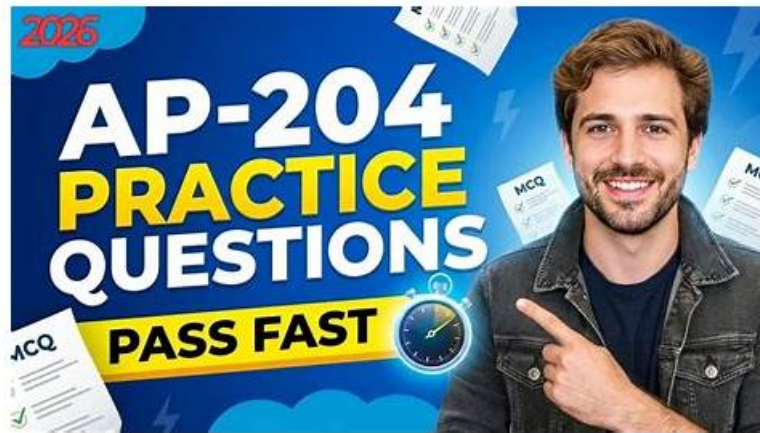


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Microsoft Developing Solutions for Microsoft Azure Sample Questions (Q198-Q203):

NEW QUESTION # 198

You are creating a hazard notification system that has a single signaling server which triggers audio and visual alarms to start and stop.

You implement Azure Service Bus to publish alarms. Each alarm controller uses Azure Service Bus to receive alarm signals as part of a transaction. Alarm events must be recorded for audit purposes. Each transaction record must include information about the alarm type that was activated.

You need to implement a reply trail auditing solution.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Assign the value of the hazard message SessionID property to the ReplyToSessionId property.
- B. Assign the value of the hazard message SequenceNumber property to the DeliveryCount property.
- C. Assign the value of the hazard message SessionID property to the SequenceNumber property.
- D. Assign the value of the hazard message MessageId property to the DeliveryCount property.
- E. Assign the value of the hazard message MessageId property to the SequenceNumber property.
- F. Assign the value of the hazard message MessageId property to the CorrelationId property.

Answer: A,F

NEW QUESTION # 199

You need to monitor ContentUploadService according to the requirements.
Which command should you use?

- A. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "CPU Usage > 8"
- B. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "avg Percentage CPU > 800"
- C. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "avg Percentage CPU > 8"
- D. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "CPU Usage > 800"

Answer: B

Explanation:

Explanation

Scenario: An alert must be raised if the ContentUploadService uses more than 80 percent of available CPU-cores Reference: <https://docs.microsoft.com/sv-se/cli/azure/monitor/metrics/alert>

Topic 1, Contoso, Ltd

Case study

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 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 Background Overview You are a developer for Contoso, Ltd. The company has a social networking website that is developed as a Single Page Application (SPA).

The main web application for the social networking website loads user uploaded content from blob storage.

You are developing a solution to monitor uploaded data for inappropriate content. The following process occurs when users upload content by using the SPA:

* Messages are sent to ContentUploadService.

* Content is processed by ContentAnalysisService.

* After processing is complete, the content is posted to the social network or a rejection message is posted in its place.

The ContentAnalysisService is deployed with Azure Container Instances from a private Azure Container Registry named contosoimages.

The solution will use eight CPU cores.

Azure Active Directory

Contoso, Ltd. uses Azure Active Directory (Azure AD) for both internal and guest accounts.

Requirements

ContentAnalysisService

The company's data science group built ContentAnalysisService which accepts user generated content as a string and returns a probable value for inappropriate content. Any values over a specific threshold must be reviewed by an employee of Contoso, Ltd.

You must create an Azure Function named CheckUserContent to perform the content checks.

Costs

You must minimize costs for all Azure services.

Manual review

To review content, the user must authenticate to the website portion of the ContentAnalysisService using their Azure AD credentials.

The website is built using React and all pages and API endpoints require authentication.

In order to review content a user must be part of a ContentReviewer role. All completed reviews must include the reviewer's email address for auditing purposes.

High availability

All services must run in multiple regions. The failure of any service in a region must not impact overall application availability.

Monitoring

An alert must be raised if the ContentUploadService uses more than 80 percent of available CPU cores.

Security

You have the following security requirements:

- * Any web service accessible over the Internet must be protected from cross site scripting attacks.
- * All websites and services must use SSL from a valid root certificate authority.
- * Azure Storage access keys must only be stored in memory and must be available only to the service.
- * All Internal services must only be accessible from internal Virtual Networks (VNETs).
- * All parts of the system must support inbound and outbound traffic restrictions.
- * All service calls must be authenticated by using Azure AD.

User agreements

When a user submits content, they must agree to a user agreement. The agreement allows employees of Contoso, Ltd. to review content, store cookies on user devices, and track user's IP addresses.

Information regarding agreements is used by multiple divisions within Contoso, Ltd.

User responses must not be lost and must be available to all parties regardless of individual service uptime.

The volume of agreements is expected to be in the millions per hour.

Validation testing

When a new version of the ContentAnalysisService is available the previous seven days of content must be processed with the new version to verify that the new version does not significantly deviate from the old version.

