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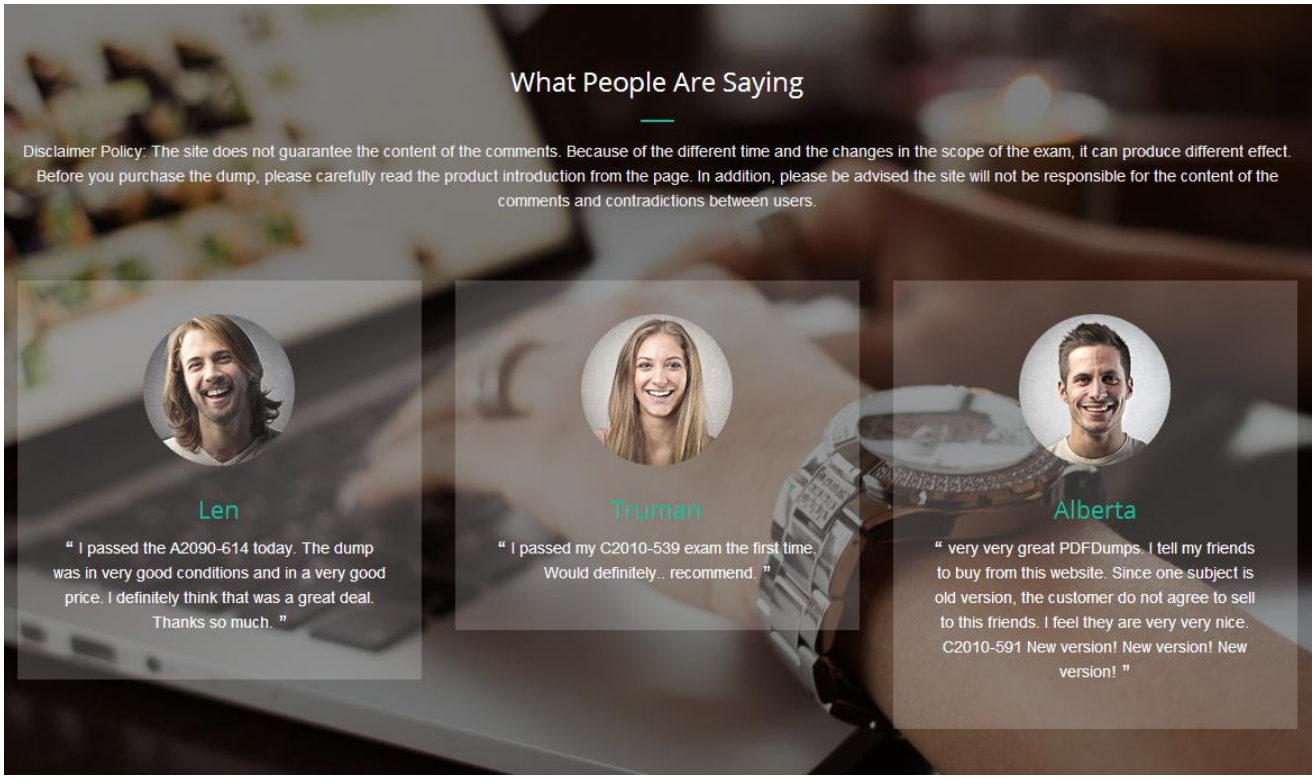

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Exam : **AZ-204-Deutsch**

Title : Developing Solutions for Microsoft Azure (AZ-204 Deutsch Version)

Vendor : Microsoft

Version : DEMO

QUESTION NO: 1
Sie müssen die Shipping Logic App sichern.
Was sollten Sie verwenden?
A. Azure App Service-Umgebung (ASE)
B. Azure AD B2B-Integration
C. Integrationsdienstumgebung (ISE)
D. VNET-Dienstendpunkt
Answer: C
Explanation:
Scenario: The Shipping Logic App requires secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
You can access to Azure Virtual Network resources from Azure Logic Apps by using integration service environments (ISEs).
Sometimes, your logic apps and integration accounts need access to secured resources, such as virtual machines (VMs) and other systems or services, that are inside an Azure virtual network. To set up this access, you can create an integration service environment (ISE) where you can run your logic apps and create your integration accounts.
References:
https://docs.microsoft.com/en-us/azure/logic-apps/connect-virtual-network-vnet-isolated-environment-overview
Topic 1, Windows Server 2016 virtual machine
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.
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To start the case study
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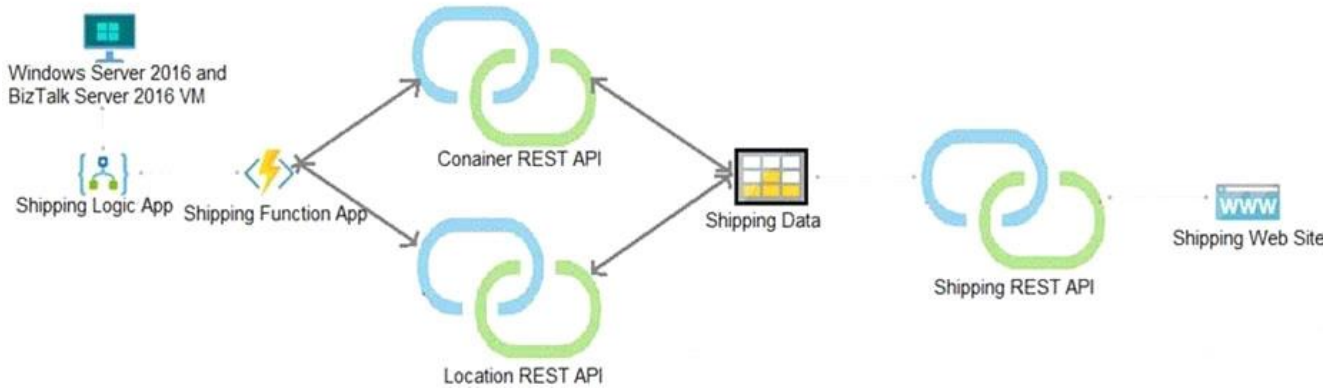
Current environment
Windows Server 2016 virtual machine
The virtual machine (VM) runs BizTalk Server 2016. The VM runs the following workflows:
Ocean Transport - This workflow gathers and validates container information including container contents and arrival notices at various shipping ports.

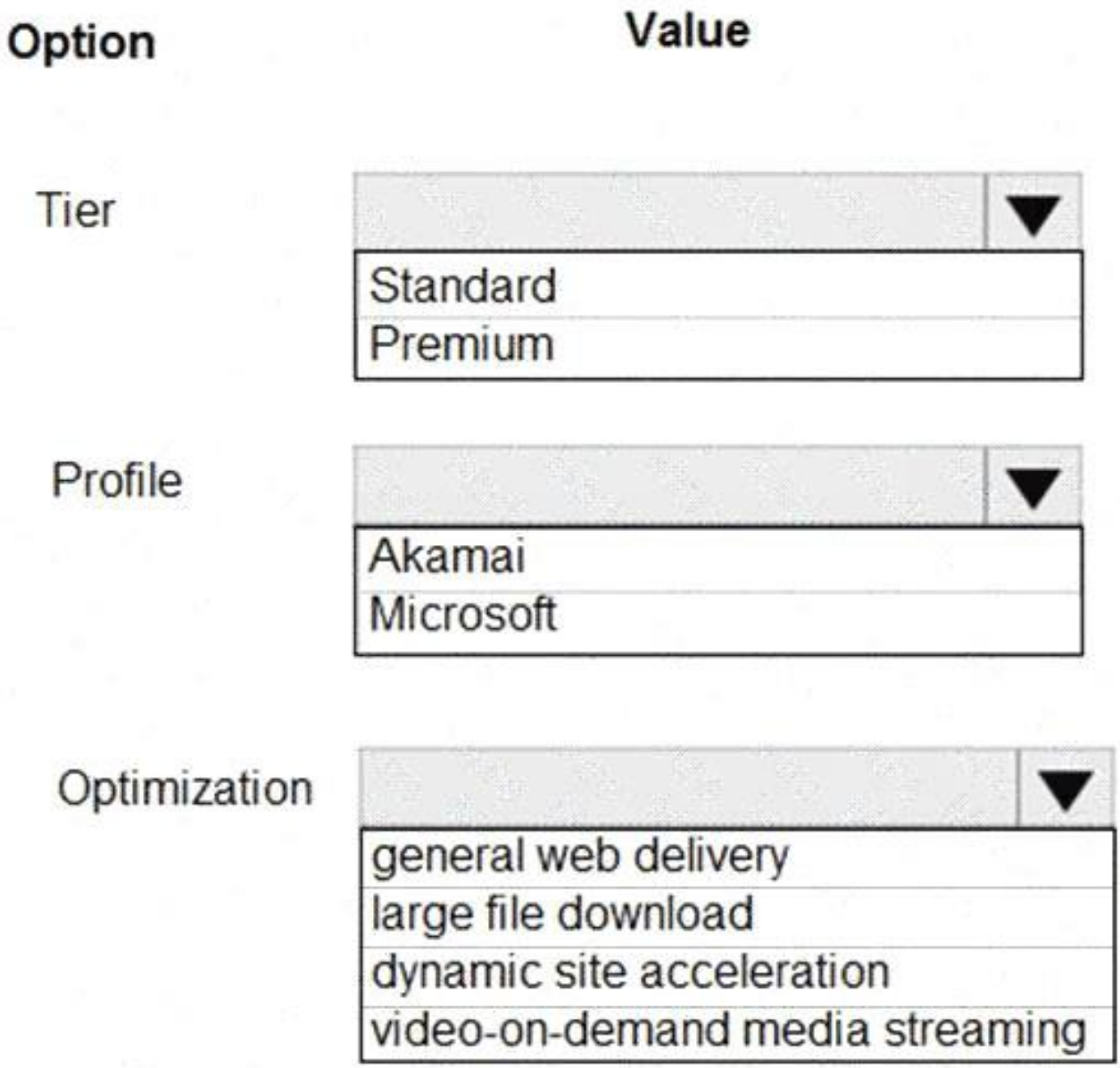
Inland Transport - This workflow gathers and validates trucking information including fuel usage, number of stops, and routes.
The VM supports the following REST API calls:
Container API - This API provides container information including weight, contents, and other attributes.
Location API - This API provides location information regarding shipping ports of call and tracking stops.
Shipping REST API - This API provides shipping information for use and display on the shipping website.
Shipping Data
The application uses MongoDB JSON document storage database for all container and transport information.
Shipping Web Site
The
site displays shipping container tracking information and container contents. The site is located at
http://shipping.wideworldimporters.com/
Proposed solution
The on-premises shipping application must be moved to Azure. The VM has been migrated to a new Standard_D16s_v3 Azure VM by using Azure Site Recovery and must remain running in Azure to complete the BizTalk component migrations. You create a Standard_D16s_v3 Azure VM to host BizTalk Server. The Azure architecture diagram for the proposed solution is shown below:



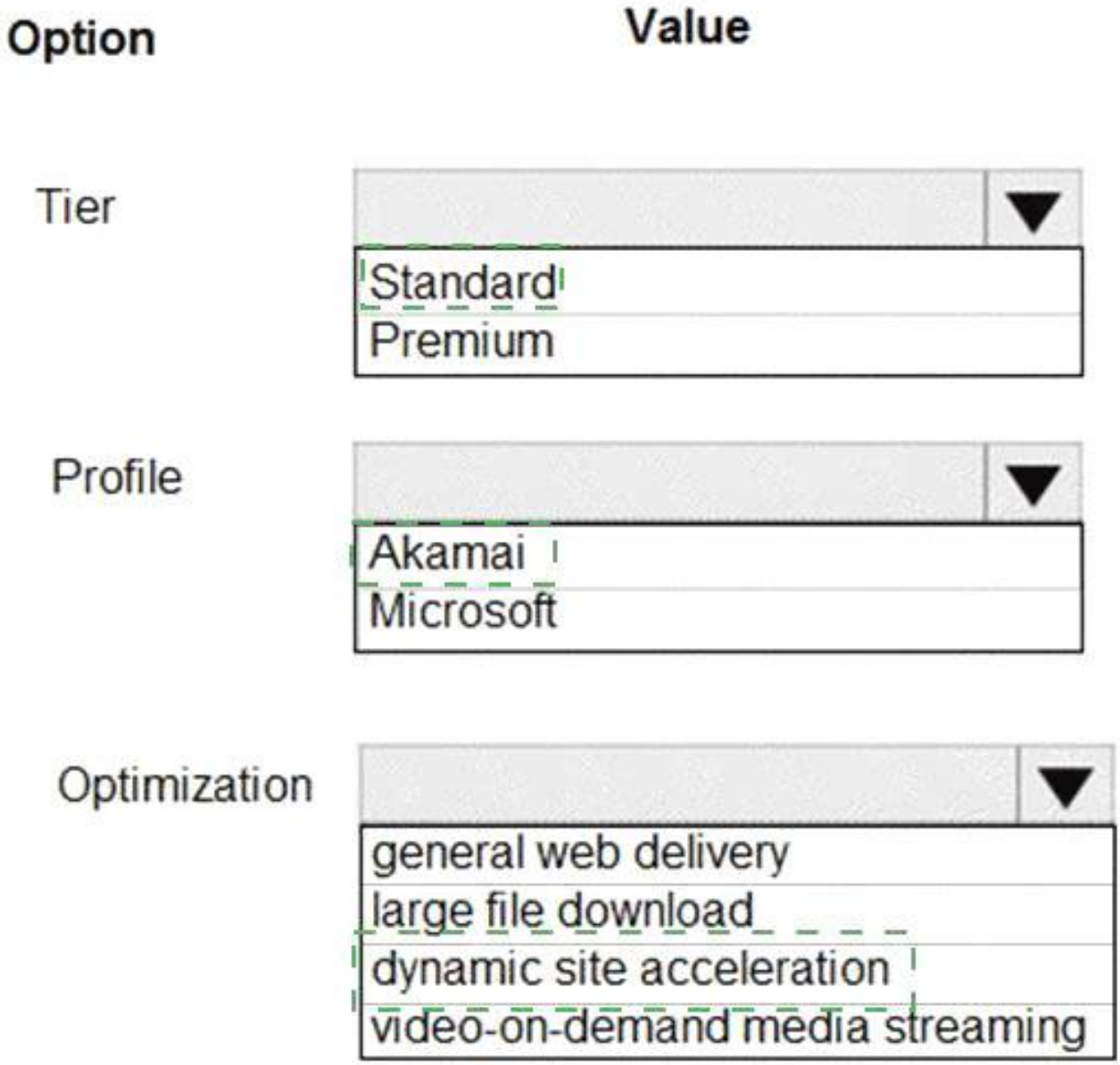
Requirements
Shipping Logic app
The Shipping Logic app must meet the following requirements:
Support the ocean transport and inland transport workflows by using a Logic App.
Support industry-standard protocol X12 message format for various messages including vessel content details and arrival notices.
Secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
Maintain on-premises connectivity to support legacy applications and final BizTalk migrations
.
Shipping Function app
Implement secure function endpoints by using app-level security and include Azure Active Directory (Azure AD).

REST APIs
The REST API's that support the solution must meet the following requirements:
Secure resources to the corporate VNet.
Allow deployment to a testing location within Azure while not incurring additional costs.
Automatically scale to double capacity during peak shipping times while not causing application downtime.
Minimize costs when selecting an Azure payment model.
Shipping data
Data migration from on-premises to Azure must minimize costs and downtime.
Shipping website
Use Azure Content Delivery Network (CDN) and ensure maximum performance for dynamic content while minimizing latency and costs.
Issues
Windows Server 2016 VM
The VM shows high network latency, jitter, and high CPU utilization. The VM is critical and has not been backed up in the past. The VM must enable a quick restore from a 7-day snapshot to include in-place restore of disks in case of failure.
Shipping website and REST APIs
The following error message displays while you are testing the website:
Failed
to load http://test-shippingapi.wideworldimporters.com/: No
' Access-Control-Allow-Origin ' header is present on the requested resource. Origin ' http://test.
wideworldimporters.com/ ' is therefore not allowed access.

