

Vendor: Microsoft

Exam Code: AZ-204

Exam Name: Developing Solutions for Microsoft Azure

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Testlet 2

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

CS01 apiVersion: '2018-10-01'

CS02 type: Microsoft.ContainerInstance/containerGroups



```
CS03 location : westus
                          CS04 name : contentUploadService
                          CS05 properties :
                                 containers:
                          CS06
                          CS07
                                  - name: service
                          CS08
                                       properties:
                          CS09
                                       image: contoso/contentUploadService:latest
                          CS10
                                      ports:
                          CS11
                                       - port: 80
                                         protocol: TCP
                          CS12
                          CS13
                                      resources:
                          CS14
                                       requests:
                          CS15
                                          cpw: 1.0
                                         memoryInGB: 1.5
                          CS16
                          CS17
                          CS18 ipaddress:
                               ip: 10.23.121.112
                                 ports:
                          CS20
                          CS21
                                   - port: 80
                          CS22
                                    protocol : TCP
                          CS23
                          CS24
                          CS25 networkProfile
                          CS26 id :
                          /subscriptions/98..19/resourceGroups/container/providers/Microsoft.Network/networkProfiles/subne-
AM01 {
AM02
           "id": "2b079f03-9b06-2d44-98bb-e9182901fcb6",
           "appId": "7118a7f0-b5c2-4c9d-833c-3d711396fe65",
AM03
AM04
AM05
           "createdDateTime" : "2019-12-24T06:01:44Z",
           "logoUrl" : null,
AM06
           "logoutUrl" : null,
AM07
           "name" : "ContentAnalysisService",
80MA
AM09
AM10
AM11
           "orgRestrictions" : [],
AM12
           "parentalControlSettings" : {
            "countriesBlockedForMinors" : [],
AM13
```

QUESTION 6

AM14 AM15

AM16 AM17 }

You need to configure the ContentUploadService deployment.

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

"passwordCredentials" : []

"legalAgeGroupRule" : "Allow"

NOTE: Each correct selection is worth one point.

A. Add the following markup to line CS23: types: Private

B. Add the following markup to line CS24:

},

osType: Windows

C. Add the following markup to line CS24:

osType: Linux

D. Add the following markup to line CS23:

types: Public Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:
Scenario: All Internal services must only be accessible from Internal Virtual Networks (VNets)

There are three Network Location types – Private, Public and Domain

Reference:

 $\underline{https://devblogs.microsoft.com/powershell/setting-network-location-to-private/}$

QUESTION 7

You need to store the user agreements.



Where should you store the agreement after it is completed?

A. Azure Storage queue

B. Azure Event Hub

C. Azure Service Bus topic

D. Azure Event Grid topic

Correct Answer: B Section: [none] **Explanation**

Explanation/Reference:

Explanation:

Azure Event Hub is used for telemetry and distributed data streaming.

This service provides a single solution that enables rapid data retrieval for real-time processing as well as repeated replay of stored raw data. It can capture the streaming data into a file for processing and analysis.

It has the following characteristics:

low latency

capable of receiving and processing millions of events per second

at least once delivery

Reference:

https://docs.microsoft.com/en-us/azure/event-grid/compare-messaging-services

QUESTION 8

HOTSPOT

You need to implement the bindings for the CheckUserContent function.

1

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.

Hot Area:

Answer Area

```
public static class CheckUserContent
      [FunctionName ("CheckUserContent")]
      public static void Run (
                                                      string content,
      [QueueTrigger("userContent")]
      [BlobTrigger("userContent/{name}")]
      [CosmosDBTrigger("content", "userContent")]
      [Table("content", "userContent", "{name}")]
                                                      Stream output)
      [Queue("userContent")]
      [CosmosDB("content", "userContent")]
      [Table("content", "userContent", "{name}")]
      [Blob("userContent/{name}", FileAccess.Write)]
       }
    }
```



Answer Area

Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: [BlobTrigger(..)]

Box 2: [Blob(..)]

Azure Blob storage output binding for Azure Functions. The output binding allows you to modify and delete blob storage data in an Azure Function.

The attribute's constructor takes the path to the blob and a FileAccess parameter indicating read or write, as shown in the following example:

```
[FunctionName("ResizeImage")]
public static void Run(
  [BlobTrigger("sample-images/{name}")] Stream image,
  [Blob("sample-images-md/{name}", FileAccess.Write)] Stream imageSmall)
{
  ...
}
```

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

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.

https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-output

QUESTION 9

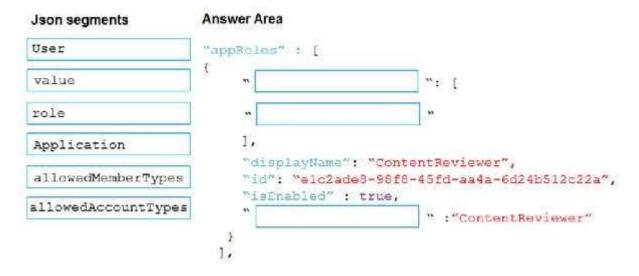
DRAG DROP

You need to add markup at line AM04 to implement the ContentReview role.

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

Select and Place:





Json segments	Answer Area	
User	"appRoles" : [
value	" allowedMemberT	Ypes ": [
role	" User	, w
Application	1,	
allowedMemberTypes	"id": "elc2ade3-	ContentReviewer", 98f8-45fd-aa4a-6d24b512c22a" ue.
allowedAccountTypes	" value	":"ContentReviewer"
allowedAccountTypes	"isEnabled" : tr " value	The second second

Section: [none] **Explanation**

Explanation/Reference:

Explanation:

Box 1: allowedMemberTypes

allowedMemberTypes specifies whether this app role definition can be assigned to users and groups by setting to "User", or to other applications (that are accessing this application in daemon service scenarios) by setting to "Application", or to both.

