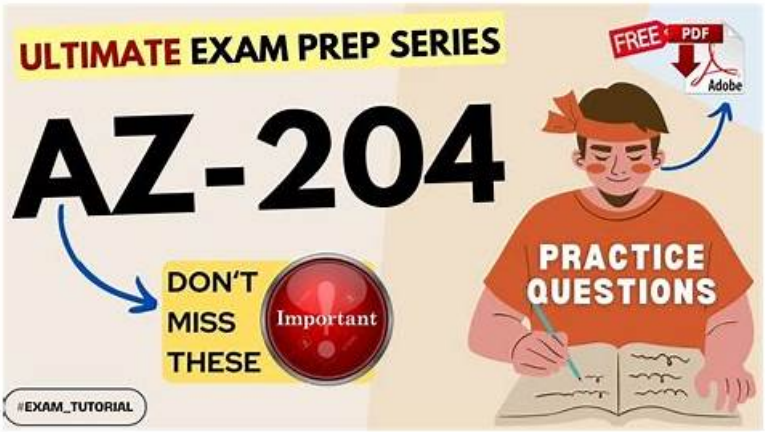
AZ-204 Exam Tutorial & AZ-204 Valid Test Questions



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The Microsoft AZ-204 Exam measures the candidate's ability to develop and implement Azure-based solutions, including Azure Functions, Azure Storage, Azure App Service, Azure Event Grid, and Azure Cosmos DB. Candidates are required to have a solid understanding of programming languages such as C#, .NET, and Azure SDKs, and they must be proficient in using Azure Portal, PowerShell, and Azure CLI to manage Azure resources.

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Microsoft Developing Solutions for Microsoft Azure Sample Questions (Q142-Q147):

NEW QUESTION # 142
You are developing an app that manages users for a video game. You plan to store the region, email address, and phone number for the player. Some players may not have a phone number. The player's region will be used to load-balance data.
Data for the app must be stored in Azure Table Storage.
You need to develop code to retrieve data for an individual player.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

```
public class PlayerEntity : TableEntity
{
   public PlayerEntity()
   {
   }
   public PlayerEntity(string region, string email)
   {
     ParitionKey = [ ▼ ] ;
                   email
                   phone
                   region
     RowKey=       [ ▼ ] ;
                   email
                   phone
                   region
   }
     public string Phone { get; set; }
   }
   public class Player
   }

protected PlayerEntity player;
async void GetPlayer(string cs, [ ▼ ] table, string pk, string rk)
                                 CloudTable
                                 CloudTableClient
                                 TableEntity
                                 TableEntityAdapter
{
   [ ▼ ]
     TableEntity query =TableEntity.Retrieve<PlayerEntity>(pk, rk);
     TableOperation query =TableOperation.Retrieve<PlayerEntity>(pk,rk);
     TableResult query =TableQuery.Retrieve<PlayerEntity>(pk,rk);
     TableResultSegment query =TableResult.Retrieve<PlayerEntity>(pk, rk);
   [ ▼ ]
     TableEntity data =await table.ExecuteAsync(query);
     TableOperation data =await.table.ExeucteAsync(query);
     TableQuery data =await table.ExecuteAsync(query);
     TableResult data =await table.ExecuteAsync(query);
 player=data.Result as PlayerEntity;
 }
}
```


Answer:

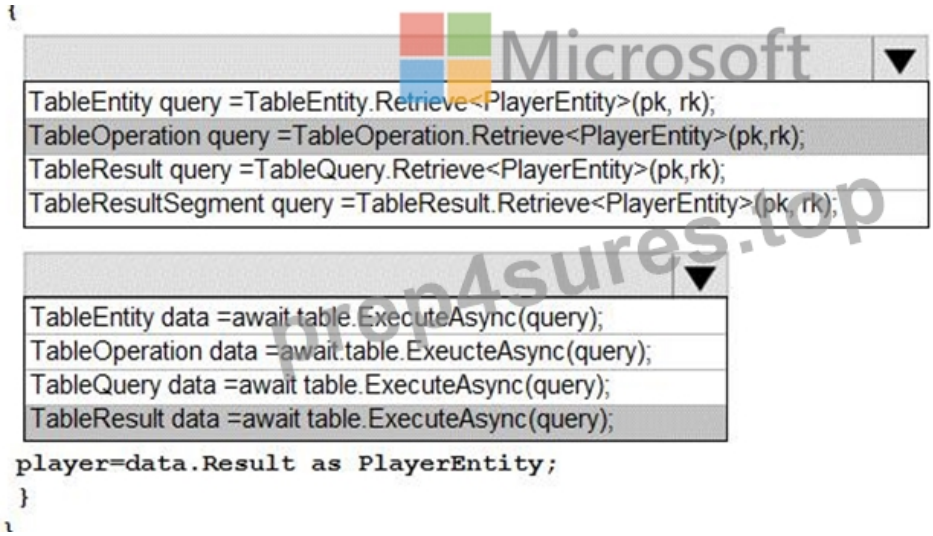
Explanation:

```
public class PlayerEntity : TableEntity
{
   public PlayerEntity()
   {
   }
   public PlayerEntity(string region, string email)
   {
     ParitionKey = [ ; ]
                   email
                   phone
                   region

     RowKey=       [ ; ]
                   email
                   phone
                   region
   }
     public string Phone { get; set; }
   }
   public class Player
   }

protected PlayerEntity player;
async void GetPlayer(string cs, [ ] table, string pk, string rk)
                                 CloudTable
                                 CloudTableClient
                                 TableEntity
                                 TableEntityAdapter
{
  [ ]
    TableEntity query =TableEntity.Retrieve<PlayerEntity>(pk, rk);
    TableOperation query =TableOperation.Retrieve<PlayerEntity>(pk,rk);
    TableResult query =TableQuery.Retrieve<PlayerEntity>(pk,rk);
    TableResultSegment query =TableResult.Retrieve<PlayerEntity>(pk, rk);

  [ ]
    TableEntity data =await table.ExecuteAsync(query);
    TableOperation data =await.table.ExeucteAsync(query);
    TableQuery data =await table.ExecuteAsync(query);
    TableResult data =await table.ExecuteAsync(query);
player=data.Result as PlayerEntity;
}
}
```



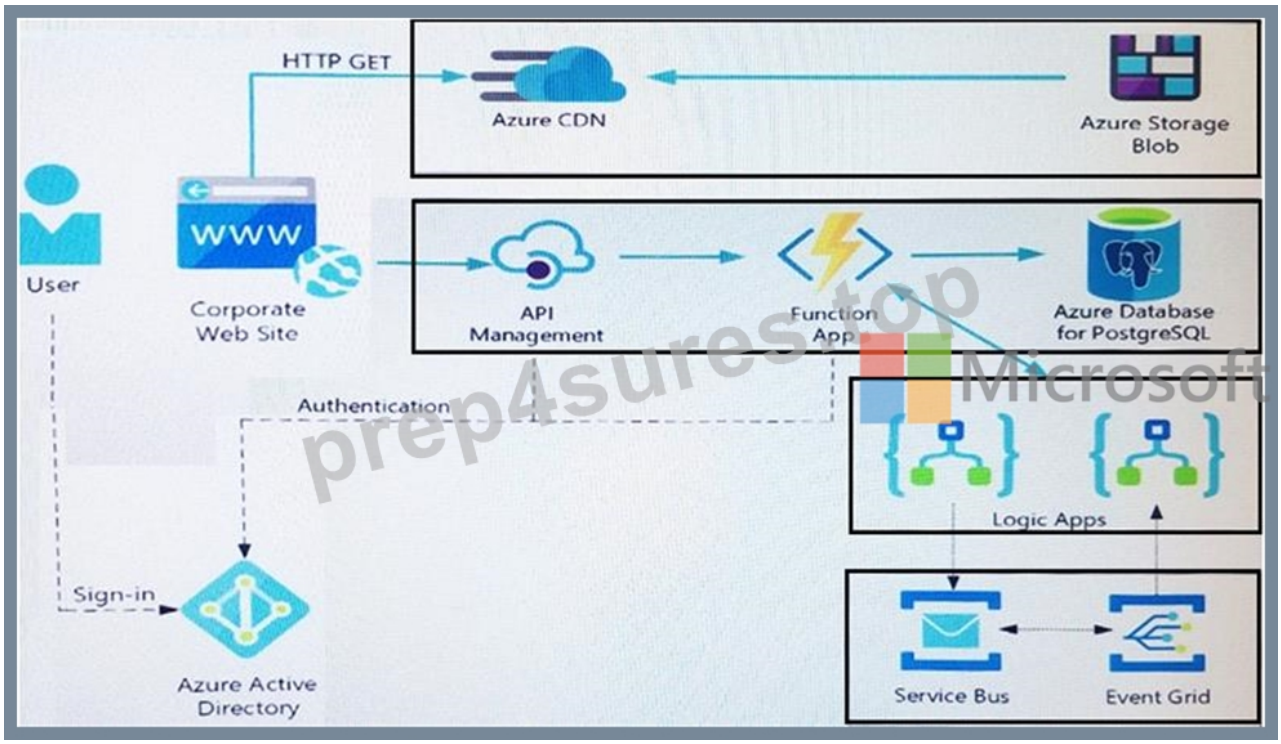
Reference:
https://docs.microsoft.com/en-us/rest/api/storageservices/designing-a-scalable-partitioning-strategy-for-azure-table-storage

