

100% Pass AZ-204 - Developing Solutions for Microsoft Azure Perfect Exam Sample Questions

Exam AZ-204: Developing Solutions for Microsoft Azure

Study guide for Exam AZ-204: Developing Solutions for Microsoft Azure

Purpose of this document

This study guide should help you understand what to expect on the exam and includes a summary of the topics the exam might cover and links to additional resources. The information and materials in this document should help you focus your studies as you prepare for the exam.

Useful links	Description
Review the skills measured as of April 18, 2023	This list represents the skills measured AFTER the date provided. Study this list if you plan to take the exam AFTER that date.
Review the skills measured prior to April 18, 2023	Study this list of skills if you take your exam PRIOR to the date provided.
Change log	You can go directly to the change log if you want to see the changes that will be made on the date provided.
How to earn the certification	Some certifications only require passing one exam, while others require passing multiple exams.
Certification renewal	Microsoft associate, expert, and specialty certifications expire annually. You can renew by passing a free online assessment on Microsoft Learn.
Your Microsoft Learn profile	Connecting your certification profile to Microsoft Learn allows you to schedule and renew exams and share and print certificates.
Exam scoring and score reports	A score of 700 or greater is required to pass.
Exam sandbox	You can explore the exam environment by visiting our exam sandbox.
Request accommodations	If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an accommodation.



1

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The AZ-204 test materials are mainly through three learning modes, Pdf, Online and software respectively. Among them, the software model is designed for computer users, can let users through the use of Windows interface to open the AZ-204 test prep of learning. It is convenient for the user to read. The AZ-204 test materials have a biggest advantage that is different from some online learning platform which has using terminal number limitation, the AZ-204 Quiz torrent can meet the client to log in to learn more, at the same time, the user can be conducted on multiple computers online learning, greatly reducing the time, and people can use the machine online of AZ-204 test prep more conveniently at the same time. As far as concerned, the online mode for mobile phone clients has the same function.

Microsoft AZ-204 Exam Syllabus Topics:

Section	Weight	Objectives

Topic 1: Develop for Azure Storage (15-20%)	15-20%	- Develop solutions using Azure Queue Storage • 1. Implement message encoding and decoding • 2. Implement Azure Queue Storage client library • 3. Implement Azure Queue Storage triggers - Develop solutions using Azure Table Storage • 1. Implement partitioning and routing • 2. Implement table entity queries • 3. Implement Azure Table Storage client library - Develop solutions using Azure Files • 1. Implement Azure File Storage client library • 2. Implement file share snapshot operations • 3. Configure Azure Files shares and access tiers - Develop solutions using Azure Blob Storage • 1. Implement Azure Blob Storage client library • 2. Configure blob service lifecycle policies • 3. Implement client-side encryption • 4. Configure and manage blob storage tiers • 5. Implement lease and concurrency management
Topic 2: Implement Azure Security (20-25%)	20-25%	- Implement managed identity • 1. Access Azure Key Vault using managed identities • 2. Configure managed identities for Azure resources • 3. Implement user-assigned managed identities • 4. Implement service-assigned managed identities - Implement user authentication and authorization • 1. Implement Microsoft Identity Platform • 2. Implement authentication with MSAL • 3. Implement OAuth 2.0 authorization flows • 4. Implement authorization with Microsoft Graph - Implement access control and secure data solutions • 1. Implement shared access signatures • 2. Implement Azure Key Vault • 3. Implement Azure AD Privileged Identity Management • 4. Implement Azure RBAC permissions

Topic 3: Implement Azure Compute Solutions (25-30%)	25-30%	- Implement containerized solutions • 1. Configure Azure Container Instances • 2. Implement authentication and authorization • 3. Create and configure Azure Container Apps • 4. Debug containerized solutions • 5. Create and manage container images • 6. Configure message-based integration - Implement Azure Functions • 1. Create and configure Azure Functions apps • 2. Implement authentication and authorization • 3. Implement Azure Functions scaling • 4. Implement input and output bindings • 5. Implement triggers and determinants - Implement Azure App Service Web Apps • 1. Create and configure Azure App Service plans • 2. Configure custom domains and SSL • 3. Create and deploy Azure App Service web apps • 4. Implement monitoring and troubleshooting • 5. Configure authentication and authorization
Topic 4: Connect to and Consume Azure Services and Third-Party Services (15-20%)	15-20%	- Develop event-based solutions • 1. Implement Azure Event Grid • 2. Process messages from Azure Event Hubs • 3. Implement Azure Event Hubs - Implement API Management • 1. Configure API policies • 2. Implement authentication for APIs • 3. Implement API Gateway solutions • 4. Create and manage API Management instances - Develop message-based solutions • 1. Implement Azure Service Bus queues • 2. Implement Azure Service Bus topics and subscriptions • 3. Implement Azure Queue Storage queues