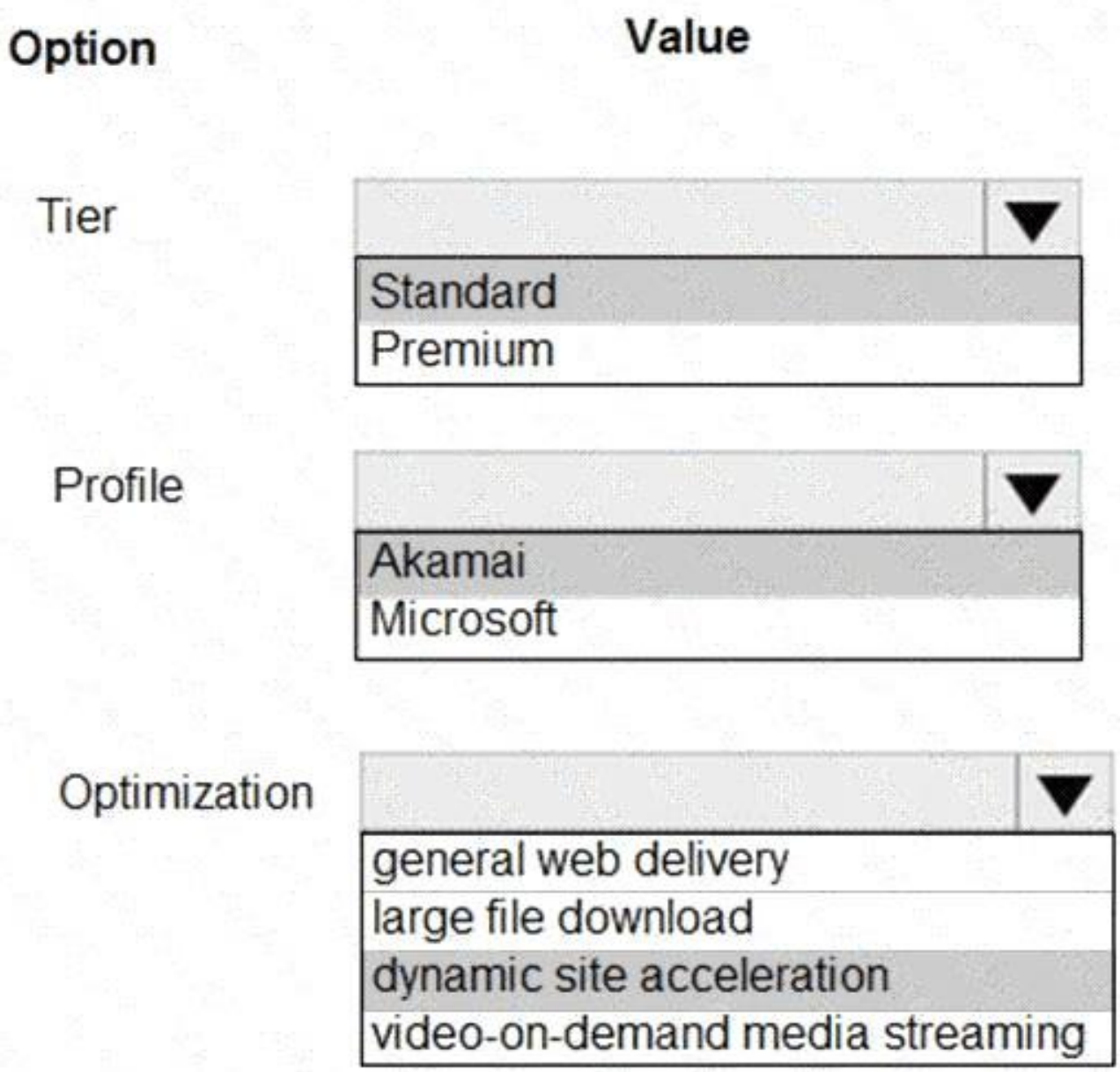
QUESTION NO: 2
Sie müssen Azure CDN für die Versandwebsite konfigurieren.
Welche Konfigurationsoptionen sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.


Option
Value
Tier
Standard
Premium
Profile
Akamai
Microsoft
Optimization
general web delivery
large file download
dynamic site acceleration
video-on-demand media streaming

Answer:

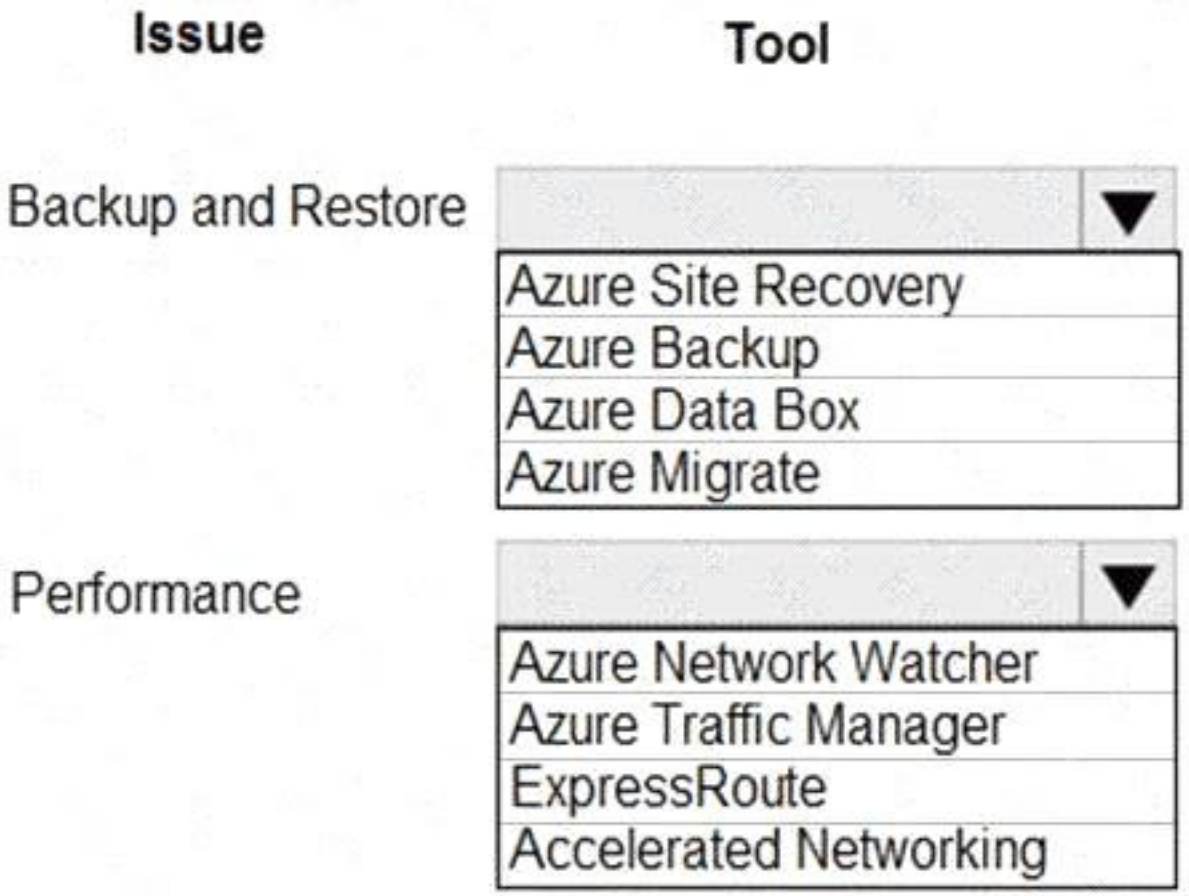


Explanation:

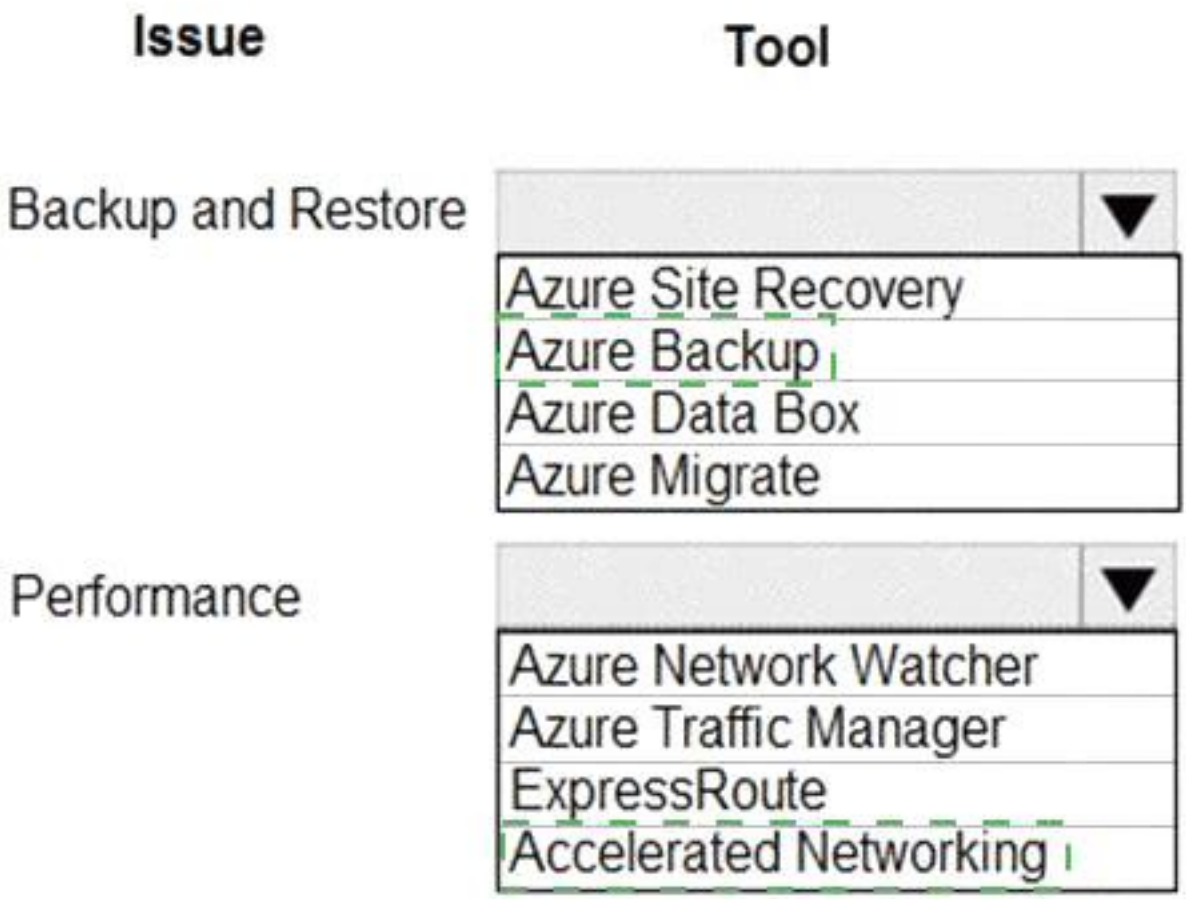


Scenario: Shipping website
Use Azure Content Delivery Network (CDN) and ensure maximum performance for dynamic content while minimizing latency and costs.
Tier: Standard
Profile: Akamai
Optimization: Dynamic site acceleration
Dynamic site acceleration (DSA) is available for Azure CDN Standard from Akamai, Azure CDN Standard from Verizon, and Azure CDN Premium from Verizon profiles.
DSA includes various techniques that benefit the latency and performance of dynamic content. Techniques include route and network optimization, TCP optimization, and more.
You can use this optimization to accelerate a web app that includes numerous responses that aren ' t cacheable. Examples are search results, checkout transactions, or real-time data. You can continue to use core Azure CDN caching capabilities for static data.
Reference:
https://docs.microsoft.com/en-us/azure/cdn/cdn-optimization-overview

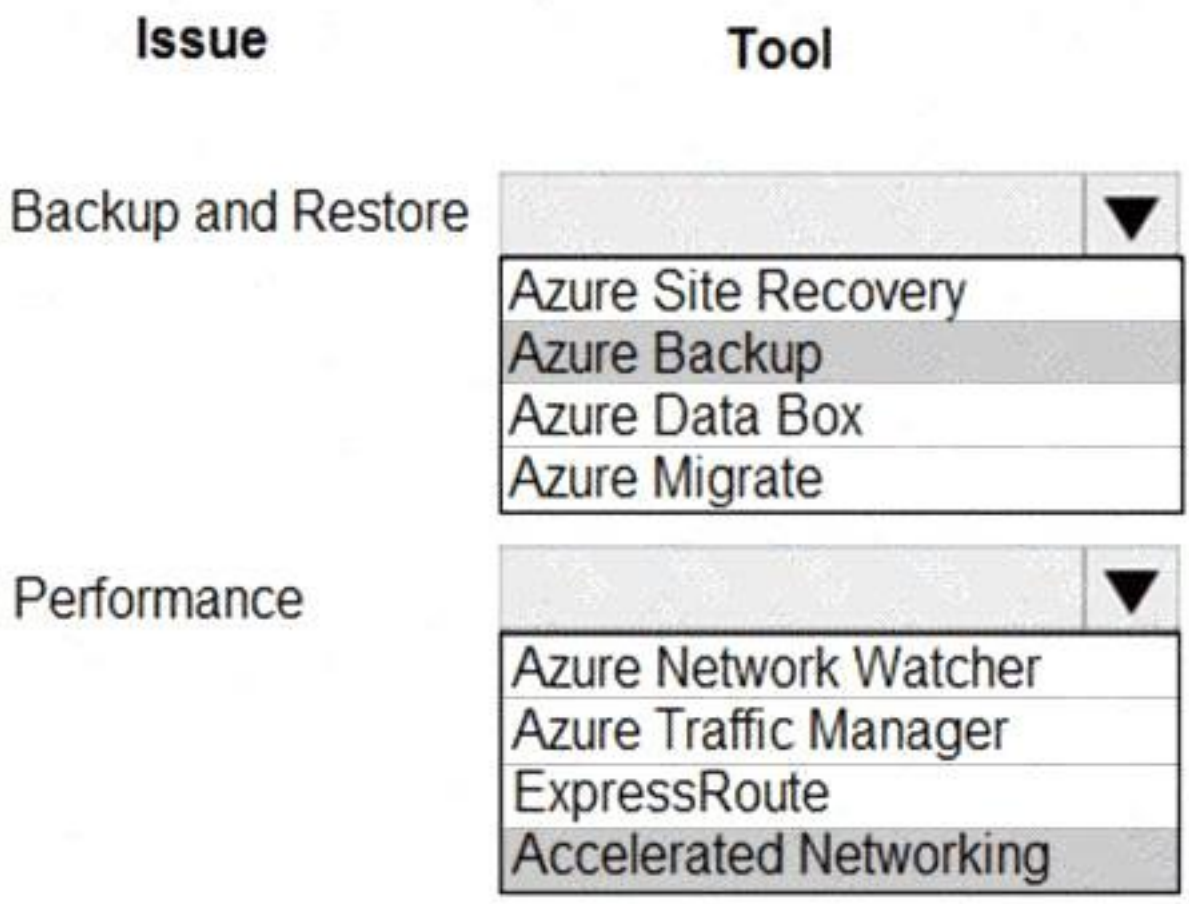
QUESTION NO: 3
Sie müssen die VM-Probleme beheben.
Welche Tools sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