NEW QUESTION # 143
You need to deploy the CheckUserContent Azure function. The solution must meet the security and cost requirements.
Which hosting model should you use?

- A. Consumption plan
- B. App Service plan
- C. Premium plan

Answer: A

Explanation:
This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.
To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.
At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.
To start the case study
To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.
Background
City Power & Light company provides electrical infrastructure monitoring solutions for homes and businesses. The company is migrating solutions to Azure.
Topic 3, City Power & Light
Current environment
Architecture Overview
The company has a public website located at http://www.cpandl.com/. The site is a single-page web application that runs in Azure App Service on Linux. The website uses files stored in Azure Storage and cached in Azure Content Delivery Network (CDN) to serve static content.
API Management and Azure Function App functions are used to process and store data in Azure Database for PostgreSQL. API Management is used to broker communications to the Azure Function app functions for Logic app integration. Logic apps are used to orchestrate the data processing while Service Bus and Event Grid handle messaging and events.
The solution uses Application Insights, Azure Monitor, and Azure Key Vault.
Architecture diagram
The company has several applications and services that support their business. The company plans to implement serverless computing where possible. The overall architecture is shown below.



User authentication
The following steps detail the user authentication process:
The user selects Sign in in the website.
The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.
The user signs in.
Azure AD redirects the user's session back to the web application. The URL includes an access token.
The web application calls an API and includes the access token in the authentication header. The application ID is sent as the audience ('aud') claim in the access token.
The back-end API validates the access token.
Requirements
Corporate website
Communications and content must be secured by using SSL.
Communications must use HTTPS.
Data must be replicated to a secondary region and three availability zones.
Data storage costs must be minimized.
Azure Database for PostgreSQL
The database connection string is stored in Azure Key Vault with the following attributes:
Azure Key Vault name: cpandlkeyvault
Secret name: PostgreSQLConn
Id: 80df3e46ffcd4f1cb187f79905e9a1e8
The connection information is updated frequently. The application must always use the latest information to connect to the database.
Azure Service Bus and Azure Event Grid
Azure Event Grid must use Azure Service Bus for queue-based load leveling.
Events in Azure Event Grid must be routed directly to Service Bus queues for use in buffering.
Events from Azure Service Bus and other Azure services must continue to be routed to Azure Event Grid for processing.
Security
All SSL certificates and credentials must be stored in Azure Key Vault.
File access must restrict access by IP, protocol, and Azure AD rights.
All user accounts and processes must receive only those privileges which are essential to perform their intended function.
Compliance
Auditing of the file updates and transfers must be enabled to comply with General Data Protection Regulation (GDPR). The file updates must be read-only, stored in the order in which they occurred, include only create, update, delete, and copy operations, and be retained for compliance reasons.
Issues
Corporate website
While testing the site, the following error message displays:
CryptographicException: The system cannot find the file specified.
Function app