Note: The following example shows the appRoles that you can assign to users.

```
"appld": "8763f1c4-f988-489c-a51e-158e9ef97d6a",
"appRoles": [
    "allowedMemberTypes":
    [ "User"
   "displayName": "Writer",
   "id": "d1c2ade8-98f8-45fd-aa4a-6d06b947c66f",
   "isEnabled": true,
   "description": "Writers Have the ability to create tasks.",
   "value": "Writer"
```

"availableToOtherTenants": false,

Box 2: User

Scenario: In order to review content a user must be part of a ContentReviewer role.

Box 3: value

value specifies the value which will be included in the roles claim in authentication and access tokens.

Reference:

https://docs.microsoft.com/en-us/graph/api/resources/approle

QUESTION 10

HOTSPOT

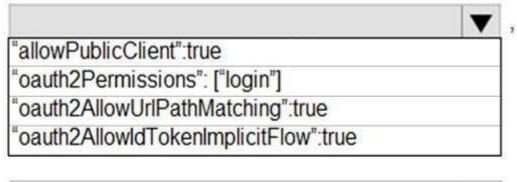
You need to add code at line AM09 to ensure that users can review content using ContentAnalysisService.

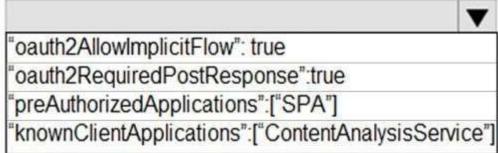
How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

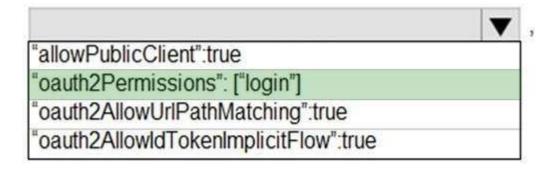
Answer Area







Answer Area



"oauth2AllowImplicitFlow": true

"oauth2RequiredPostResponse":true

"preAuthorizedApplications":["SPA"]

"knownClientApplications":["ContentAnalysisService"]

Section: [none] Explanation Explanation/Reference:

Explanation:

Box 1: "oauth2Permissions": ["login"]

oauth2Permissions specifies the collection of OAuth 2.0 permission scopes that the web API (resource) app exposes to client apps. These permission scopes may be granted to client apps during consent.

Box 2: "oauth2AllowImplicitFlow":true

For applications (Angular, Ember.js, React.js, and so on), Microsoft identity platform supports the OAuth 2.0 Implicit Grant flow.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/develop/reference-app-manifest

QUESTION 11

HOTSPOT

You need to ensure that network security policies are met.

How should you configure network security? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

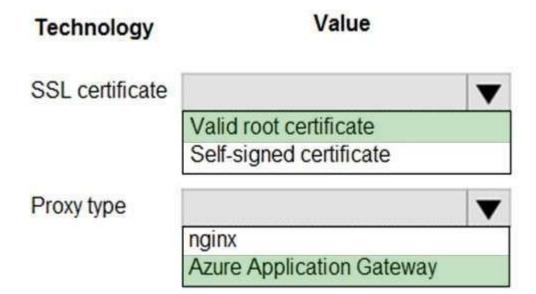
Hot Area:

Answer Area

Value	
	•
Valid root certificate	
Self-signed certificate	
	•
nginx Azure Application Gateway	
	Valid root certificate Self-signed certificate nginx



Answer Area



Section: [none] Explanation

Explanation/Reference:

Explanation:

Box 1: Valid root certificate

Scenario: All websites and services must use SSL from a valid root certificate authority.

Box 2: Azure Application Gateway

Scenario:

- Any web service accessible over the Internet must be protected from cross site
- scripting attacks. All Internal services must only be accessible from Internal Virtual Networks (VNets)
- All parts of the system must support inbound and outbound traffic restrictions.

Azure Web Application Firewall (WAF) on Azure Application Gateway provides centralized protection of your web applications from common exploits and vulnerabilities. Web applications are increasingly targeted by malicious attacks that exploit commonly known vulnerabilities. SQL injection and cross-site scripting are among the most common attacks.

Application Gateway supports autoscaling, SSL offloading, and end-to-end SSL, a web application firewall (WAF), cookie-based session affinity, URL path-based routing, multisite hosting, redirection, rewrite HTTP headers and other features.

Note: Both Nginx and Azure Application Gateway act as a reverse proxy with Layer 7 load-balancing features plus a WAF to ensure strong protection against common web vulnerabilities and exploits.

You can modify Nginx web server configuration/SSL for X-XSS protection. This helps to prevent cross-site scripting exploits by forcing the injection of HTTP headers with X-XSS protection.

Reference:

https://docs.microsoft.com/en-us/azure/web-application-

firewall/ag/ag-overview https://www.upguard.com/articles/10-tips-

for-securing-your-nginx-deployment

QUESTION 12

You need to monitor ContentUploadService accourding to the

requirements. Which command should you use?

```
A. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "avg Percentage CPU > 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 "CPU Usage > 800"

D. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "CPU Usage > 8"

Correct
```

Answer: B
Section: [none]
Explanation

Explanation/Reference:

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