

- (Exam Topic 2)

You have a SharePoint Framework (SPFx) 1.5 solution.

You need to ensure that the solution can be used as a tab in Microsoft Teams. What should you do first?

- A. Convert the solution to use the Bot Framework
- B. Deploy the solution to a developer site collection
- C. Deploy the solution to the Microsoft AppSource store
- D. Upgrade the solution to the latest version of SPFx

Answer: D

Explanation:

Starting with the SharePoint Framework v1.8, you can implement your Microsoft Teams tabs using SharePoint Framework.

Reference:

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

NEW QUESTION 47

- (Exam Topic 2)

Which tool can you use to generate a SharePoint Framework (SPFx) solution?

- A. Eclipse
- B. App Studio
- C. Yacc
- D. Yeoman

Answer: D

Explanation:

Yeoman helps you to kickstart new projects, prescribing best practices and tools to help you stay productive. Using the Yeoman SharePoint generator, developers are able to scaffold new client-side solution projects to build, package, and deploy SharePoint solutions. The generator provides common build tools, boilerplate code, and a common playground website to host web parts for testing. Reference:

<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/toolchain/scaffolding-projects-using-yeomansharepoint-ge>

NEW QUESTION 52

- (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

```

module.exports = function(context, myTrigger) {
  //...
  var group =
  {
    DisplayName: groupTitle,
    GroupTypes: ["Unified"],
    MailEnabled: true,
    SecurityEnabled: false,
    Visibility: "Private"
  };
  client.api('/groups').post(group).then((groupResult) => {
    client.api('/users/$userName').get().then((userResult) => {
      var user = {
        "@odata.id": 'https://graph.microsoft.com/v1.0/directoryObjects/${UserResult.Id}'
      };
      client.api('/groups/${groupResult.Id}/members/$ref').post(user).then(() => {
        context.done();
      });
    });
  });
};

```

C# Version

```

namespace MyProject
{
  public static class MainActivity
  {
    [FunctionName(nameof(MainActivity))]
    public static async Task Run([ActivityTrigger] string accessToken, string userEmail, string groupTitle)
    {
      var client = new GraphServiceClient(new GraphAuthProvider(accessToken));
      var group = new Group
      {
        DisplayName = groupTitle,
        GroupTypes = new string[] { "Unified"},
        MailEnabled = true,
        SecurityEnabled = false,
        Visibility = "Private"
      };
      var createdGroup = await client.Groups.Request().AddAsync(group);
      var user = await client.Users[userEmail].Request().GetAsync();
      await client.Groups[createdGroup.Id].Members.References.Request().AddAsync(user);
    }
  }
}

```

Statements	Yes	No
The code creates a unified group in Microsoft Office 365.	<input type="radio"/>	<input type="radio"/>
The code adds a member to a group.	<input type="radio"/>	<input type="radio"/>
The code adds an owner to a group.	<input type="radio"/>	<input type="radio"/>
The code creates a team in Microsoft Teams.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

Unified is specified in the code.

Note: You can create the following types of groups: Office 365 group (unified group)

Security group Box 2: Yes

A member is added to the group. Box 3: No

Box 4: No
 Reference: <https://docs.microsoft.com/en-us/graph/api/group-post-groups>

NEW QUESTION 57

- (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 59

- (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 61

- (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 64

- (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) {

msalApp. [dropdown] (tokenRequest).then(function(tokenResponse) {
    [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 65

- (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 69

- (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 select 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 73

- (Exam Topic 2)

You are building a new tab as part of a new Microsoft Teams application. Users will experience the tab privately.

How should you complete the application manifest? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Object key to declare the tab: **bots**
 configurableTabs
 connectors
 staticTabs

Scope of the tab: Groupchat
 Personal
 Team

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Object key to declare the tab: **bots**
 configurableTabs
 connectors
 staticTabs

Scope of the tab: Groupchat
 Personal
Team

NEW QUESTION 74

- (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 79

- (Exam Topic 2)

You plan to deploy a SharePoint Framework (SPFx) solution to the tenant app catalog.

Which attribute should you configure in the package-solution.json file to ensure that the solution is available immediately to all site collections?

- A. skipFeatureDeployment
- B. zippedPackage
- C. ClientSideComponentId
- D. isDomainIsolated

Answer: A

Explanation:

You can configure your SharePoint Framework components to be immediately available across the tenant when the solution package is installed to the tenant app catalog. This can be configured by using the skipFeatureDeployment attribute in the package-solution.json file.
 Reference: <https://docs.microsoft.com/en-us/sharepoint/dev/spfx/tenant-scoped-deployment>

NEW QUESTION 84

- (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	Answer Area
<input type="text" value="\$count"/>	<code>https://graph.microsoft.com/v1.0/me/messages? <input type="text" value="Value"/> =true&</code>
<input type="text" value="\$expand"/>	<code><input type="text" value="Value"/> =subject, from& <input type="text" value="Value"/> hasAttachments</code>
<input type="text" value="\$filter"/>	<code>eq true and from/emailAddress/address eq 'bill@contoso.com'</code>
<input type="text" value="\$format"/>	
<input type="text" value="\$orderby"/>	
<input type="text" value="\$select"/>	

- 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

NEW QUESTION 88

- (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
- 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. Request the Group.Read.All permission.
- I. All permission

Answer: AD

NEW QUESTION 91

- (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

[https://graph.microsoft.com/v1.0/\\$batch](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": "on vacation",
      "showAs": "oof",
      "start": {
        "dateTime": "2019-08-27T14:49:06.595Z",
        "timeZone": "UTC"
      }
    },
    "headers": {
      "Content-type": "application/json"
    }
  },
  {
    "id": "2",
    "dependsOn": [1, 2],
    "url": "/me/mail",
    "method": "POST",
    "body": {
      "automaticRepliesSetting": {
        "status": "Scheduled",
        "scheduledStartDateTime": {
          "dateTime": "2020-03-20T18:00:00.0000000",
          "timeZone": "UTC"
        },
        "scheduledEndDateTime": {
          "dateTime": "2020-03-26T18:00:00.0000000",
          "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
These 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": [{"id": "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 96

- (Exam Topic 2)

You are building a Microsoft Outlook add-in.

Which object should you use to save a user's preferences between sessions and devices?

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

Answer: D

NEW QUESTION 97

- (Exam Topic 2)

You are developing a SharePoint Framework (SPFx) web part. The web part will call a backed API that is secured by using Azure Active Directory (Azure AD). The web part will be on a page that has many other web parts.

Which type of web part should you use ensure that access to the exclusive to the web part?

- A. Provider-hosted
- B. SharePoint-hosted
- C. Domain isolated
- D. Connected

Answer: A

NEW QUESTION 98

- (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 99

- (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 101

- (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 104

- (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 108

- (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 110

- (Exam Topic 2)

You need to retrieve a list of the last 10 files that the current user opened from Microsoft OneDrive. The response must contain only the file ID and the file name. Which URI should you use to retrieve the results? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

<https://graph.microsoft.com/v1.0/me/drive/> ▼ ? ▼ &\$top=10

children
files
recent
root

\$expand=id,name
\$select=id,name
\$filter=id,name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

"graph.microsoft.com" "drive" onedrive Box 1: root /root - The root folder for the drive. Box 2: \$select=id,name

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. For example, when retrieving your messages, you might want to select that only the from and subject properties of messages are returned.

References: <https://docs.microsoft.com/en-us/onedrive/developer/rest-api/concepts/addressing-driveitems> https://developer.microsoft.com/en-us/graph/docs/overview/query_parameters

NEW QUESTION 114

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