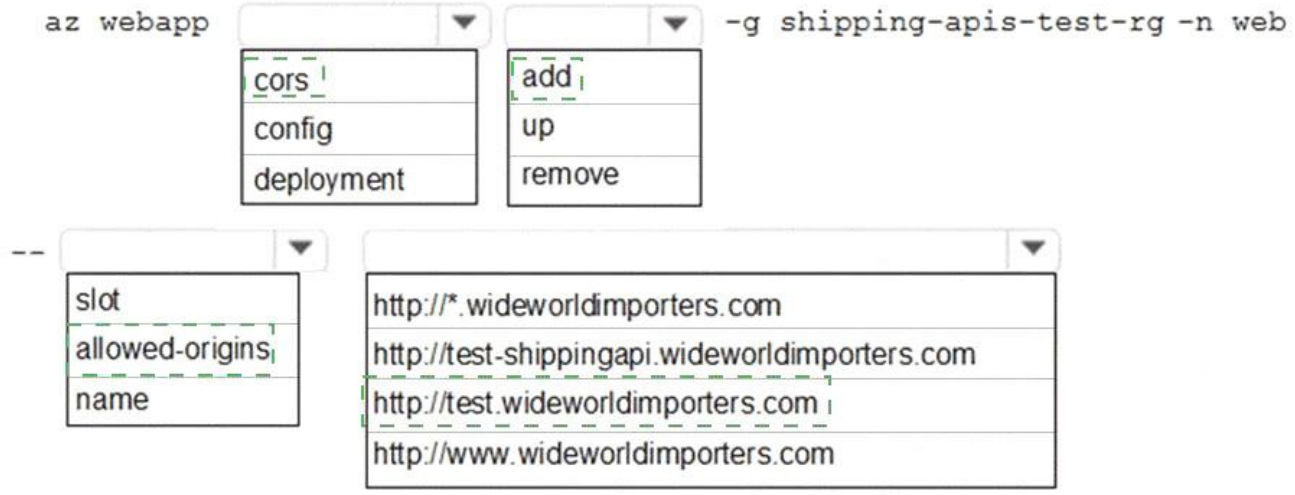
Explanation:



Backup and Restore: Azure Backup
Scenario: The VM is critical and has not been backed up in the past. The VM must enable a quick restore from a 7-day snapshot to include in-place restore of disks in case of failure.
In-Place restore of disks in IaaS VMs is a feature of Azure Backup.
Performance: Accelerated Networking
Scenario: The VM shows high network latency, jitter, and high CPU utilization.
Accelerated networking enables single root I/O virtualization (SR-IOV) to a VM, greatly improving its networking performance. This high-performance path bypasses the host from the datapath, reducing latency, jitter, and CPU utilization, for use with the most demanding network workloads on supported VM types.
References:
https://azure.microsoft.com/en-us/blog/an-easy-way-to-bring-back-your-azure-vm-with-in-place-restore/

QUESTION NO: 4
Sie müssen die APIs aktualisieren, um den Testfehler zu beheben.
Wie sollten Sie den Azure CLI-Befehl ausführen? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.

Answer:



Explanation:

Enable Cross-Origin Resource Sharing (CORS) on your Azure App Service Web App. Enter the full URL of the site you want to allow to access your WEB API or * to allow all domains.

Box 1: cors

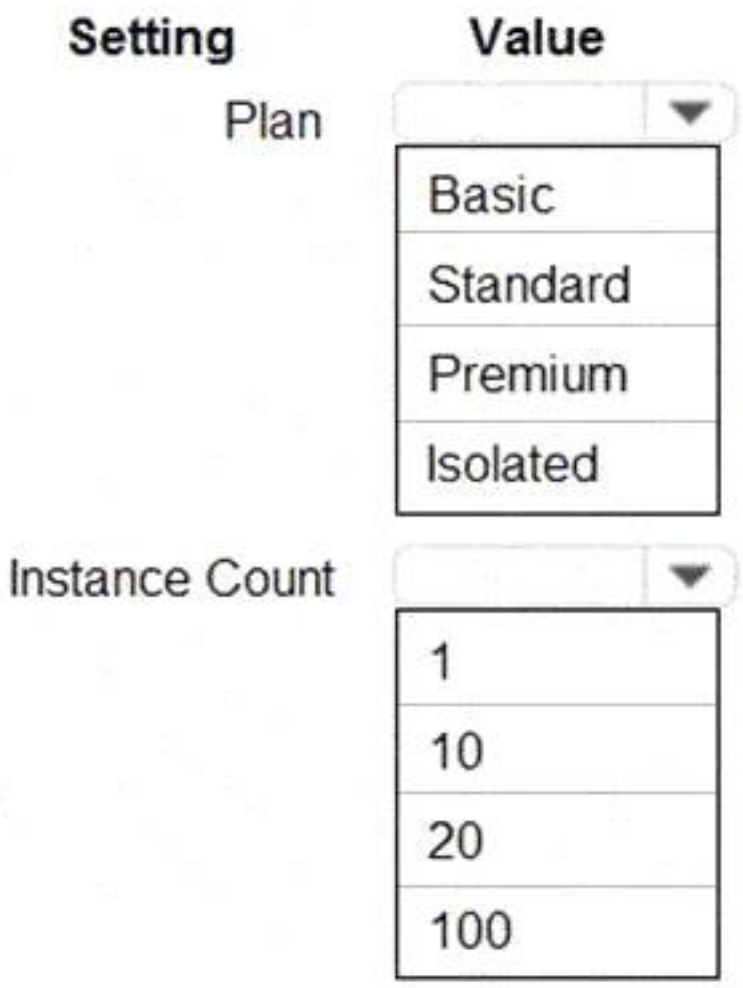
Box 2: add

Box 3: allowed-origins

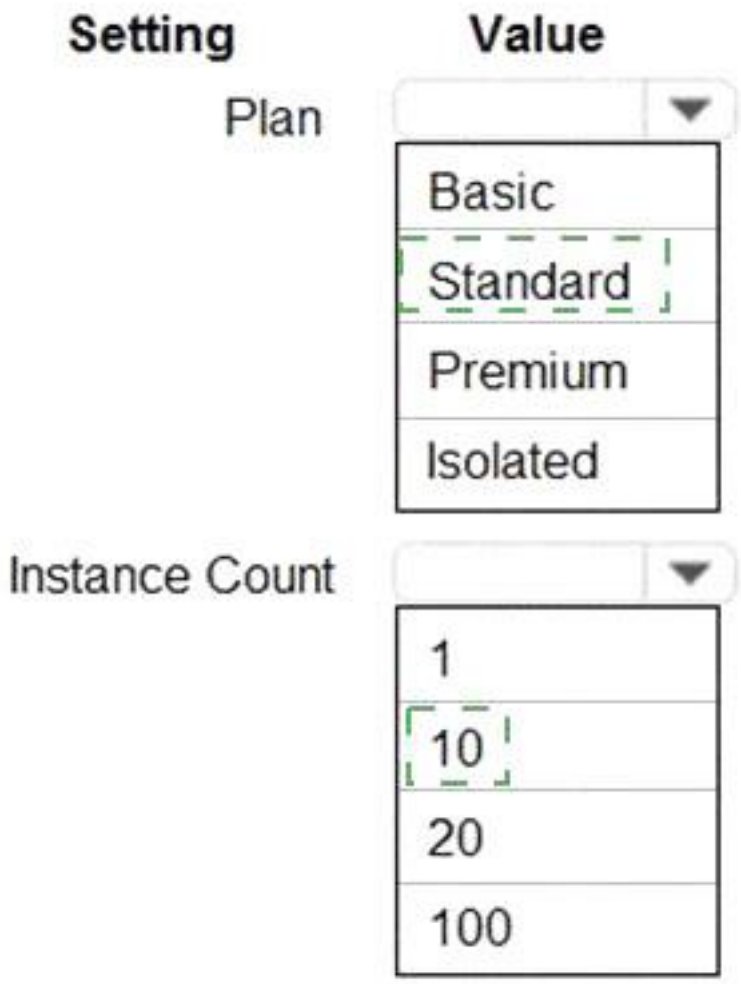
Box

4: http://testwideworldimporters.com/
References:
http://donovanbrown.com/post/How-to-clear-No-Access-Control-Allow-Origin-header-error-with-Azure-App- Service

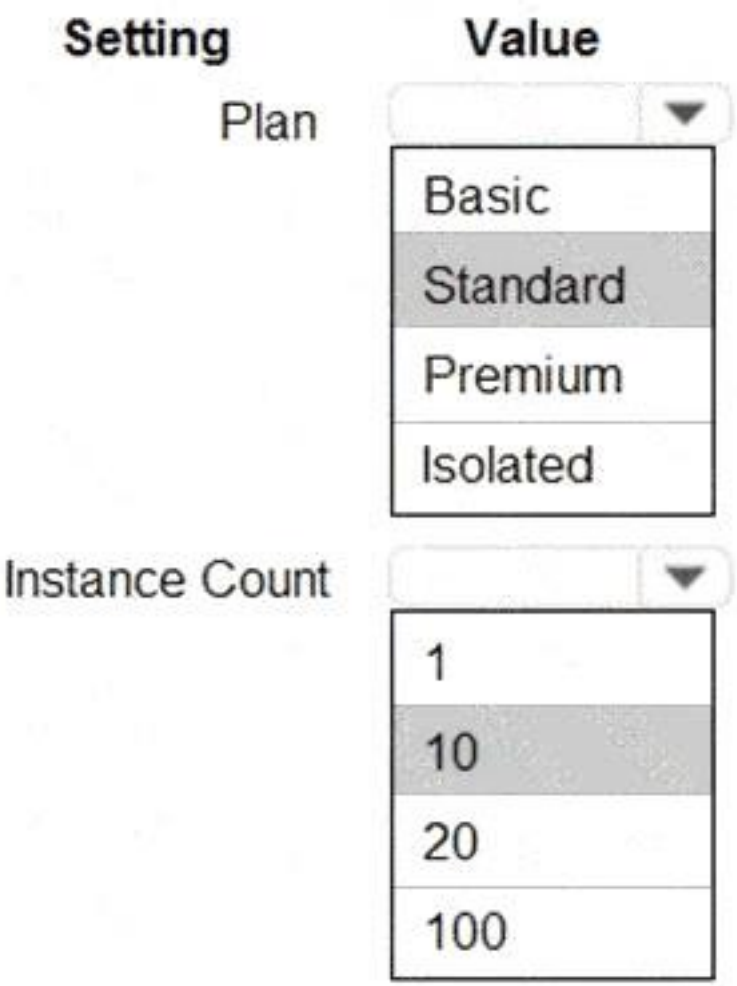
QUESTION NO: 5
Sie müssen Azure App Service konfigurieren, um die REST-API-Anforderungen zu unterstützen.
Welche Werte sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:

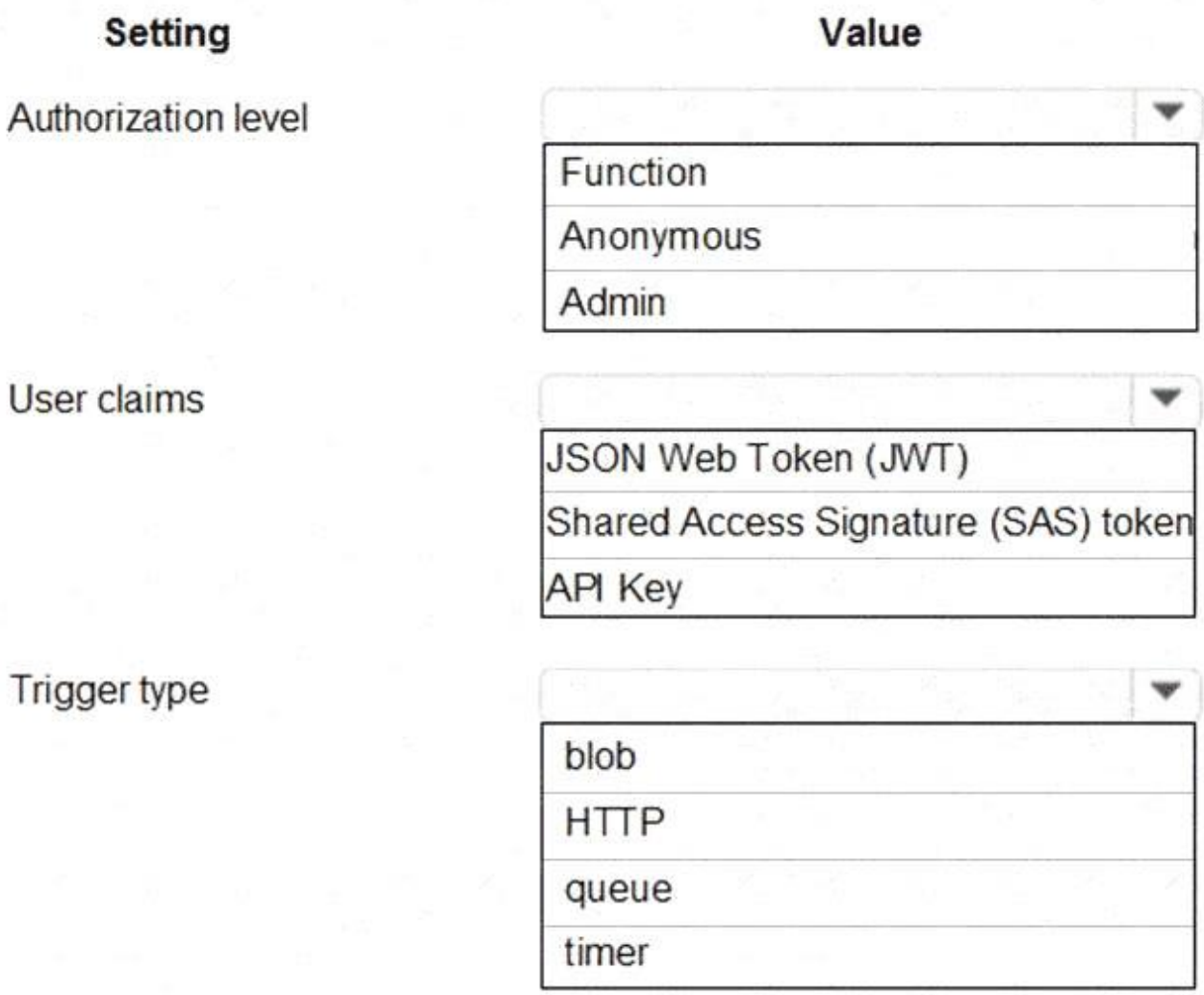


Explanation:

