

➤ **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 :
CS06   containers:
CS07     - name: service
CS08       properties:
CS09         image: contoso/contentUploadService:latest
CS10         ports:
CS11           - port: 80
CS12             protocol: TCP
CS13         resources:
CS14           requests:
CS15             cpw: 1.0
CS16             memoryInGB: 1.5
CS17
CS18 ipAddress:
CS19   ip: 10.23.121.112
CS20   ports:
CS21     - port: 80
CS22       protocol : TCP
CS23
CS24
CS25 networkProfile
CS26 id :
/subscriptions/98..19/resourceGroups/container/providers/Microsoft.Network/networkProfiles/subnet

```

```

AM01 {
AM02   "id" : "2b079f03-9b06-2d44-98bb-e9182901fcb6",
AM03   "appId" : "7118a7f0-b5c2-4c9d-833c-3d711396fe65",
AM04
AM05   "createdDateTime" : "2019-12-24T06:01:44Z",
AM06   "logoUrl" : null,
AM07   "logoutUrl" : null,
AM08   "name" : "ContentAnalysisService",
AM09
AM10
AM11   "orgRestrictions" : [],
AM12   "parentalControlSettings" : {
AM13     "countriesBlockedForMinors" : [],
AM14     "legalAgeGroupRule" : "Allow"
AM15   },
AM16   "passwordCredentials" : []
AM17 }

```

QUESTION 6

You need to configure the ContentUploadService deployment.
 Which two actions should you perform? Each correct answer presents part of the solution.

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:

<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.

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(
        

|                                             |   |
|---------------------------------------------|---|
|                                             | ▼ |
| [QueueTrigger("userContent")]               |   |
| [BlobTrigger("userContent/{name}")]         |   |
| [CosmosDBTrigger("content", "userContent")] |   |
| [Table("content", "userContent", "{name}")] |   |


        string content,
        

|                                                |   |
|------------------------------------------------|---|
|                                                | ▼ |
| [Queue("userContent")]                         |   |
| [CosmosDB("content", "userContent")]           |   |
| [Table("content", "userContent", "{name}")]    |   |
| [Blob("userContent/{name}", FileAccess.Write)] |   |


        Stream output)
    {
        ...
    }
}
```

Correct Answer:


```
public static class CheckUserContent
{
    [FunctionName ("CheckUserContent")]
    public static void Run(
        string content,
        [QueueTrigger("userContent")]
        [BlobTrigger("userContent/{name}")]
        [CosmosDBTrigger("content", "userContent")]
        [TableTrigger("content", "userContent", "{name}")]
        Stream output)
    {
        ...
    }
}
```

Json segments	Answer Area
User	"appRoles" : [
value	{
role	"[]": [
Application	"[]"
allowedMemberTypes],
allowedAccountTypes	"displayName": "ContentReviewer",
	"id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",
	"isEnabled" : true,
	"[]" : "ContentReviewer"
	}
],

<https://www.braindump2go.com/az-204.html>

Json segments	Answer Area
User	"appRoles" : [
value	{
role	" allowedMemberTypes " : [
Application	" User
allowedMemberTypes],
allowedAccountTypes	"displayName": "ContentReviewer",
	"id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",
	"isEnabled" : true,
	" value " : "ContentReviewer"
	}
],

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.

```
"appId": "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

	▼
"allowPublicClient":true	
"oauth2Permissions":["login"]	
"oauth2AllowUrlPathMatching":true	
"oauth2AllowIdTokenImplicitFlow":true	

	▼
"oauth2AllowImplicitFlow": true	
"oauth2RequiredPostResponse":true	
"preAuthorizedApplications":["SPA"]	
"knownClientApplications":["ContentAnalysisService"]	

Correct Answer:

Answer Area

	▼
"allowPublicClient":true	
"oauth2Permissions":["login"]	
"oauth2AllowUrlPathMatching":true	
"oauth2AllowIdTokenImplicitFlow":true	

	▼
"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

Technology

Value

SSL certificate

	▼
Valid root certificate	
Self-signed certificate	

Proxy type

	▼
nginx	
Azure Application Gateway	

Correct Answer:

Answer Area

Technology	Value
SSL certificate	<div><div></div><div>Valid root certificate</div><div>Self-signed certificate</div></div>
Proxy type	<div><div></div><div>nginx</div><div>Azure Application Gateway</div></div>

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-](https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview)

[firewall/ag/ag-overview](https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview) [https://www.upguard.com/articles/10-tips-](https://www.upguard.com/articles/10-tips-for-securing-your-nginx-deployment)

[for-securing-your-nginx-deployment](https://www.upguard.com/articles/10-tips-for-securing-your-nginx-deployment)

QUESTION 12

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 "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>