Topic 5: Instrument Solutions to Support Monitoring and Logging (10-15%)	10-15%	- Configure and implement Application Insights • 1. Implement custom telemetry • 2. Implement dependencies tracking • 3. Create and configure Application Insights instances • 4. Implement distributed tracing - Implement monitoring and logging • 1. Troubleshoot solutions using Azure Monitor • 2. Implement Azure Service Health • 3. Implement Azure Log Analytics • 4. Configure Azure Monitor alerts and action groups
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Microsoft Developing Solutions for Microsoft Azure Sample Questions (Q169-Q174):

NEW QUESTION # 169

You are building a traffic monitoring system that monitors traffic along six highways. The system produces time series analysis-based reports for each highway. Data from traffic sensors are stored in Azure Event Hub.

Traffic data is consumed by four departments. Each department has an Azure Web App that displays the time-series-based reports and contains a WebJob that processes the incoming data from Event Hub. All Web Apps run on App Service Plans with three instances.

Data throughout must be maximized. Latency must be minimized.

You need to implement the Azure Event Hub.

Which settings should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Setting	Value
Number of partitions	▼ 3 4 6 12
Partition Key	▼ Highway Department Timestamp VM name

Answer:

Explanation:

Setting	Value
Number of partitions	▼ 3 4 6 12
Partition Key	▼ Highway Department Timestamp VM name

References:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features>

NEW QUESTION # 170

You are developing a web application that makes calls to the Microsoft Graph API. You register the application in the Azure portal and upload a valid X509 certificate.

You create an appsettings.json file containing the certificate name, client identifier for the application, and the tenant identifier of the Azure active Directory (Azure AD). You create a method named ReadCertificate to return the X509 certificate by name.

You need to implement code that acquires a token by using the certificate.

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.



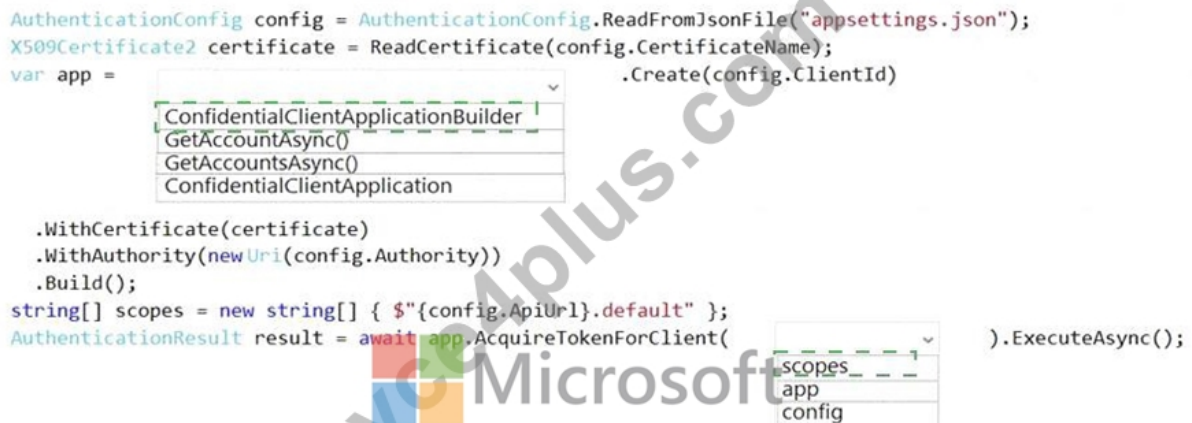
```

AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app = ConfidentialClientApplicationBuilder
    .Create(config.ClientId)
    .WithCertificate(certificate)
    .WithAuthority(new Uri(config.Authority))
    .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(
    scopes
    app
    config
    ).ExecuteAsync();

```

Answer:

Explanation:



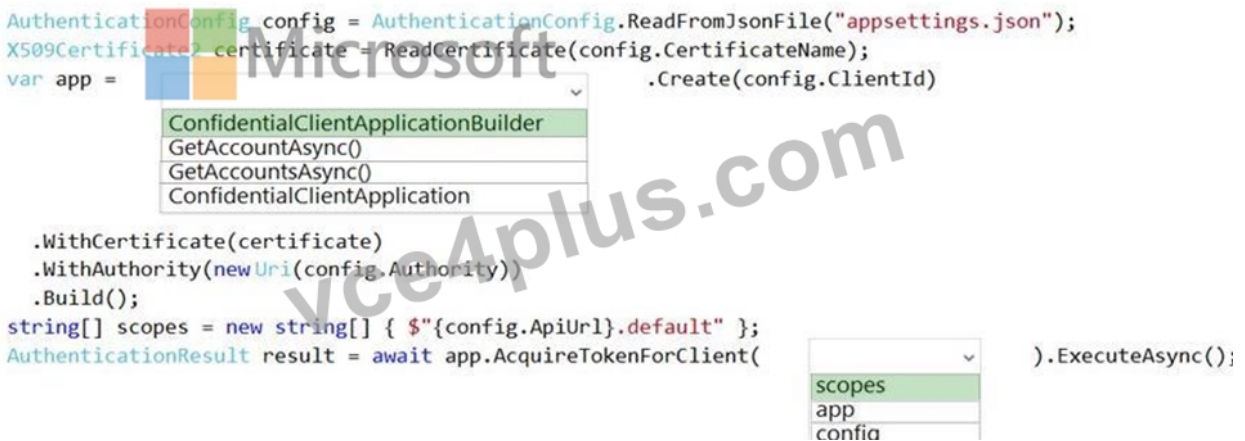
```

AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app = ConfidentialClientApplicationBuilder
    .Create(config.ClientId)
    .WithCertificate(certificate)
    .WithAuthority(new Uri(config.Authority))
    .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(
    scopes
    app
    config
    ).ExecuteAsync();

```

Explanation

Graphical user interface, text, application, email Description automatically generated



```

AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app = ConfidentialClientApplicationBuilder
    .Create(config.ClientId)
    .WithCertificate(certificate)
    .WithAuthority(new Uri(config.Authority))
    .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(
    scopes
    app
    config
    ).ExecuteAsync();

```

<https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-app-configuration?tabs=dotnet>
<https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-acquire-token?tabs=dotnet#ac>

NEW QUESTION # 171

Hotspot Question

You have an Azure Cosmos DB for NoSQL API account named account1. Multiple instances of an on-premises application named app1 read data from account1.

You plan to implement integrated cache for connections from the instances of app to account1.

You need to set the connection mode and maximum consistency level of app1.

Which values should you use for the configuration settings? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Connectivity mode and consistency level settings

Configuration setting	Value
Connectivity mode	direct mode gateway mode using standard gateway gateway mode using dedicated gateway
Consistency level	strong session eventual

Answer:

Explanation:

Answer Area

Connectivity mode and consistency level settings

Configuration setting	Value
Connectivity mode	direct mode gateway mode using standard gateway gateway mode using dedicated gateway
Consistency level	strong session eventual

NEW QUESTION # 172

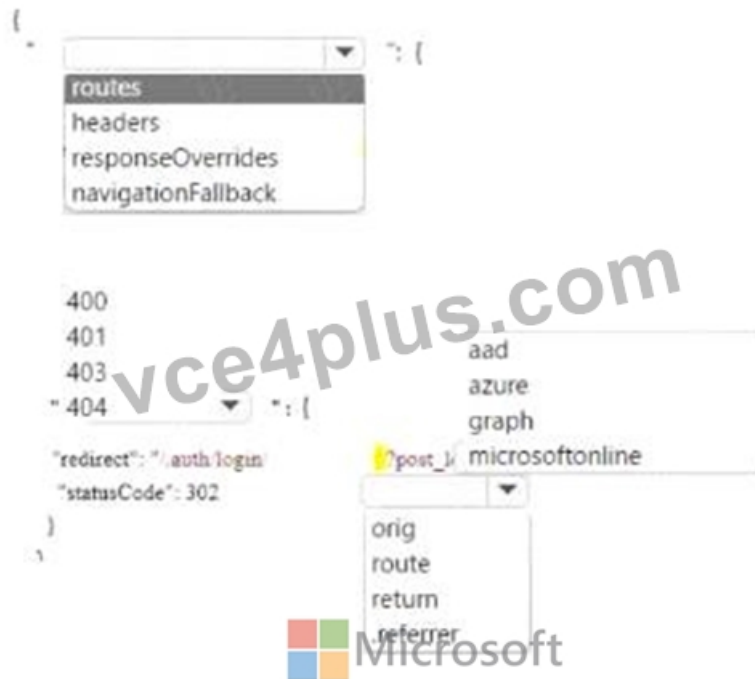
You are developing an Azure Static Web app that contains training materials for a tool company. Each tool's training material is contained in a static web page that is linked from the tool's publicly available description page.

A user must be authenticated using Azure AD prior to viewing training.

You need to ensure that the user can view training material pages after authentication.