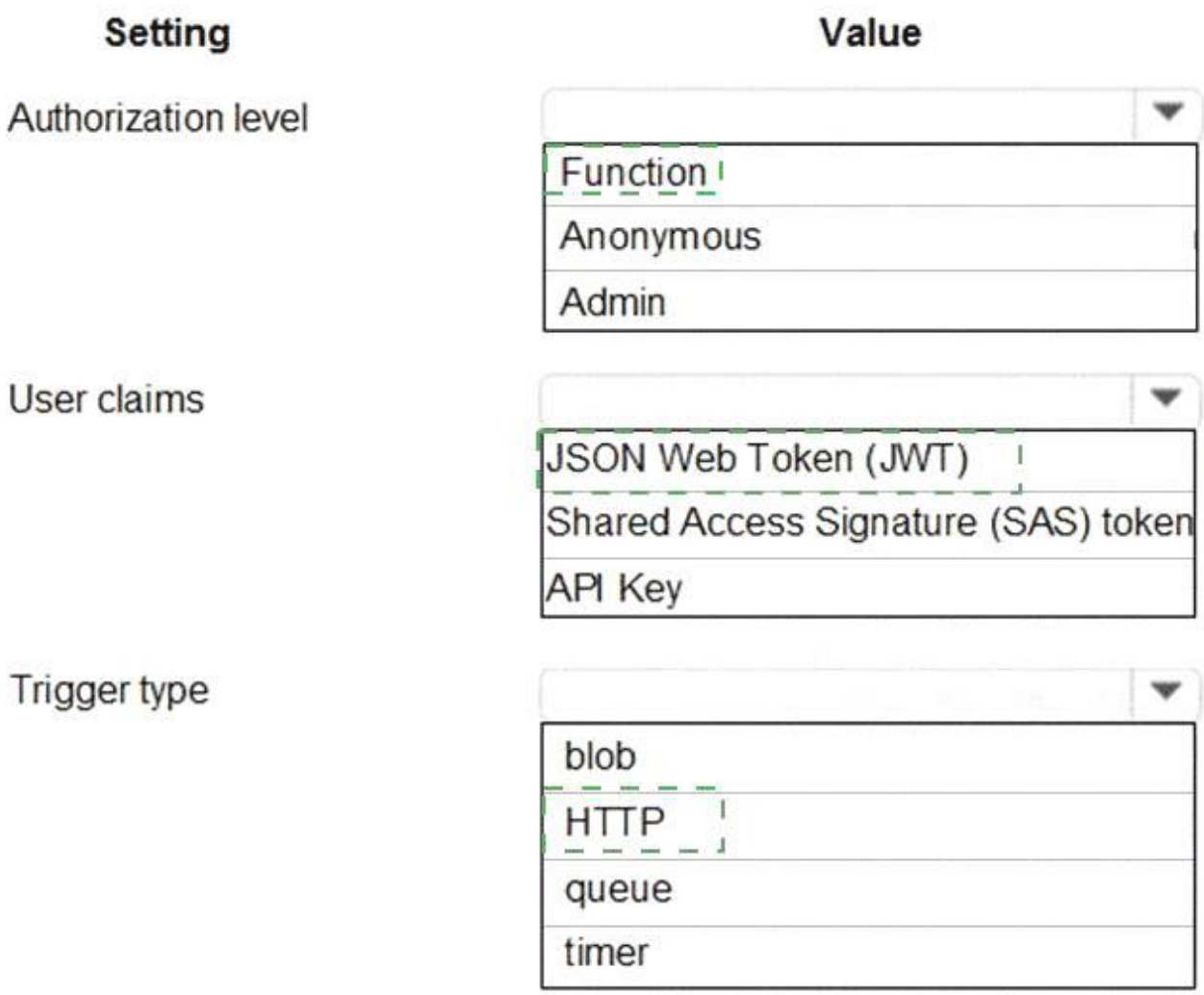


Plan: Standard
Standard support auto-scaling
Instance Count: 10
Max instances for standard is 10.
Scenario:
The REST API's that support the solution must meet the following requirements:
Allow deployment to a testing location within Azure while not incurring additional costs.
Automatically scale to double capacity during peak shipping times while not causing application downtime.
Minimize costs when selecting an Azure payment model.
References:
https://azure.microsoft.com/en-us/pricing/details/app-service/plans/

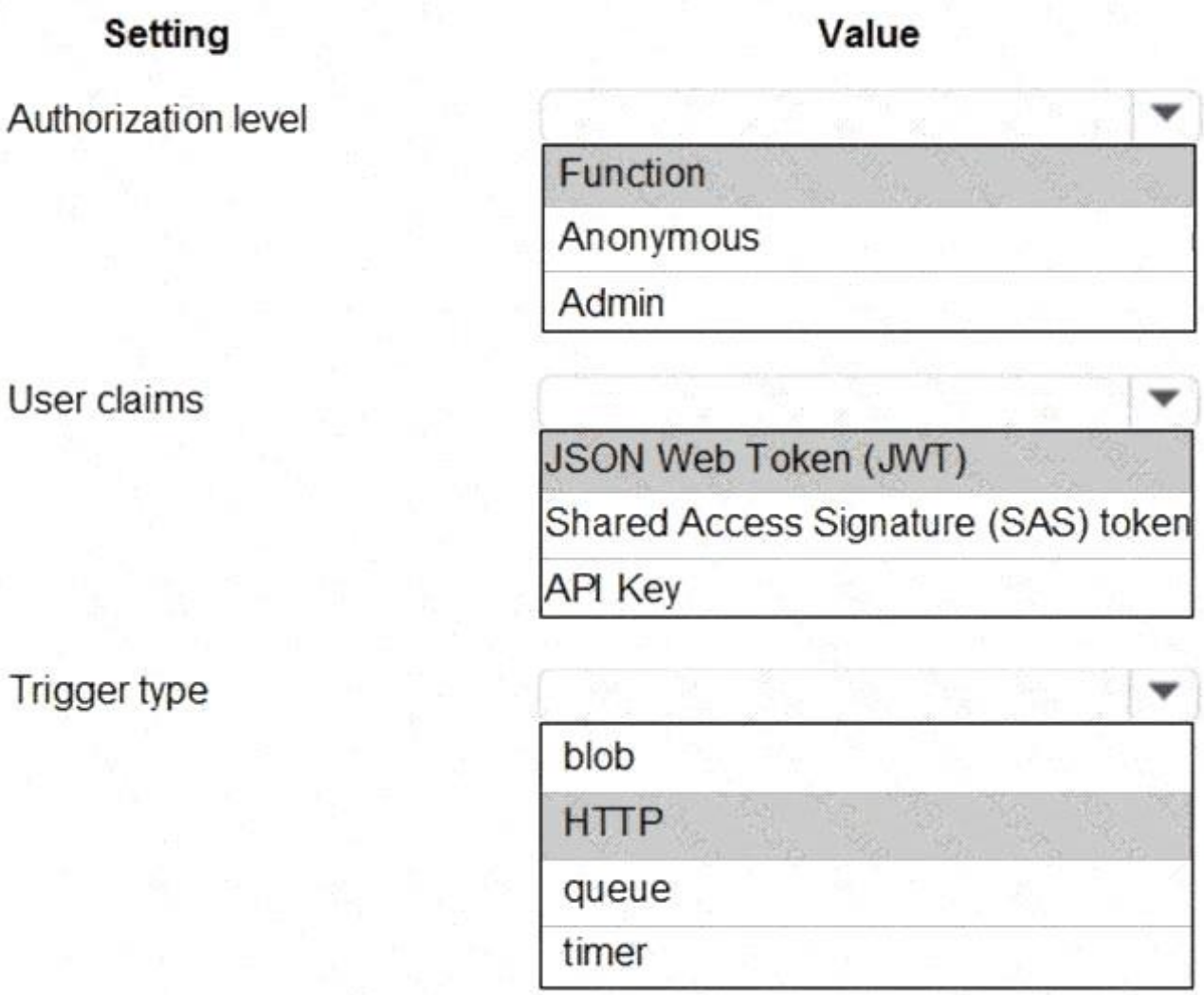
QUESTION NO: 6
Sie müssen die Versandfunktions-App sichern.
Wie sollten Sie die App konfigurieren? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.


Setting
Value
Authorization level
Function
Anonymous
Admin
User claims
JSON Web Token (JWT)
Shared Access Signature (SAS) token
API Key
Trigger type
blob
HTTP
queue
timer

Answer:



Explanation:

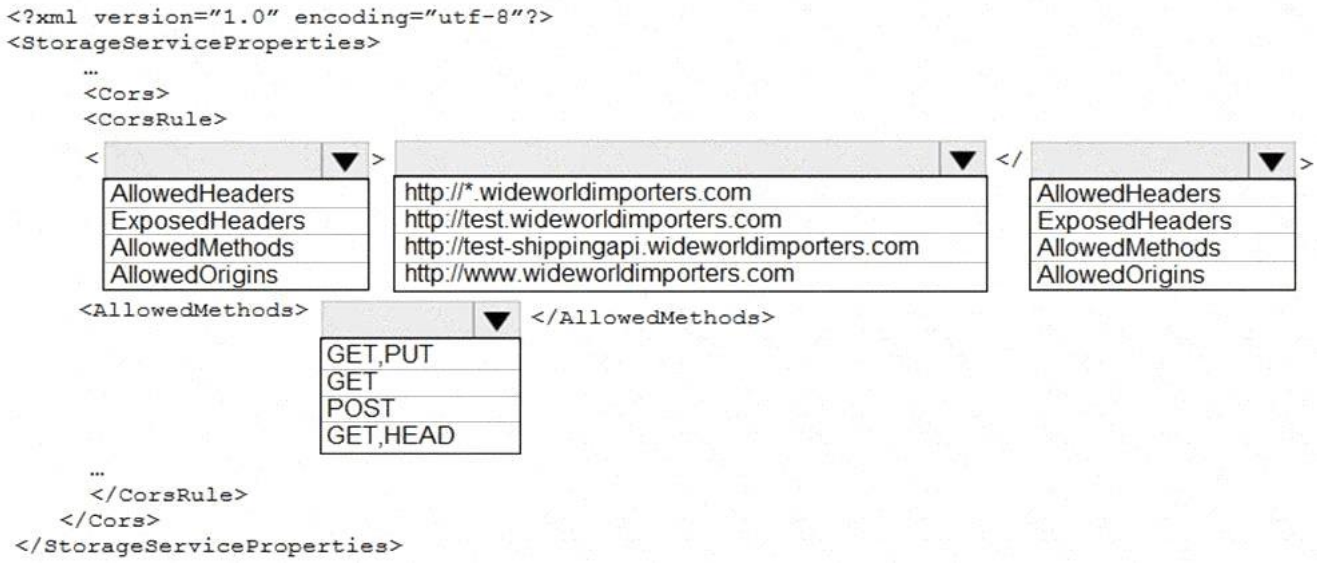


Scenario: Shipping Function app: Implement secure function endpoints by using app-level security and include Azure Active Directory (Azure AD).
Box 1: Function
Box 2: JSON based Token (JWT)
Azure AD uses JSON based tokens (JWTs) that contain claims
Box 3: HTTP
How a web app delegates sign-in to Azure AD and obtains a token
User authentication happens via the browser. The OpenID protocol uses standard HTTP protocol messages.
References:
https://docs.microsoft.com/en-us/azure/active-directory/develop/authentication-scenarios

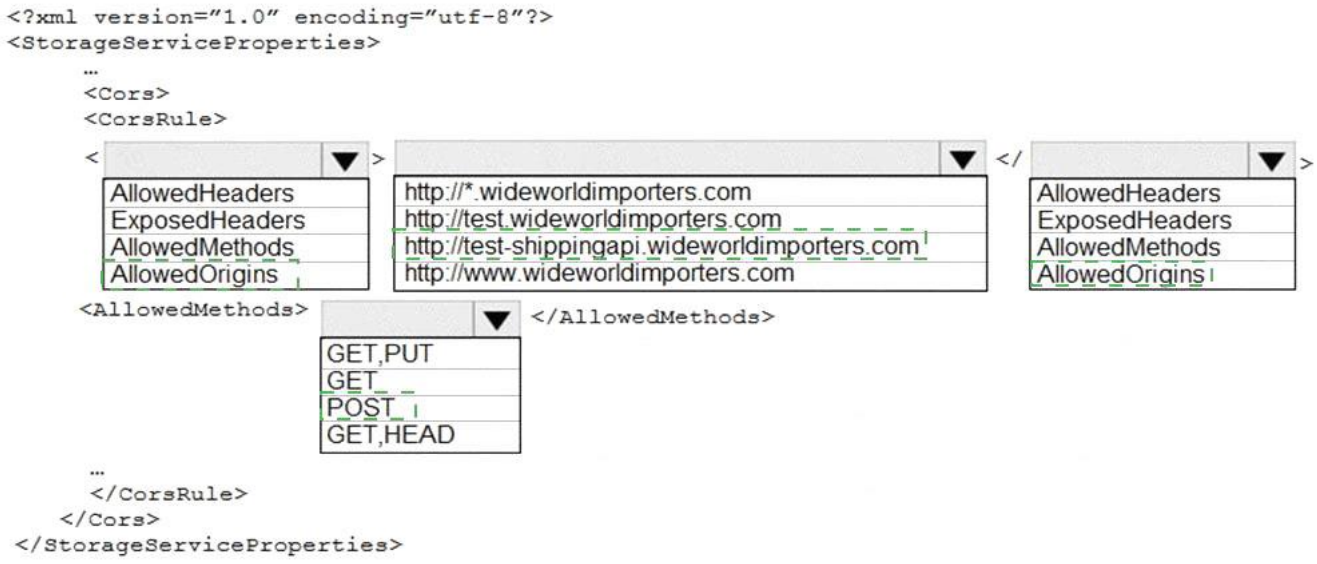
QUESTION NO: 7
Sie müssen lokale Versanddaten zu Azure migrieren.
Was sollten Sie verwenden?
A. Azure Migrate
B. Azure Cosmos DB-Datenmigrationstool (dt.exe)
C. AzCopy
D. Azure Database Migration-Dienst

Answer: D
Explanation:
Migrate from on-premises or cloud implementations of MongoDB to Azure Cosmos DB with minimal downtime by using Azure Database Migration Service. Perform resilient migrations of MongoDB data at scale and with high reliability.
Scenario: Data migration from on-premises to Azure must minimize costs and downtime.
The application uses MongoDB JSON document storage database for all container and transport information.
References:
https://azure.microsoft.com/en-us/updates/mongodb-to-azure-cosmos-db-online-and-offline-migrations-are- now-available/

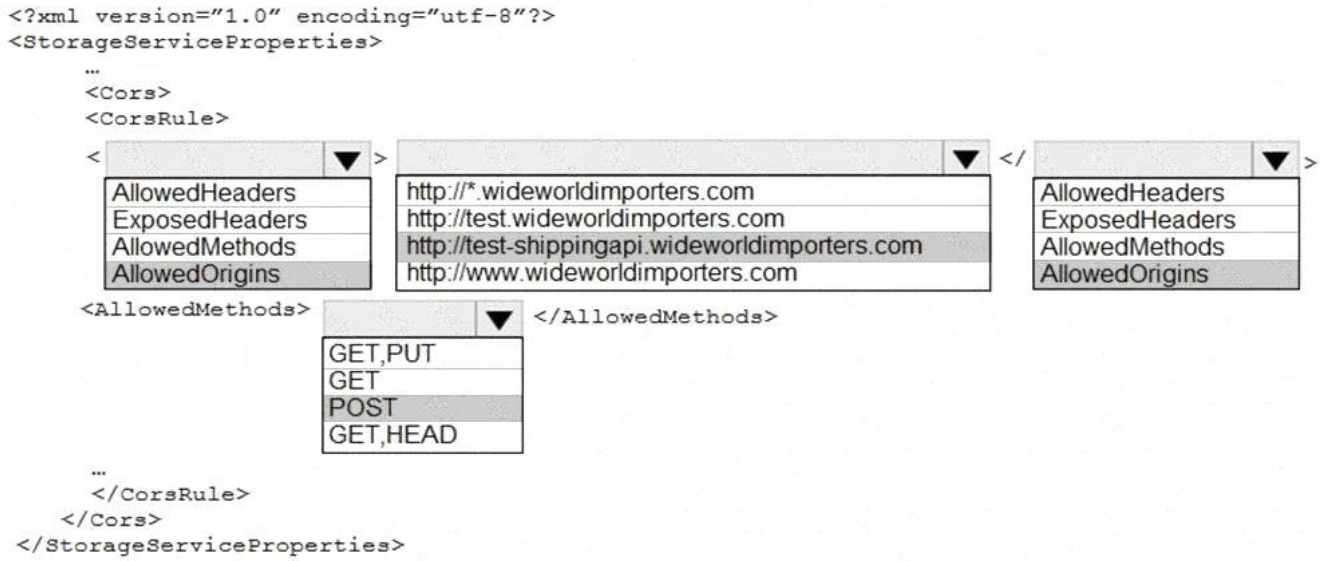
QUESTION NO: 8
Sie müssen den Fehler auf der Versandwebsite beheben.
Wie sollten Sie den Azure Table Storage-Dienst konfigurieren? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



Explanation:



Box 1: AllowedOrigins

A CORS request will fail if Access-Control-Allow-Origin is missing.