Issues

Users of the ContentUploadService report that they occasionally see HTTP 502 responses on specific pages.

Code

ContentUploadService

□

NEW QUESTION # 200

You plan to create a Docker image that runs as ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- * Call setupScript.ps1 when the container is built.
- * Run ContosoApp.dll when the container starts.

The Docker document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which four commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

□

Answer:

Explanation:

□

1 - WORKDIR /apps/ContosoApp

2 - COPY ./-

3 - EXPOSE ./ContosoApp /app/ContosoApp

4 - CMD powershell ./setupScript.ps1 ENTRYPOINT ["dotnet", "ContosoApp.dll"] Reference:

<https://docs.microsoft.com/en-us/azure/app-service/containers/tutorial-custom-docker-image>

NEW QUESTION # 201

You need to ensure that PolicyLib requirements are met.

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.

□

Answer:

Explanation:

□

Explanation

Scenario: You have a shared library named PolicyLib that contains functionality common to all ASP.NET Core web services and applications. The PolicyLib library must:

- * Exclude non-user actions from Application Insights telemetry.
- * Provide methods that allow a web service to scale itself.
- * Ensure that scaling actions do not disrupt application usage.

Box 1: ITelemetryInitializer

Use telemetry initializers to define global properties that are sent with all telemetry; and to override selected behavior of the standard telemetry modules.

Box 2: Initialize

Box 3: Telemetry.Context

Box 4: ((EventTelemetry)telemetry).Properties["EventID"]

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/api-filtering-sampling>

Topic 5, Litware Inc

Case study

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Background

You are a developer for Litware Inc., a SaaS company that provides a solution for managing employee expenses. The solution consists of an ASP.NET Core Web API project that is deployed as an Azure Web App.

Overall architecture

Employees upload receipts for the system to process. When processing is complete, the employee receives a summary report email that details the processing results. Employees then use a web application to manage their receipts and perform any additional tasks needed for reimbursement.

Receipt processing

Employees may upload receipts in two ways:

- * Uploading using an Azure Files mounted folder
- * Uploading using the web application

Data Storage

Receipt and employee information is stored in an Azure SQL database.

Documentation

Employees are provided with a getting started document when they first use the solution. The documentation includes details on supported operating systems for Azure File upload, and instructions on how to configure the mounted folder.

Solution details

Users table

Web Application

You enable MSI for the Web App and configure the Web App to use the security principal name WebAppIdentity.

Processing

Processing is performed by an Azure Function that uses version 2 of the Azure Function runtime. Once processing is completed, results are stored in Azure Blob Storage and an Azure SQL database. Then, an email summary is sent to the user with a link to the processing report. The link to the report must remain valid if the email is forwarded to another user.

Logging

Azure Application Insights is used for telemetry and logging in both the processor and the web application.

The processor also has TraceWriter logging enabled. Application Insights must always contain all log messages.

Requirements

Receipt processing

Concurrent processing of a receipt must be prevented.

Disaster recovery

Regional outage must not impact application availability. All DR operations must not be dependent on application running and must

ensure that data in the DR region is up to date.

Security

- * User's SecurityPin must be stored in such a way that access to the database does not allow the viewing of SecurityPins. The web application is the only system that should have access to SecurityPins.
- * All certificates and secrets used to secure data must be stored in Azure Key Vault.
- * You must adhere to the principle of least privilege and provide privileges which are essential to perform the intended function.
- * All access to Azure Storage and Azure SQL database must use the application's Managed Service Identity (MSI).
- * Receipt data must always be encrypted at rest.
- * All data must be protected in transit.
- * User's expense account number must be visible only to logged in users. All other views of the expense account number should include only the last segment, with the remaining parts obscured.
- * In the case of a security breach, access to all summary reports must be revoked without impacting other parts of the system.

Issues

Upload format issue

Employees occasionally report an issue with uploading a receipt using the web application. They report that when they upload a receipt using the Azure File Share, the receipt does not appear in their profile. When this occurs, they delete the file in the file share and use the web application, which returns a 500 Internal Server error page.

Capacity issue

During busy periods, employees report long delays between the time they upload the receipt and when it appears in the web application.

Log capacity issue

Developers report that the number of log messages in the trace output for the processor is too high, resulting in lost log messages.

Application code

Processing.cs

Database.cs

ReceiptUploader.cs

ConfigureSSE.ps1

NEW QUESTION # 202

You have an Azure App Services Web App. Azure SQL Database instance. Azure Storage Account and an Azure Redis Cache instance in a resource group.

A developer must be able to publish code to the web app. You must grant the developer the Contributor role to the web app. You need to grant the role.

What two commands can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. az role assignment create
- B. New-AzureRmRoleAssignment
- C. az role definition create
- D. New-AzureRmRoleDefinition

Answer: A,B

Explanation:

Explanation

References:

<https://docs.microsoft.com/en-us/cli/azure/role/assignment?view=azure-cli-latest#az-role-assignment-create>

<https://docs.microsoft.com/en-us/powershell/module/azurerm.resources/new-azurermroleassignment?view=azure>

NEW QUESTION # 203

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