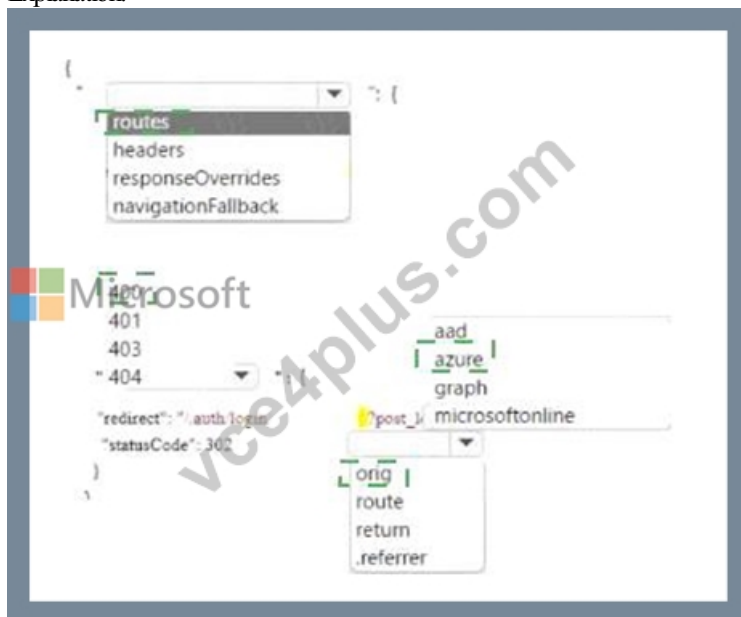
How should you complete the configuration file? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



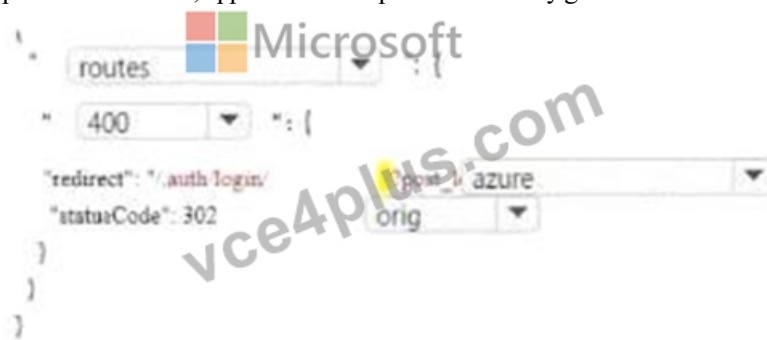
Answer:

Explanation:



Explanation

Graphical user interface, application Description automatically generated



NEW QUESTION # 173

You are developing a web service that will run on Azure virtual machines that use Azure Storage. You configure all virtual machines to use managed identities.

You have the following requirements:

Secret-based authentication mechanisms are not permitted for accessing an Azure Storage account.

Must use only Azure Instance Metadata Service endpoints.

You need to write code to retrieve an access token to access Azure Storage. To answer, drag the appropriate code segments to the correct locations. Each code segment may be used 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.

Code segment 1	Answer Area
http://localhost:50342/oauth2/token http://169.254.169.254:50432/oauth2/token http://localhost/metadata/identity/oauth2/token http://169.254.169.254/metadata/identity/oauth2/token	<pre>var url = "Code segment 1" ; var queryString = "..."; var client = new HttpClient(); var response = await client.GetAsync(url + queryString); var payload = await response.Content.ReadAsStringAsync(); return Code segment 2</pre>

Code segment 2

XDocument.Parse(payload);

new MultipartContent(payload);

new NetworkCredential("Azure", payload);

JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);

 Microsoft

Answer:

Explanation:

Code segment 1	Answer Area
http://localhost:50342/oauth2/token http://169.254.169.254:50432/oauth2/token http://localhost/metadata/identity/oauth2/token http://169.254.169.254/metadata/identity/oauth2/token	<pre>var url = "http://169.254.169.254/metadata/identity/oauth2/token" ; var queryString = "..."; var client = new HttpClient(); var response = await client.GetAsync(url + queryString); var payload = await response.Content.ReadAsStringAsync(); return JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);</pre>

Code segment 2

XDocument.Parse(payload);

new MultipartContent(payload);

new NetworkCredential("Azure", payload);

JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);

Explanation

```
var url = "http://169.254.169.254/metadata/identity/oauth2/token" ;  
  
var queryString = "...";  
var client = new HttpClient();  
var response = await client.GetAsync(url + queryString);  
var payload = await response.Content.ReadAsStringAsync();  
  
return JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);
```

Azure Instance Metadata Service endpoints "/oauth2/token"

Box

1: http://169.254.169.254/metadata/identity/oauth2/token

<https://docs.microsoft.com/en-us/azure/service-fabric/how-to-managed-identity-service-fabric-app-code>

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