Scenario:

The following error message displays while you are testing the website:

```
Failed to load http://test-shippingapi.wideworldimporters.com/: No 'Access-Control-Allow-Origin'
header is present on the requested resource. Origin 'http://testwideworldimporters.com/' is
therefore not allowed access.
```

Box

2: http://test-shippingapi.wideworldimporters.com

Syntax: Access-Control-Allow-Origin: *

Access-Control-Allow-Origin: < origin >

Access-Control-Allow-Origin: null

< origin > Specifies an origin. Only a single origin can be specified.

Box 3: AllowedOrigins

Box 4: POST

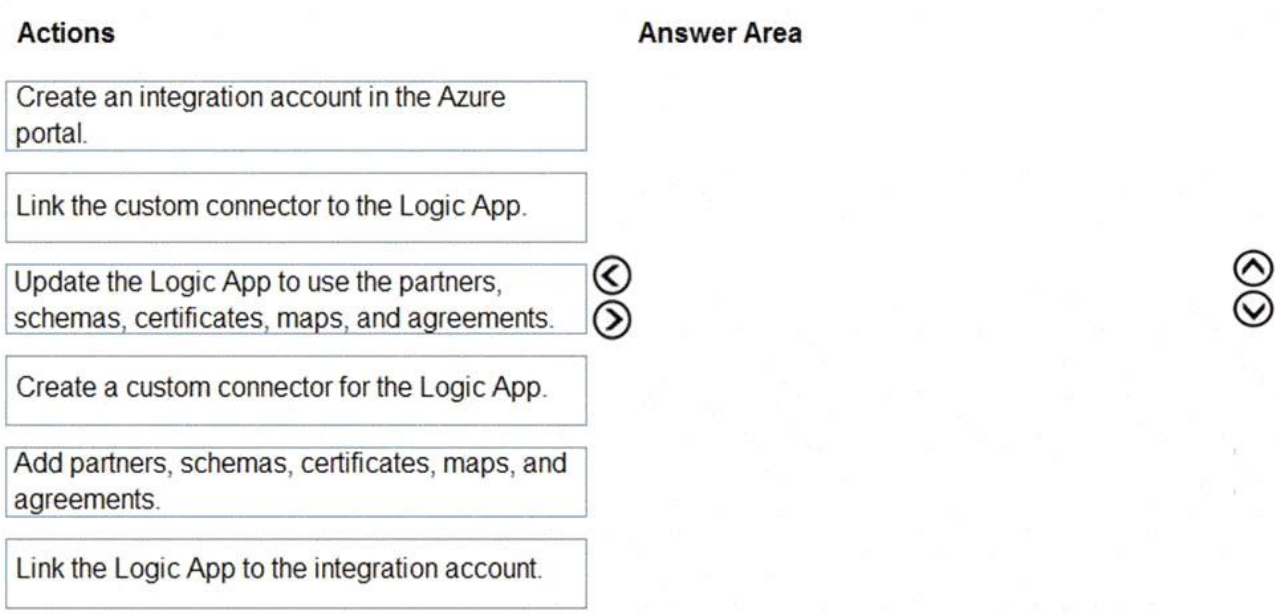
The only allowed methods are GET, HEAD, and POST. In this case POST is used.

" < Corsrule > " " allowedmethods " Failed to load no " Access-control-Origin " header is present References:

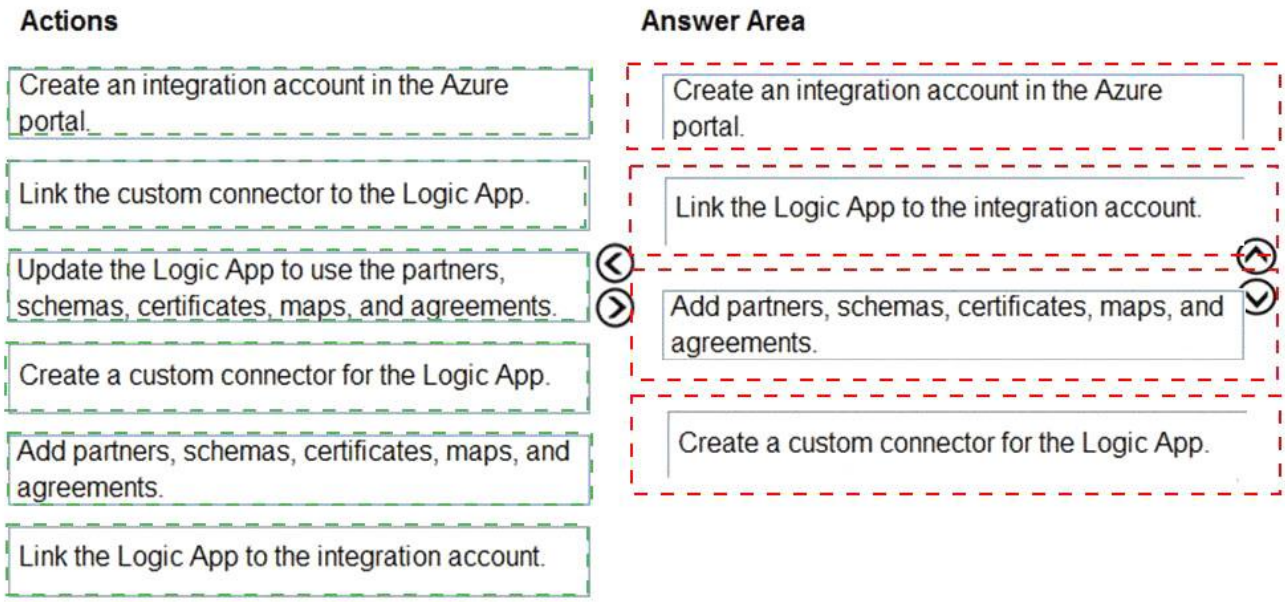
https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Access-Control-Allow-Origin

QUESTION NO: 9

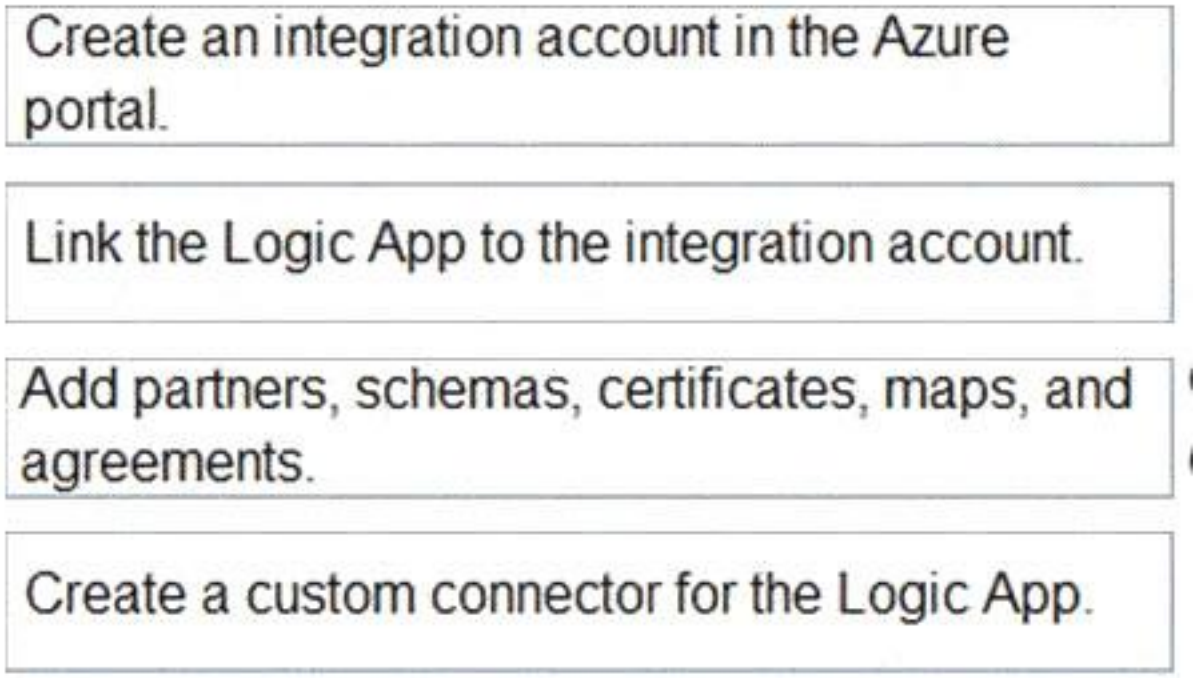
Sie müssen die Nachrichtenverarbeitung für den Seetransport-Workflow unterstützen. Welche vier Aktionen sollten Sie nacheinander ausführen? Um zu antworten, verschieben Sie die entsprechenden Aktionen aus der Liste der Aktionen in den Antwortbereich und ordnen Sie sie in der richtigen Reihenfolge an.



Answer:



Explanation:



Step 1: Create an integration account in the Azure portal
You can define custom metadata for artifacts in integration accounts and get that metadata during runtime for your logic app to use. For example, you can provide metadata for artifacts, such as partners, agreements, schemas, and maps - all store metadata using key-value pairs
.
Step 2: Link the Logic App to the integration account
A logic app that ' s linked to the integration account and artifact metadata you want to use.
Step 3: Add partners, schemas, certificates, maps, and agreements
Step 4: Create a custom connector for the Logic App.
References:
https://docs.microsoft.com/bs-latn-ba/azure/logic-apps/logic-apps-enterprise-integration-metadata

QUESTION NO: 10
Sie müssen die Anforderungen für die Shipping Logic App unterstützen.
Was sollten Sie verwenden?
A. Azure Active Directory-Anwendungsproxy
B. Point-to-Site (P2S) VPN-Verbindung
C. Site-to-Site (S2S) VPN-Verbindung
D. Lokales Datengateway
Answer: D
Explanation:
Before you can connect to on-premises data sources from Azure Logic Apps, download and install the on- premises data gateway on a local computer. The gateway works as a bridge that provides quick data transfer and encryption between data sources on premises (not in the cloud) and your logic apps.
The gateway supports BizTalk Server 2016.
Note: Microsoft have now fully incorporated the Azure BizTalk Services capabilities into Logic

Apps and Azure App Service Hybrid Connections.
Logic Apps Enterprise Integration pack bring some of the enterprise B2B capabilities like AS2 and X12, EDI standards support Scenario: The Shipping Logic app must meet the following requirements:
Support the ocean transport and inland transport workflows by using a Logic App.
Support industry-standard protocol X12 message format for various messages including vessel content details and arrival notices.
Secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
Maintain on-premises connectivity to support legacy applications and final BizTalk migrations .
Reference:
https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-gateway-install
Topic 2, Contoso, Ltd
Case study
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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

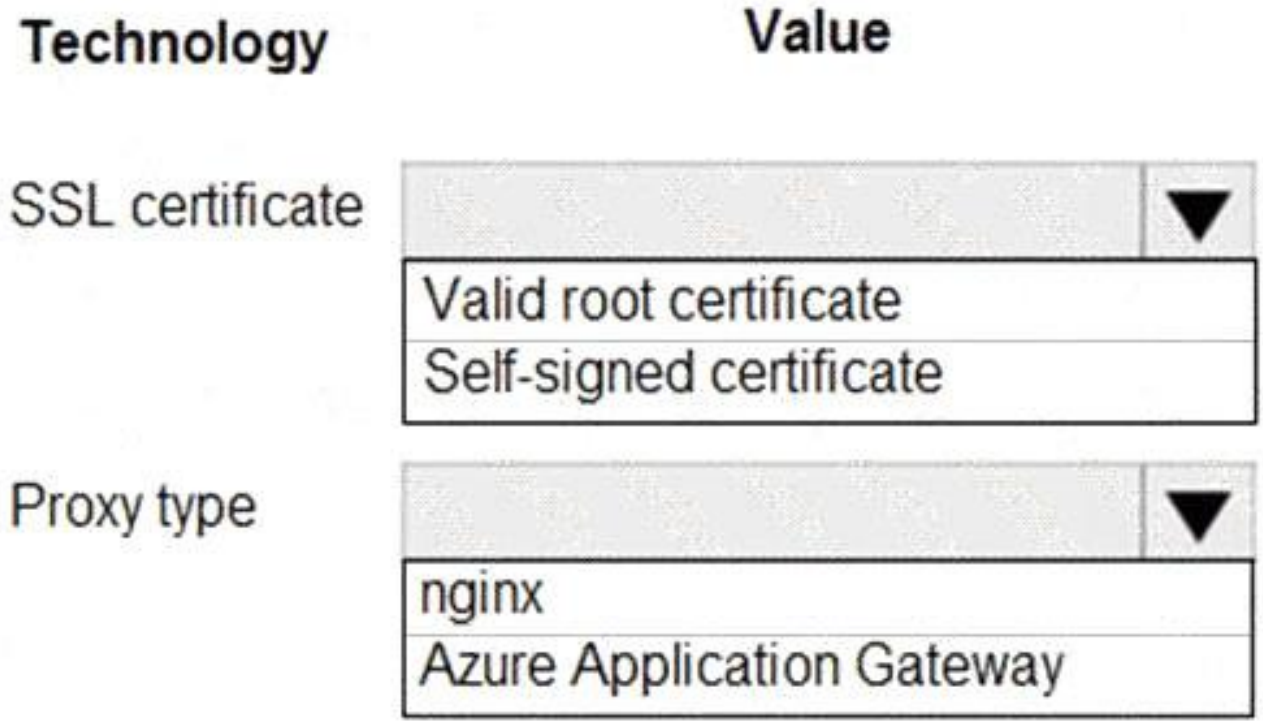
significantly deviate from the old version.
Issues
Users of the ContentUploadService report that they occasionally see HTTP 502 responses on specific pages.
Code
ContentUploadService

```
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             cpu: 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
```