You perform local testing for the RequestUserApproval function. The following error message displays:
'Timeout value of 00:10:00 exceeded by function: RequestUserApproval'
The same error message displays when you test the function in an Azure development environment when you run the following Kusto query:
FunctionAppLogs
| where FunctionName = = "RequestUserApproval"
Logic app
You test the Logic app in a development environment. The following error message displays:
'400 Bad Request'
Troubleshooting of the error shows an HttpTrigger action to call the RequestUserApproval function.
Code
Corporate website
Security.cs:

```
SC01 public class Security
SC02 {
SC03 var bytes = System.IO.File.ReadAllBytes("~/var/ssl/private");
SC04 var cert = new System.Security.Cryptography.X509Certificate2(bytes);
SC05 var certName = cert.FriendlyName;
SC06 }
```

Function app
RequestUserApproval.cs:

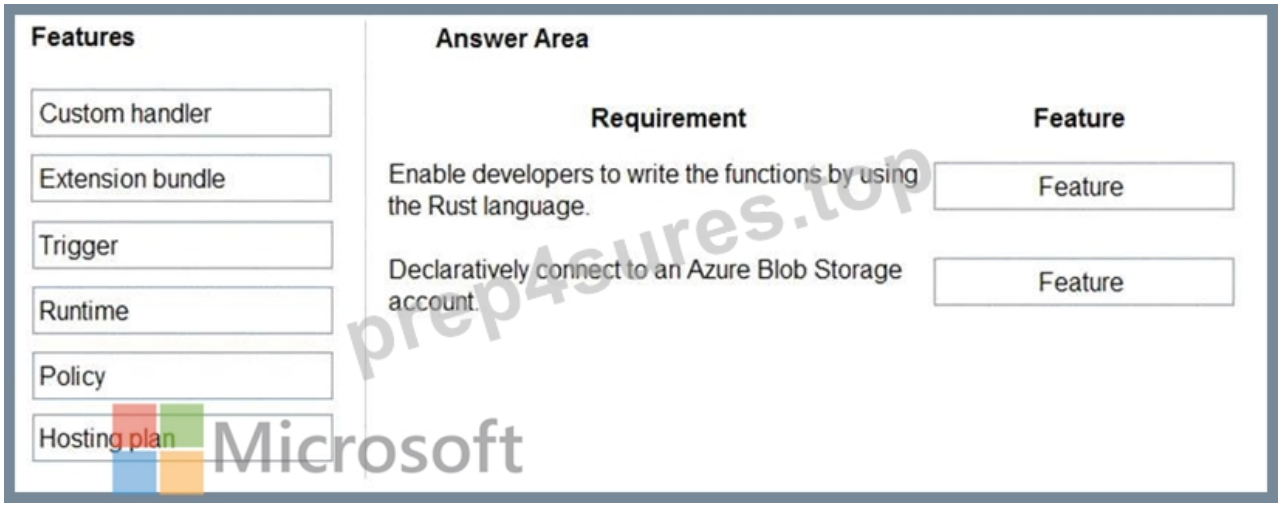
```
RA01 public static class RequestUserApproval
RA02 {
RA03 [FunctionName("RequestUserApproval")]
RA04 public static async Task<IActionResult> Run(
RA05 [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)] HttpRequest req,
ILogger log)
RA06 {
RA07    log.LogInformation("RequestUserApproval function processed a request.");
RA08 ...
RA09 return ProcessRequest(req)
RA10    ? (ActionResult)new OkObjectResult($"User approval processed")
RA11    : new BadRequestObjectResult("Failed to process user approval");
RA12 }
RA13 private static bool ProcessRequest(HttpRequest req)
RA14 {
RA15    ...
RA16 }
RA17 }
```

NEW QUESTION # 144
You need to test the availability of the corporate website.
Which two test types can you use?

