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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.



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Microsoft AZ-204 Exam Syllabus Topics:

Section

Weight

Objectives

Topic 1: Implement Azure Compute Solutions (25-30%)	25-30%	- Implement Azure Functions • 1. Implement triggers and determinants • 2. Create and configure Azure Functions apps • 3. Implement authentication and authorization • 4. Implement Azure Functions scaling • 5. Implement input and output bindings - Implement Azure App Service Web Apps • 1. Create and configure Azure App Service plans • 2. Create and deploy Azure App Service web apps • 3. Configure authentication and authorization • 4. Configure custom domains and SSL • 5. Implement monitoring and troubleshooting - Implement containerized solutions • 1. Debug containerized solutions • 2. Configure message-based integration • 3. Implement authentication and authorization • 4. Create and configure Azure Container Apps • 5. Create and manage container images • 6. Configure Azure Container Instances - Implement monitoring and logging • 1. Implement Azure Service Health • 2. Implement Azure Log Analytics • 3. Configure Azure Monitor alerts and action groups • 4. Troubleshoot solutions using Azure Monitor - Configure and implement Application Insights • 1. Implement distributed tracing • 2. Create and configure Application Insights instances • 3. Implement custom telemetry • 4. Implement dependencies tracking
Topic 2: Instrument Solutions to Support Monitoring and Logging (10-15%)	10-15%	

Topic 3: Connect to and Consume Azure Services and Third-Party Services (15-20%)	15-20%	- Develop event-based solutions • 1. Implement Azure Event Grid • 2. Implement Azure Event Hubs • 3. Process messages from Azure Event Hubs - Implement API Management • 1. Configure API policies • 2. Implement authentication for APIs • 3. Create and manage API Management instances • 4. Implement API Gateway solutions - Develop message-based solutions • 1. Implement Azure Service Bus queues • 2. Implement Azure Service Bus topics and subscriptions • 3. Implement Azure Queue Storage queues - Implement managed identity • 1. Implement service-assigned managed identities • 2. Implement user-assigned managed identities • 3. Configure managed identities for Azure resources • 4. Access Azure Key Vault using managed identities
Topic 4: Implement Azure Security (20-25%)	20-25%	- Implement access control and secure data solutions • 1. Implement Azure Key Vault • 2. Implement shared access signatures • 3. Implement Azure RBAC permissions • 4. Implement Azure AD Privileged Identity Management - Implement user authentication and authorization • 1. Implement authorization with Microsoft Graph • 2. Implement Microsoft Identity Platform • 3. Implement OAuth 2.0 authorization flows • 4. Implement authentication with MSAL

Topic 5: Develop for Azure Storage (15-20%)	15-20%	- Develop solutions using Azure Files
		1. Configure Azure Files shares and access tiers 2. Implement file share snapshot operations 3. Implement Azure File Storage client library
		- Develop solutions using Azure Blob Storage
		1. Configure blob service lifecycle policies 2. Implement client-side encryption 3. Implement Azure Blob Storage client library 4. Implement lease and concurrency management 5. Configure and manage blob storage tiers
		- Develop solutions using Azure Queue Storage
		1. Implement Azure Queue Storage client library 2. Implement message encoding and decoding 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

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Microsoft Developing Solutions for Microsoft Azure Sample Questions (Q383-Q388):

NEW QUESTION # 383

You are developing an application that use an Azure blob named data to store application data. The application creates blob snapshots to allow application state to be reverted to an earlier state. The Azure storage account has soft deleted enabled.

The system performs the following operations in order:

- *The blob is updated
- *Snapshot 1 is created.
- *Snapshot 2 is created.
- *Snapshot 1 is deleted.

A system error then deletes the data blob and all snapshots.

You need to determine which application states can be restored.

What is the restorability of the application data? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Application State	Restorability
Data blob	▼ Can be restored Cannot be restored
Snapshot 1	▼ Can be restored Cannot be restored
Snapshot 2	▼ Can be restored Cannot be restored

Answer:

Explanation:

Application State	Restorability
Data blob	▼ Can be restored Cannot be restored
Snapshot 1	▼ Can be restored Cannot be restored
Snapshot 2	▼ Can be restored Cannot be restored

Explanation:

Application State Restorability

Data blob	Can be restored Cannot be restored
Snapshot 1	Can be restored Cannot be restored
Snapshot 2	Can be restored Cannot be restored

Box 1: Can be restored

When enabled, soft delete enables you to save and recover your data when blobs or blob snapshots are deleted. This protection extends to blob data that is erased as the result of an overwrite.

Box 2: Cannot be restored

It has been deleted.

Box 3: Can be restored

It has not been deleted.

References:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-soft-delete>

NEW QUESTION # 384

You deploy an ASP.NET web app to Azure App Service.

You must monitor the web app by using Application Insights.

You need to configure Application Insights to meet the requirements.

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

NOTE: Each correct selection is worth one point.

Requirement	Feature
Automatically warn you of potential performance problems and failure anomalies in the web app.	Smart Detection Smart Detection Snapshot Debugger Profiler Multi-step test
Automatically collect the state of the source code and variables when an exception is thrown in the web app.	Snapshot Debugger Smart Detection Snapshot Debugger Profiler Multi-step test
Capture performance traces of the web app without negatively affecting users of the web app.	Profiler Smart Detection Snapshot Debugger Profiler Multi-step test

Answer:

Explanation:

Requirement	Feature
Automatically warn you of potential performance problems and failure anomalies in the web app.	Smart Detection
Automatically collect the state of the source code and variables when an exception is thrown in the web app.	Snapshot Debugger
Capture performance traces of the web app without negatively affecting users of the web app.	Profiler

Explanation:

Answer Area

Requirement	Feature
Automatically warn you of potential performance problems and failure anomalies in the web app.	Smart Detection
Automatically collect the state of the source code and variables when an exception is thrown in the web app.	Snapshot Debugger
Capture performance traces of the web app without negatively affecting users of the web app.	Profiler

NEW QUESTION # 385

Hotspot Question

You plan to implement an Azure function named Function1 that will use the timer trigger.