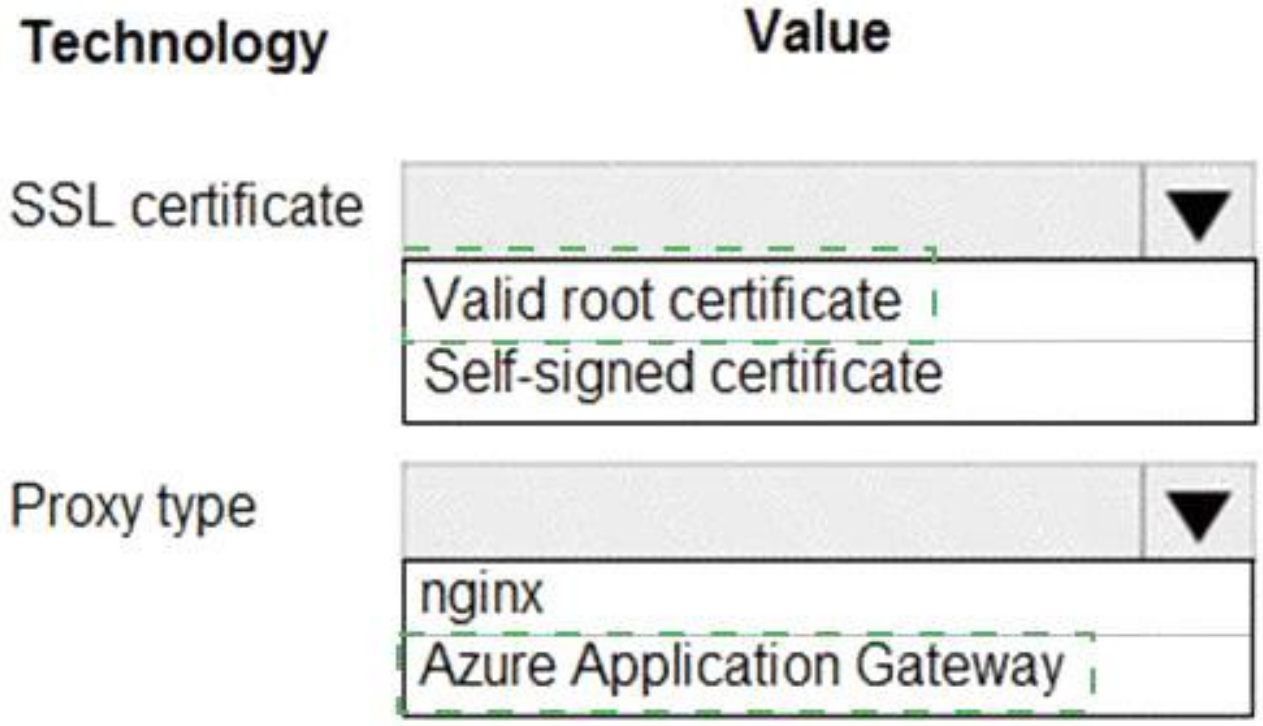
```
AM01 {
AM02      "id" : "2b079f03-9b06-2d44-98bb-e9182901fcb6",
AM03      "appId" : "7118a7f0-b5c2-4c9d-833c-3d711396fe65",
AM04
AM05      "createdDateTime" : "2019-12-24T06:01:44Z",
AM06      "logoUrl" : null,
AM07      "logoutUrl" : null,
AM08      "name" : "ContentAnalysisService",
AM09
AM10
AM11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

QUESTION NO: 11

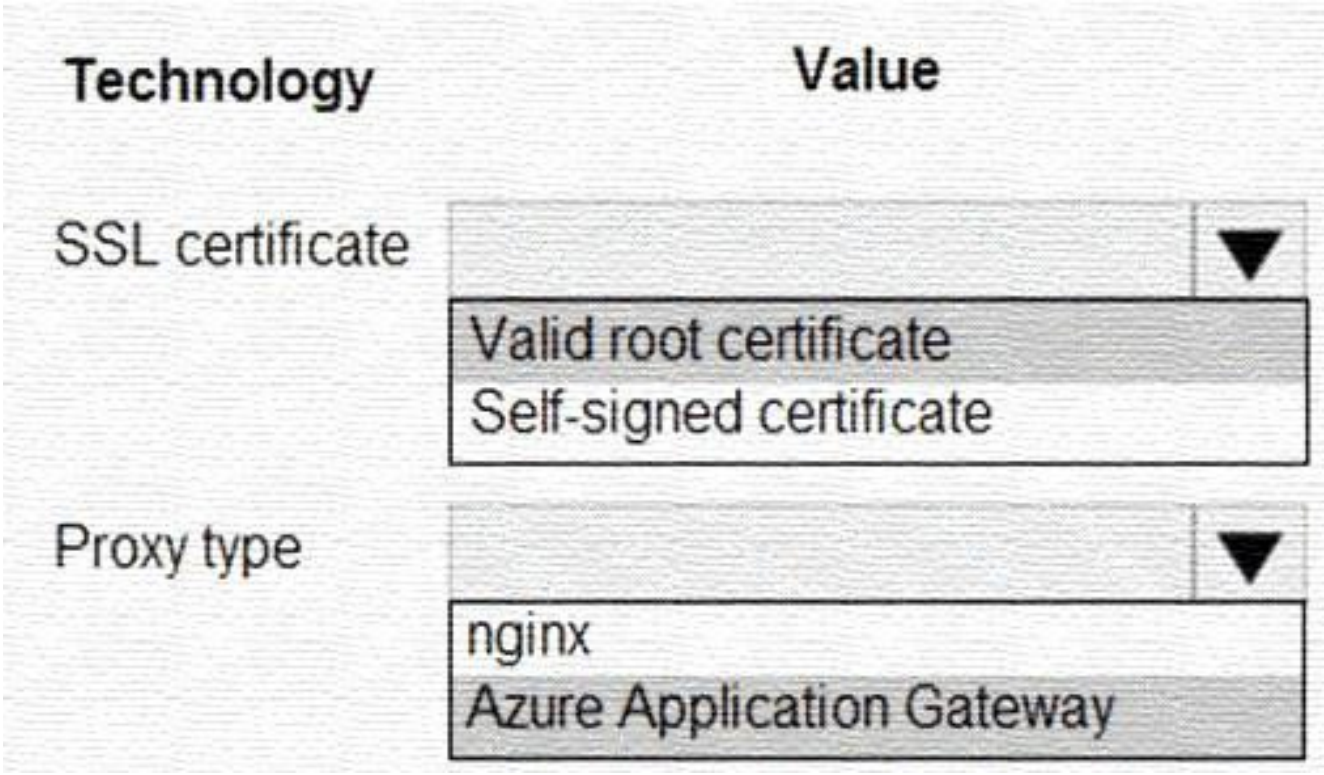
Sie müssen sicherstellen, dass die Netzwerksicherheitsrichtlinien eingehalten werden.
Wie sollten Sie die Netzwerksicherheit konfigurieren? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



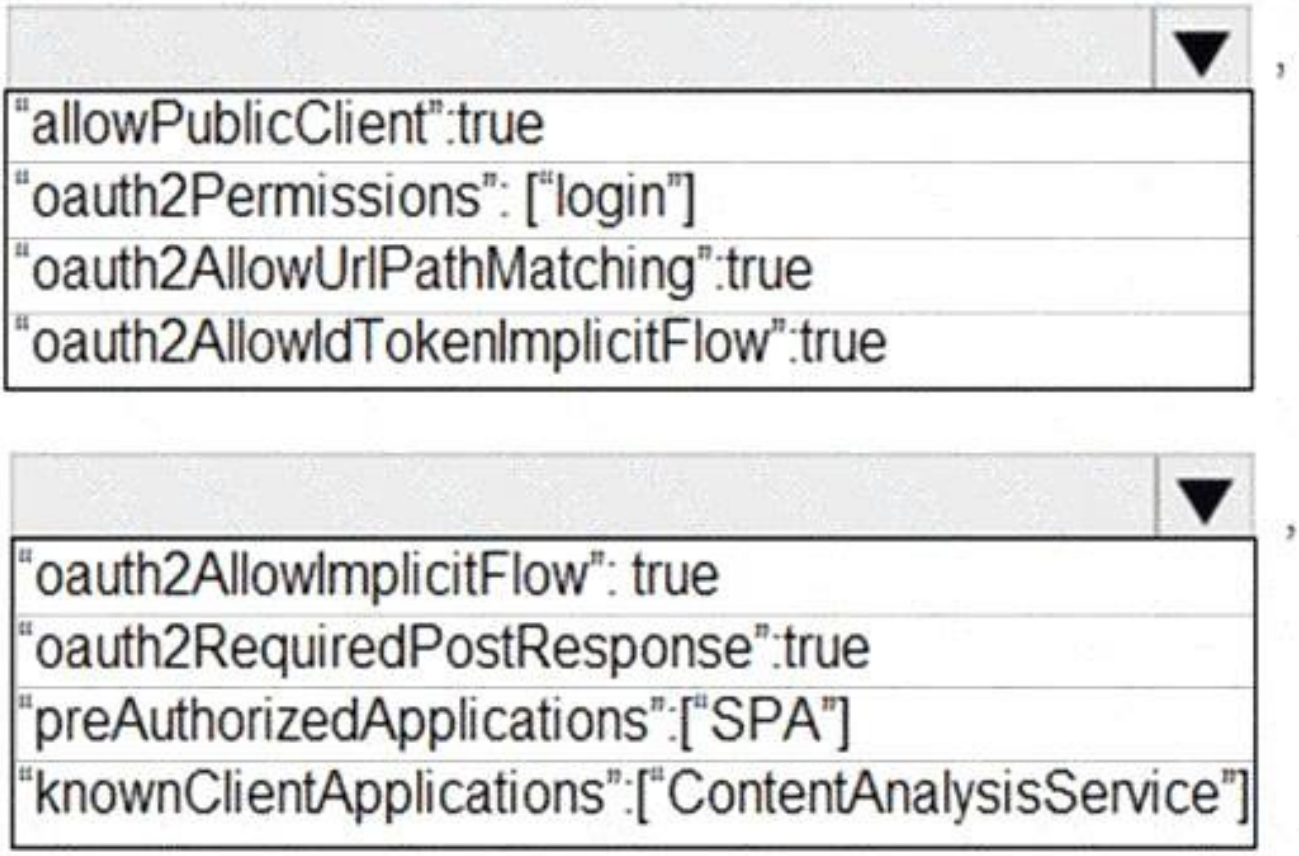
Explanation:



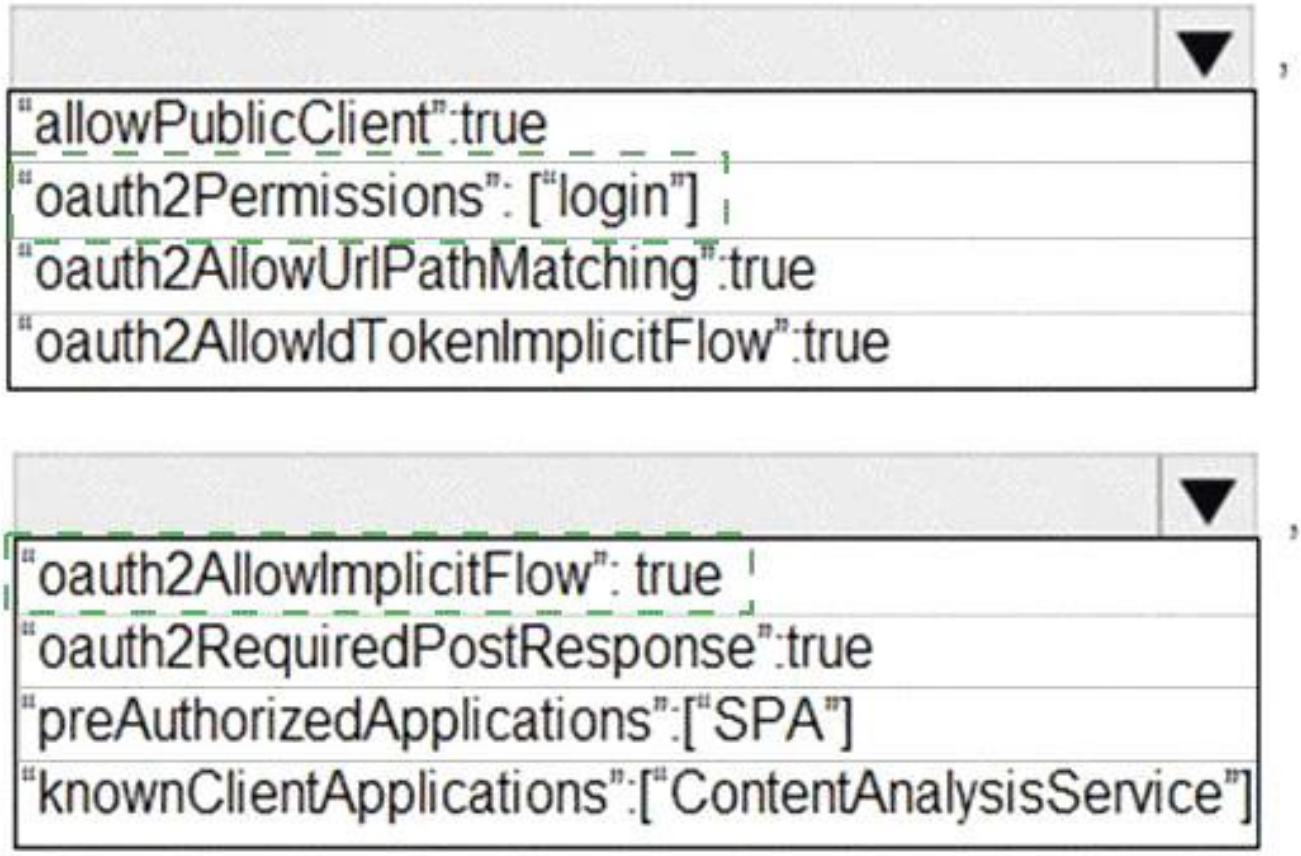
Box 1: Valid root certificate
Scenario: All websites and services must use SSL from a valid root certificate authority.
Box 2: Azure Application Gateway
Scenario:
Any web service accessible over the Internet must be protected from cross site scripting attacks.
All Internal services must only be accessible 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 loadbalancing 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 NO: 12
Sie müssen Code in Zeile AM09 hinzufügen, um sicherzustellen, dass Benutzer Inhalte mit

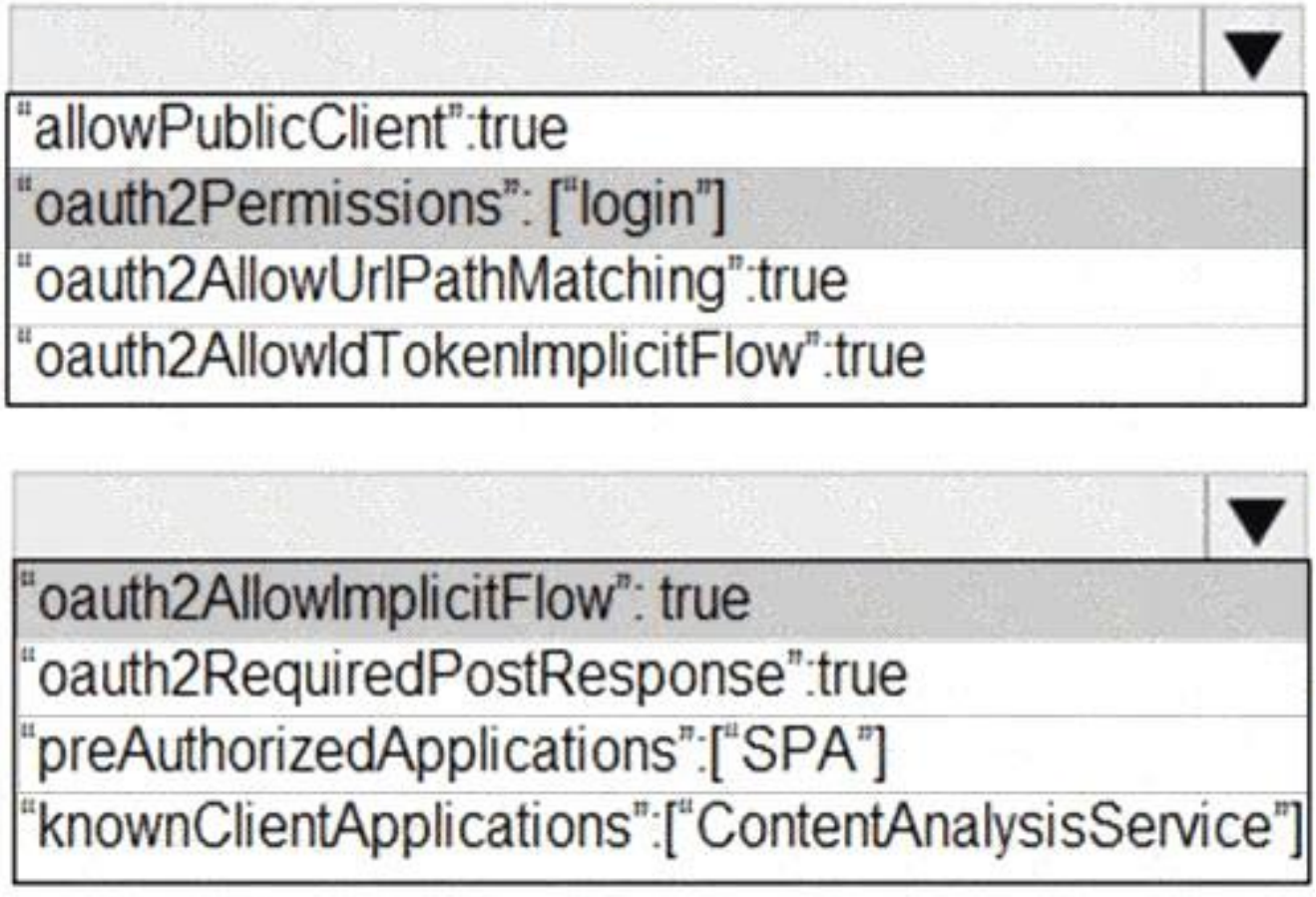
ContentAnalysisService überprüfen können.
Wie sollten Sie den Code vervollständigen? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



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 NO: 13
Sie müssen den ContentUploadService gemäß den Anforderungen überwachen.
Welchen Befehl sollten Sie verwenden?
A. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "avg Percentage CP U > 8"
B. az monitor metrics alert create -n alert -g ... - -scopes ... - -condition "avg Percentage CP U > 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"
Answer: B
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

QUESTION NO: 14
Sie müssen die Azure-Funktion CheckUserContent bereitstellen. Die Lösung muss den Sicherheits- und Kostenanforderungen genügen.
Welches Hosting-Modell sollten Sie verwenden?
A. Verbrauchsplan
B. Premium-Plan
C. App Service-Plan
Answer: C

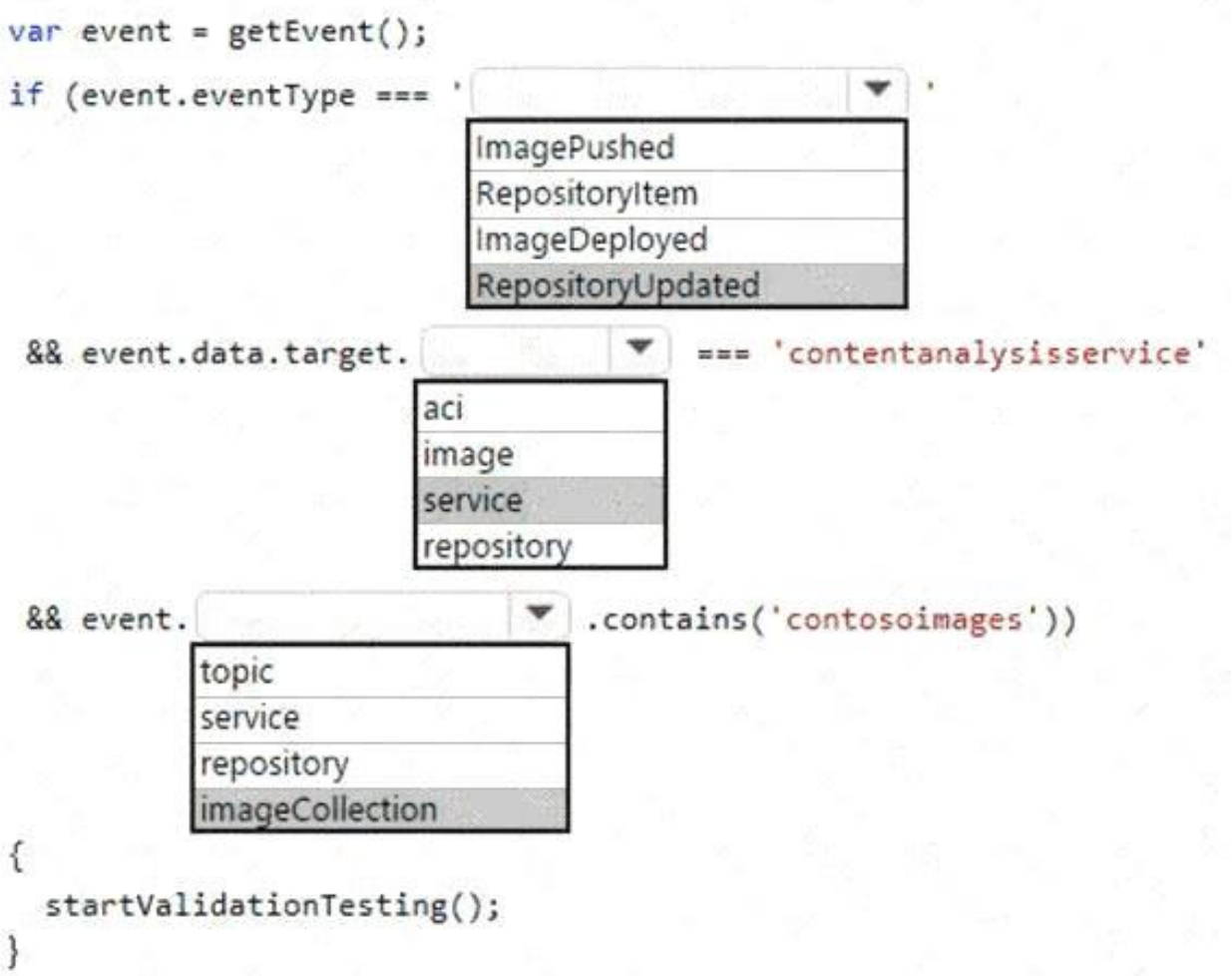
QUESTION NO: 15
Sie müssen sicherstellen, dass Validierungstests gemäß den Anforderungen ausgelöst werden.
Wie sollten Sie das Codesegment vervollständigen? Wählen Sie zur Beantwortung die entsprechenden Werte im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.