- A. Standard
- B. URL Ping
- C. Multi-step
- D. Custom testing using the TrackAvailability API method

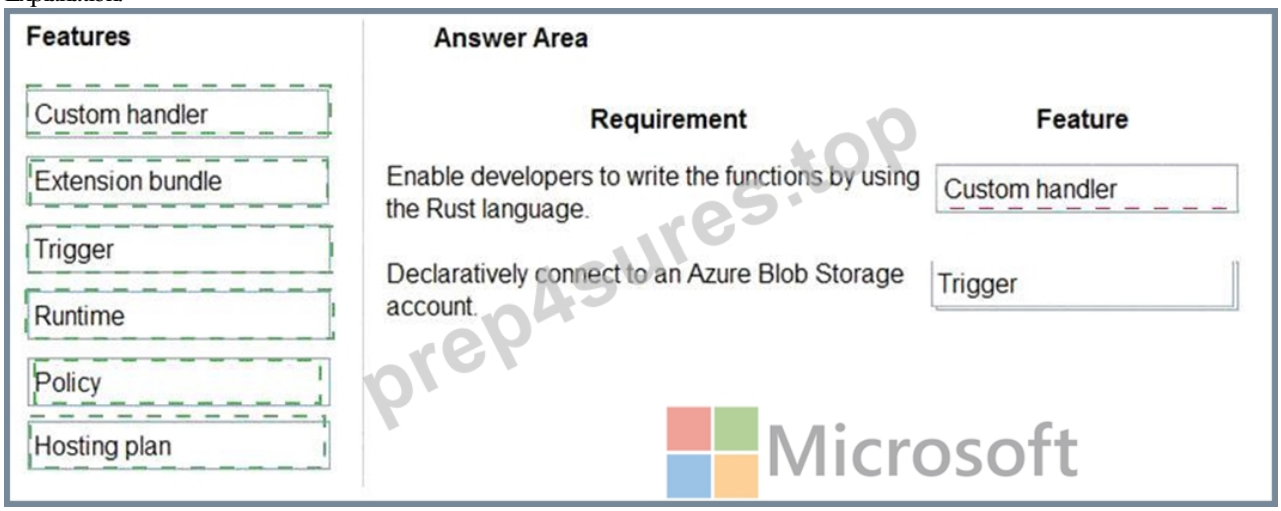
Answer: B,D

NEW QUESTION # 145
You are developing an Azure Function app.
The app must meet the following requirements:
* Enable developers to write the functions by using the Rust language.
* Declaratively connect to an Azure Blob Storage account.
You need to implement the app.
Which Azure Function app features should you use? To answer, drag the appropriate features to the correct requirements. Each feature may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



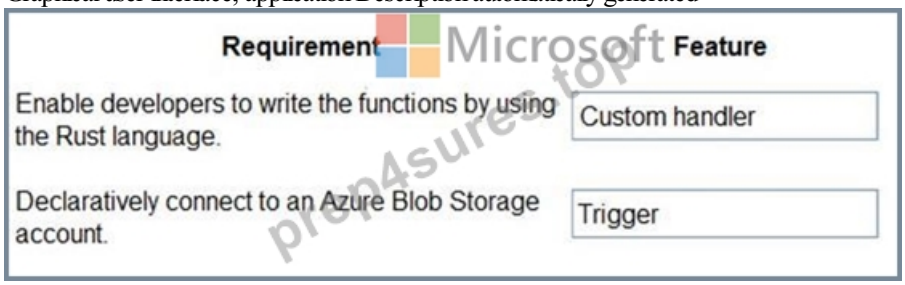
Answer:

Explanation:



Explanation

Graphical user interface, application Description automatically generated



Box 1: Custom handler

Custom handlers can be used to create functions in any language or runtime by running an HTTP server process, for example Go or Rust.

Box 2: Trigger

Functions are invoked by a trigger and can have exactly one. In addition to invoking the function, certain triggers also serve as bindings. You may also define multiple bindings in addition to the trigger. Bindings provide a declarative way to connect data to your code.