You plan to use a TimeSpan value to set the schedule of function execution.

You need to select the hosting model and the schedule expression assignment method.

Which hosting model and schedule expression assignment method should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Function configuration

Function configuration option	Value
Hosting model	Consumption App Service plan Azure Arc-enabled Kubernetes
Schedule expression assignment	App settings host.json file function.json file

Answer:

Explanation:

Function configuration

Function configuration option	Value
Hosting model	Consumption App Service plan Azure Arc-enabled Kubernetes
Schedule expression assignment	App settings host.json file function.json file

Microsoft

Explanation:

A TimeSpan can be used only for a function app that runs on an App Service Plan. You can put the schedule expression in an app setting and set this property to the app setting name wrapped in % signs, as %ScheduleAppSetting%.

<https://learn.microsoft.com/en-us/azure/azure-functions/functions-bindings-timer?tabs=python-v2%2Cisolated-process%2Cnodejs-v4&pivots=programming-language-csharp#attributes>

NEW QUESTION # 386

You are developing an Azure solution.

You need to develop code to access a secret stored in Azure Key Vault.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct locations. Each code segment 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.

Code segments	Answer Area
DefaultAzureCredential	<pre>string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI"); var var2 = new Code segment (new Uri(var1), new Code segment ());</pre>
ClientSecretCredential	
CloudClients	
SecretClient	

Microsoft

Answer:

Explanation:

Code segments	Answer Area
DefaultAzureCredential	<pre>string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI"); var var2 = new SecretClient (new Uri(var1), new DefaultAzureCredential ());</pre>
ClientSecretCredential	
CloudClients	
SecretClient	

Microsoft

Explanation:

```
string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");
var var2 = new SecretClient ( new Uri(var1), new DefaultAzureCredential ());
```

Box 1: SecretClient

Box 2: DefaultAzureCredential

In below example, the name of your key vault is expanded to the key vault URI, in the format "https://<your- key-vault-name>.vault.azure.net". This example is using 'DefaultAzureCredential()' class from Azure Identity Library, which allows to use the same code across different environments with different options to provide identity.

string keyVaultName = Environment.GetEnvironmentVariable("KEY_VAULT_NAME"); var kvUri = "https://" + keyVaultName + ".vault.azure.net"; var client = new SecretClient(new Uri(kvUri), new DefaultAzureCredential()); Reference:

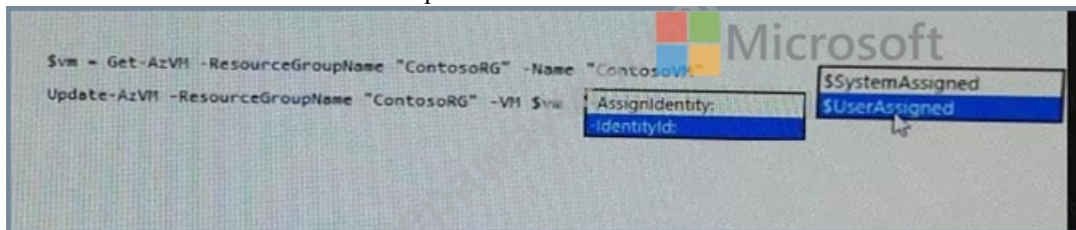
<https://docs.microsoft.com/en-us/azure/key-vault/secrets/quick-create-net>

NEW QUESTION # 387

You are developing an application that needs access to an Azure virtual machine (VM). The access lifecycle for the application must be associated with the VM service instance. You need to enable managed identity for the VM.

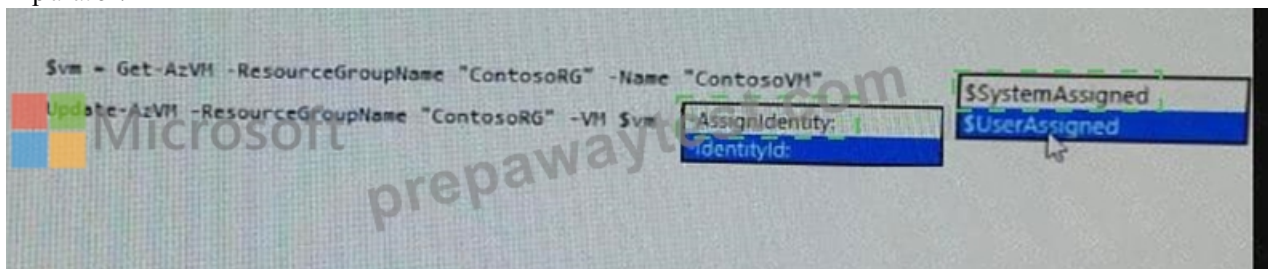
How should you complete the PowerShell segment? To answer, select the appropriate options in the answer area.

NOTE Each correct selection is worth one point.



Answer:

Explanation:



Explanation:

\$vm = Get-AzVM -ResourceGroupName myResourceGroup -Name myVM

Update-AzVM -ResourceGroupName myResourceGroup -VM \$vm -AssignIdentity:\$SystemAssigned

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/qs-configure-powershell-windows-vm>

NEW QUESTION # 388

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