```
var event = getEvent();
if (event.eventType === '                    '
                         ImagePushed
                         RepositoryItem
                         ImageDeployed
                         RepositoryUpdated
 && event.data.target.                       === 'contentanalysisservice'
                         aci
                         image
                         service
                         repository
 && event.                    .contains('contosoimages'))
                topic
                service
                repository
                imageCollection
{
  startValidationTesting();
}
```

Answer:

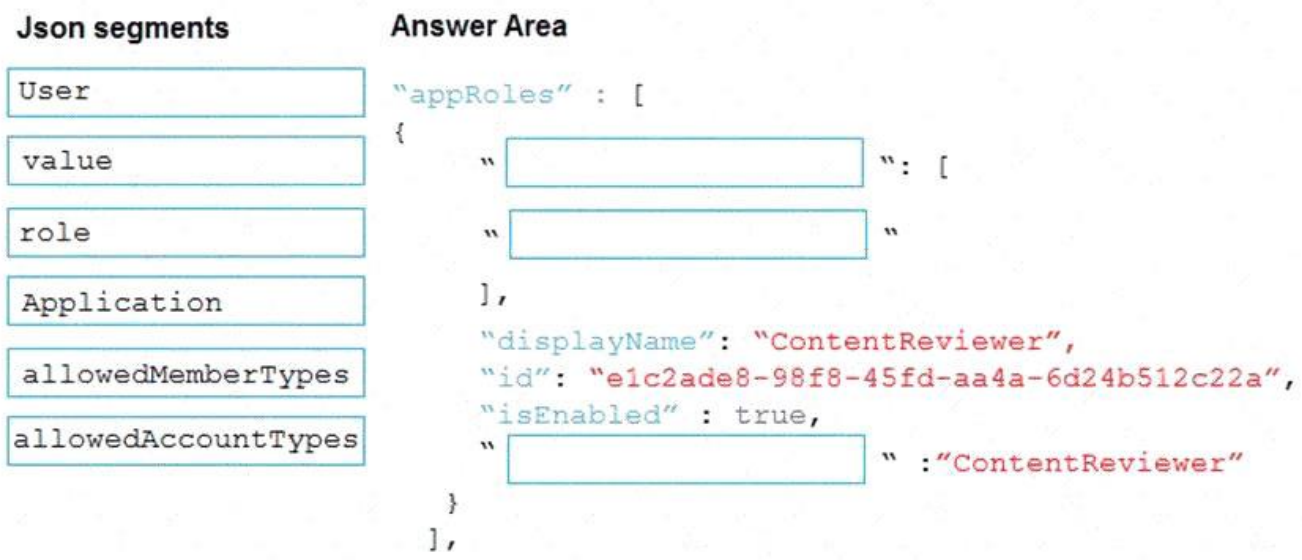
```
var event = getEvent();
if (event.eventType === '                    '
                         ImagePushed
                         RepositoryItem
                         ImageDeployed
                         RepositoryUpdated
 && event.data.target.                       === 'contentanalysisservice'
                         aci
                         image
                         service
                         repository
 && event.                    .contains('contosoimages'))
                         topic
                         service
                         repository
                         imageCollection
{
  startValidationTesting();
}
```

Explanation:

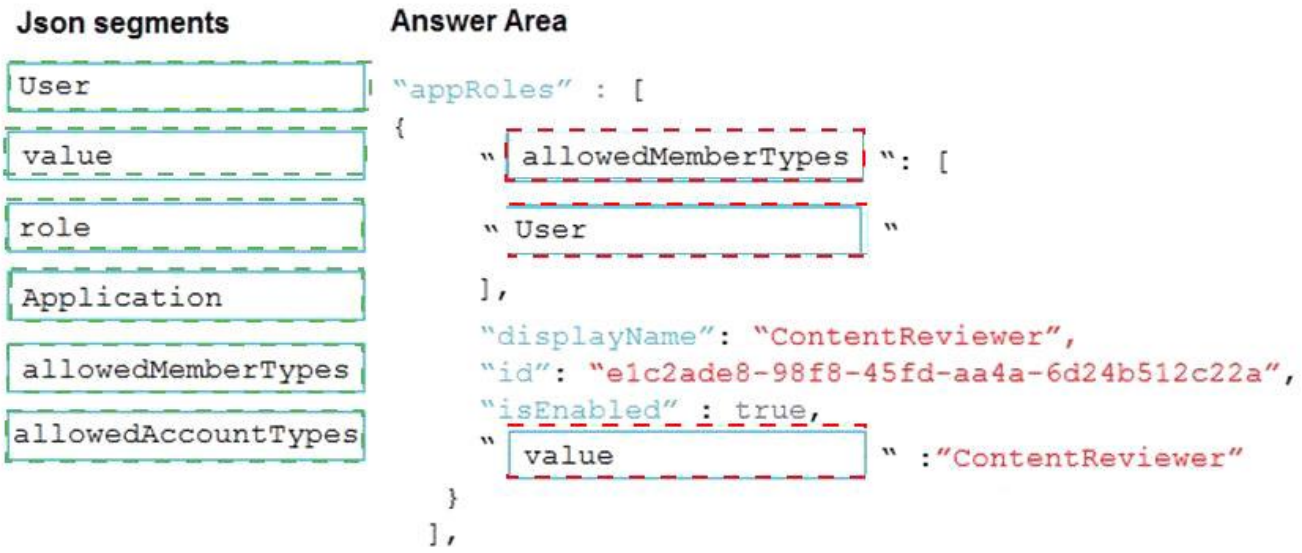


Box 1: RepositoryUpdated
When a new version of the ContentAnalysisService is available the previous seven days of content must be processed with the new version to verify that the new version does not significantly deviate from the old version.
Box 2: service
Box 3: imageCollection
Reference:
https://docs.microsoft.com/en-us/azure/devops/notifications/oob-supported-event-types

QUESTION NO: 16
Sie müssen Markup in Zeile AM04 hinzufügen, um die ContentReview-Rolle zu implementieren.
Wie sollten Sie das Markup vervollständigen? Um zu antworten, ziehen Sie die entsprechenden JSON-Segmente an die richtigen Stellen. Jedes JSON-Segment kann einmal, mehr als einmal oder überhaupt nicht verwendet werden. Möglicherweise müssen Sie die Teilungsleiste zwischen den Fenstern ziehen oder scrollen, um den Inhalt anzuzeigen.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



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 NO: 17

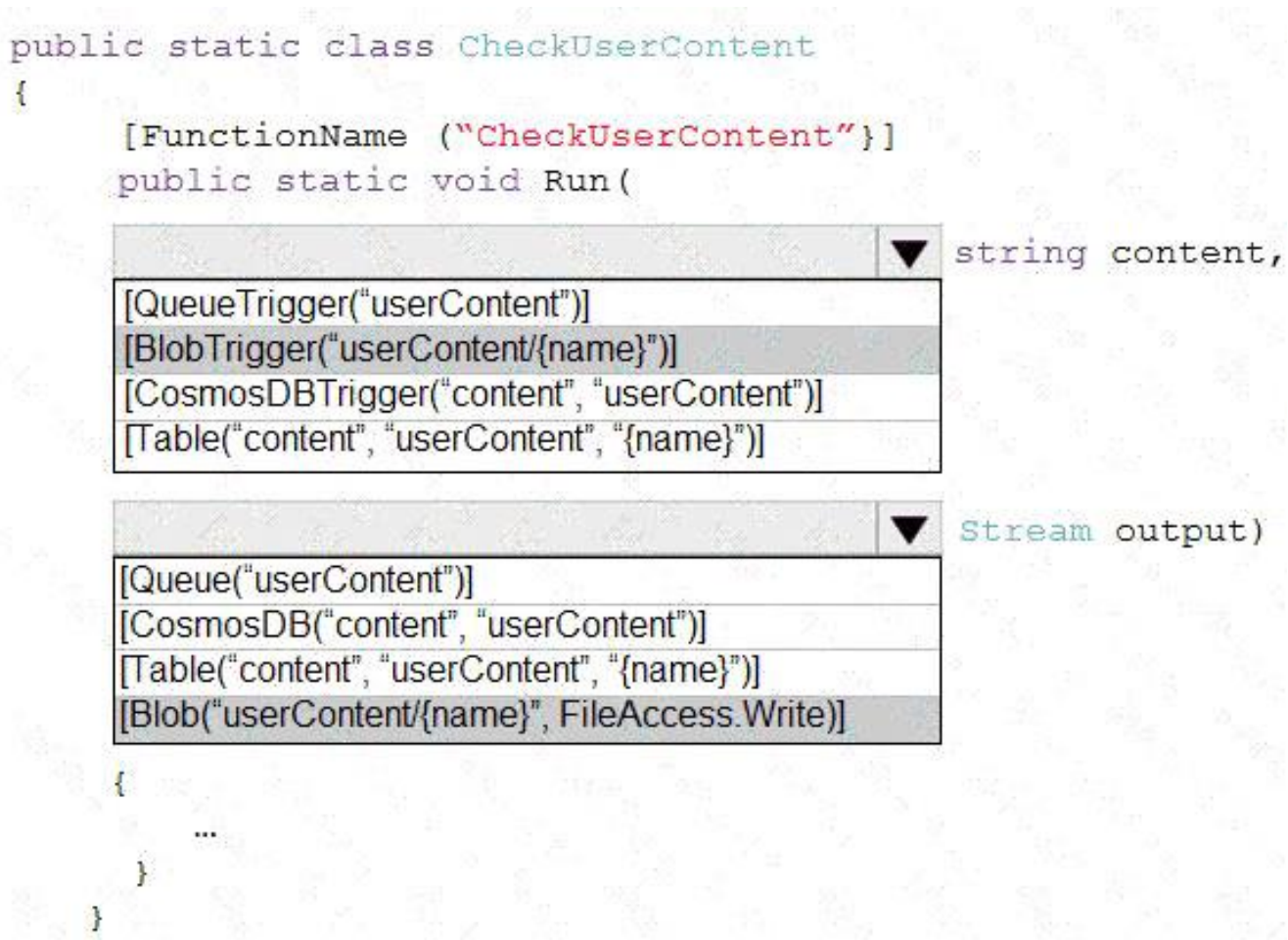
Sie müssen die Bindungen für die CheckUserContent-Funktion implementieren.
Wie sollten Sie das Codesegment vervollständigen? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.