Reference:

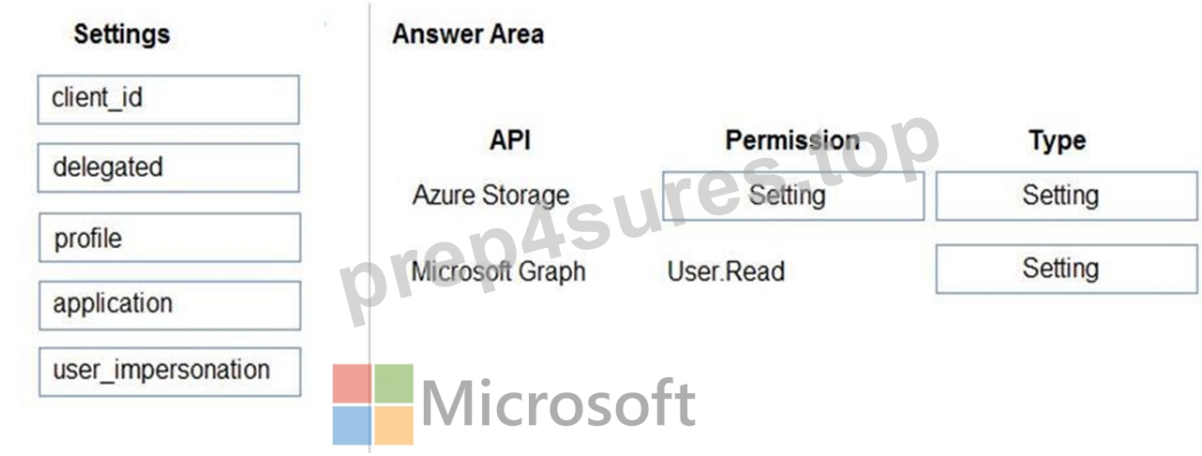
https://docs.microsoft.com/en-us/azure/azure-functions/create-first-function-vs-code-other

https://docs.microsoft.com/en-us/dotnet/architecture/serverless/azure-functions

NEW QUESTION # 146

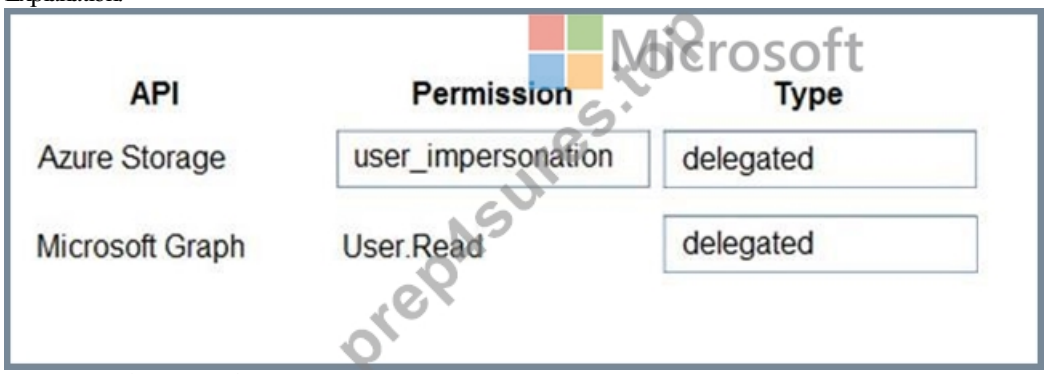
You are developing an ASP.NET Core website that can be used to manage photographs which are stored in Azure Blob Storage containers.

Users of the website authenticate by using their Azure Active Directory (Azure AD) credentials.
You implement role-based access control (RBAC) role permission on the containers that store photographs.
You assign users to RBAC role.
You need to configure the website's Azure AD Application so that user's permissions can be used with the Azure Blob containers.
How should you configure the application? To answer, drag the appropriate setting to the correct location.
Each setting may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Box 1: user_impersonation
Box 2: delegated
Example:
1.Select the API permissions section
2.Click the Add a permission button and then:
Ensure that the My APIs tab is selected
3.In the list of APIs, select the API TodoListService-aspnetcore.
4.In the Delegated permissions section, ensure that the right permissions are checked: user_impersonation.
5.Select the Add permissions button.
Box 3: delegated
Example
1.Select the API permissions section
2.Click the Add a permission button and then,
Ensure that the Microsoft APIs tab is selected
3.In the Commonly used Microsoft APIs section, click on Microsoft Graph
4.In the Delegated permissions section, ensure that the right permissions are checked: User.Read. Use the search box if necessary.
5.Select the Add permissions button
References:
https://docs.microsoft.com/en-us/samples/azure-samples/active-directory-dotnet-webapp-webapi-openidconnect-

NEW QUESTION # 147

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