```
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)
    {
        ...
    }
}
```

Answer:

```
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)
    {
        ...
    }
}
```

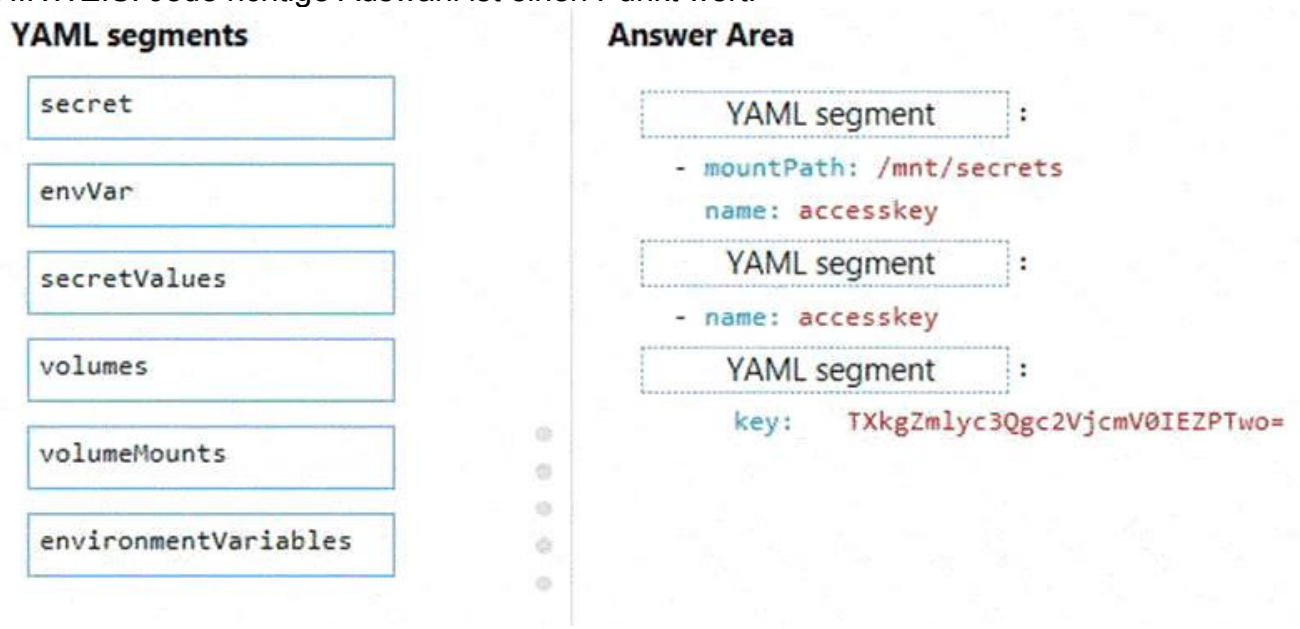
Explanation:



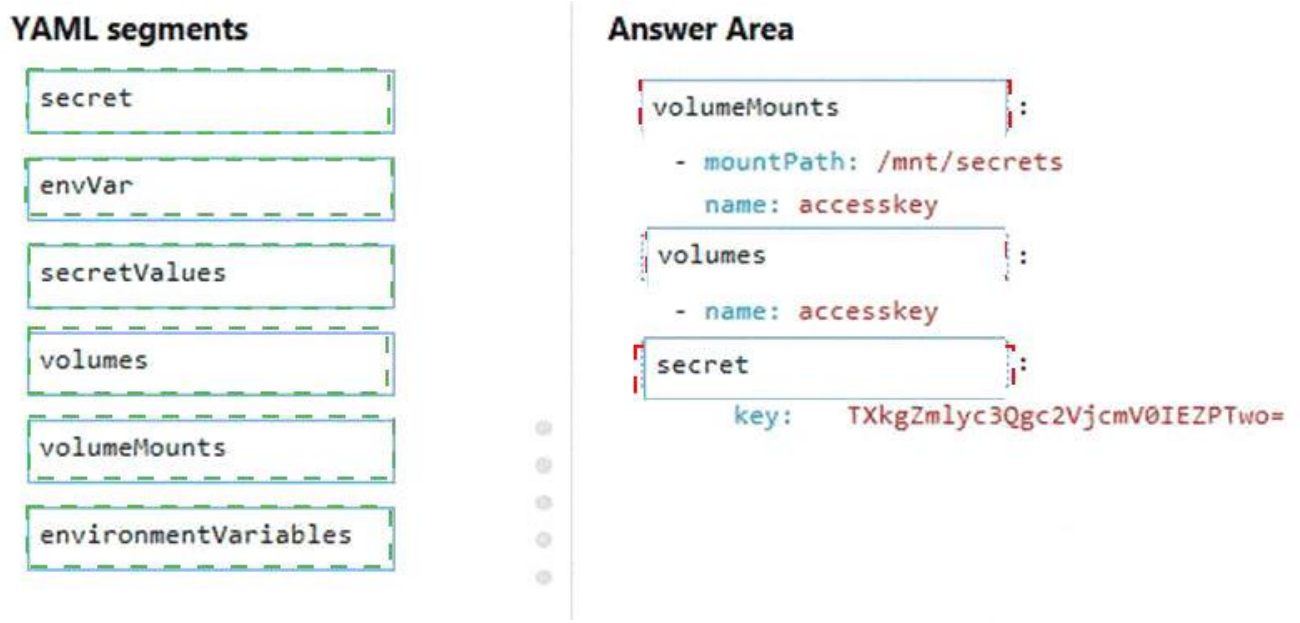
Box 1: [BlobTrigger(..)]
Box 2: [Blob(..)]
Azure Blob storage output binding for Azure Functions. The output binding allows you to modify and delete blob storage data in an Azure Function.
The attribute ' s constructor takes the path to the blob and a FileAccess parameter indicating read or write, as 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.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-output

QUESTION NO: 18
Sie müssen YAML-Markup in Zeile CS17 hinzufügen, um sicherzustellen, dass der

ContentUploadService auf Azure Storage-Zugriffsschlüssel zugreifen kann.
Wie sollten Sie das YAML-Markup vervollständigen? Ziehen Sie zum Antworten die entsprechenden YAML-Segmente an die richtigen Stellen. Jedes YAML-Segment kann einmal, mehr als einmal oder überhaupt nicht verwendet werden. Möglicherweise müssen Sie die Teilungsleiste zwischen den Fenstern ziehen oder scrollen, um den Inhalt anzuzeigen.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



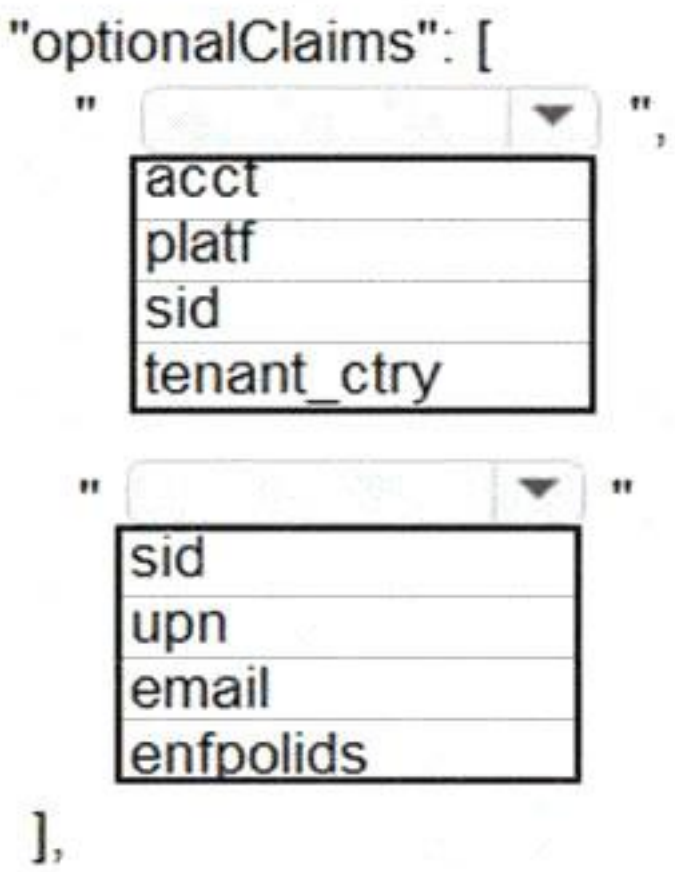
Answer:



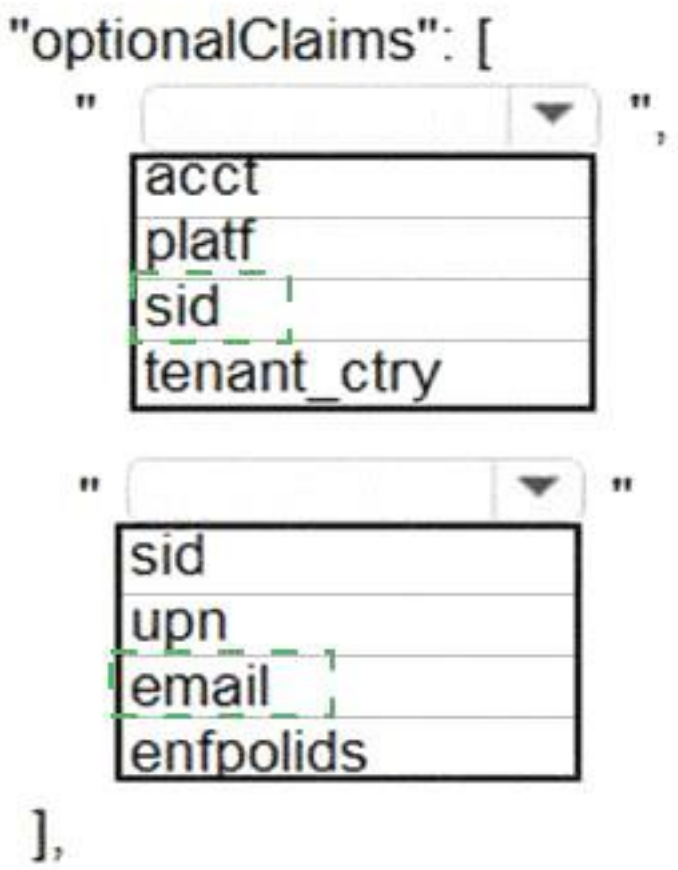
Explanation:

Box 1: volumeMounts
Example:
volumeMounts:
- mountPath: /mnt/secrets
name: secretvolume1
volumes:
- name: secretvolume1
secret:
mysecret1: TXkgZmlyc3Qgc2VjcmV0IEZPTwo=
Box 2: volumes
Box 3: secret
Reference:
https://docs.microsoft.com/en-us/azure/container-instances/container-instances-volume-secret

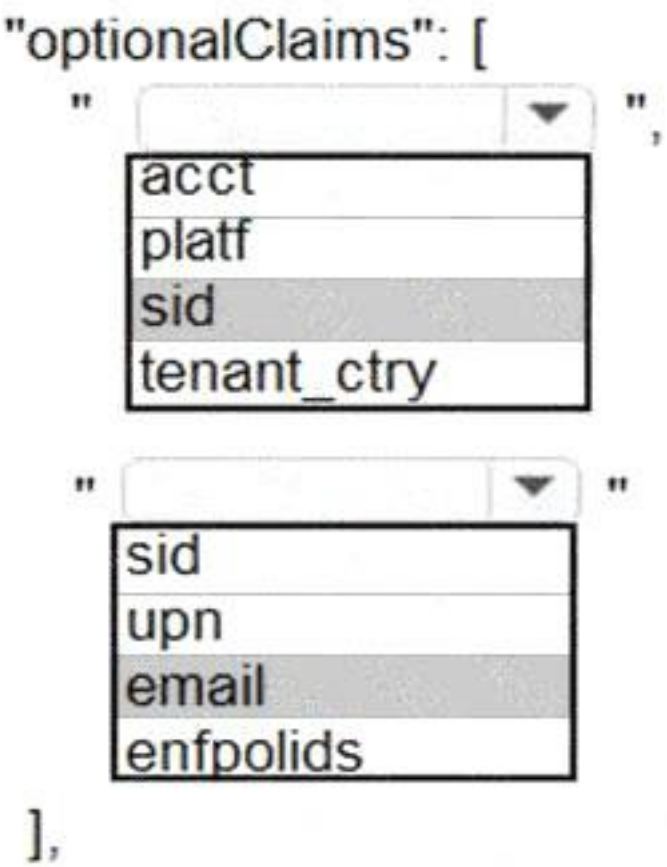
QUESTION NO: 19
Sie müssen Code in Zeile AM10 des Anwendungsmanifests hinzufügen, um sicherzustellen, dass die Anforderung zum manuellen Überprüfen von Inhalten erfüllt werden kann.
Wie sollten Sie den Code vervollständigen? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.


"optionalClaims": [
"
";
acct
platf
sid
tenant_ctry
"
"
sid
upn
email
enfpolids
],

Answer:



Explanation:



Box 1: sid
Sid: Session ID, used for per-session user sign-out. Personal and Azure AD accounts.
Scenario: 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.
Box 2: email
Scenario: All completed reviews must include the reviewer's email address for auditing purposes.

QUESTION NO: 20
Sie müssen die Nutzungsvereinbarungen speichern.
Wo sollten Sie die Vereinbarung nach Abschluss aufbewahren?
A. Azure Storage-Warteschlange
B. Azure Event Hub
C. Azure Service Bus-Thema
D. Azure Event Grid-Thema
Answer: B
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 NO: 21
Sie müssen die Protokollausgabe des HTTP-Servers untersuchen, um das Problem mit dem ContentUploadService zu beheben.
Welchen Befehl sollten Sie zuerst verwenden?
A. das Webapp-Protokoll
B. az ams Live-Ausgabe
C. az Monitor-Aktivitätsprotokoll
D. az-Container anhängen
Answer: C
Explanation:
Scenario: Users of the ContentUploadService report that they occasionally see HTTP 502 responses on specific pages.
" 502 bad gateway " and " 503 service unavailable " are common errors in your app hosted in Azure App Service.

Microsoft Azure publicizes each time there is a service interruption or performance degradation.
The az monitor activity-log command manages activity logs.
Note: Troubleshooting can be divided into three distinct tasks, in sequential order:
Observe and monitor application behavior
Collect data
Mitigate the issue
Reference:
https://docs.microsoft.com/en-us/cli/azure/monitor/activity-log

QUESTION NO: 22
Sie müssen die ContentUploadService-Bereitstellung konfigurieren.
Welche zwei Aktionen sollten Sie ausführen? Jede richtige Antwort stellt einen Teil der Lösung dar.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.
A. Fügen Sie der Zeile CS23 das folgende Markup hinzu:
Typen: Privat
B. Fügen Sie der Zeile CS24 das folgende Markup hinzu:
Betriebssystemtyp: Windows
C. Fügen Sie der Zeile CS24 das folgende Markup hinzu:
Betriebssystemtyp: Linux
D. Fügen Sie der Zeile CS23 das folgende Markup hinzu:
Typen: Öffentlich
Answer: A C
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/
Topic 3, City Power & Light
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 Next 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 Question button to return to the question.

Background

City Power & Light company provides electrical infrastructure monitoring solutions for homes and businesses. The company is migrating solutions to Azure.

Current environment

Architecture overview

The

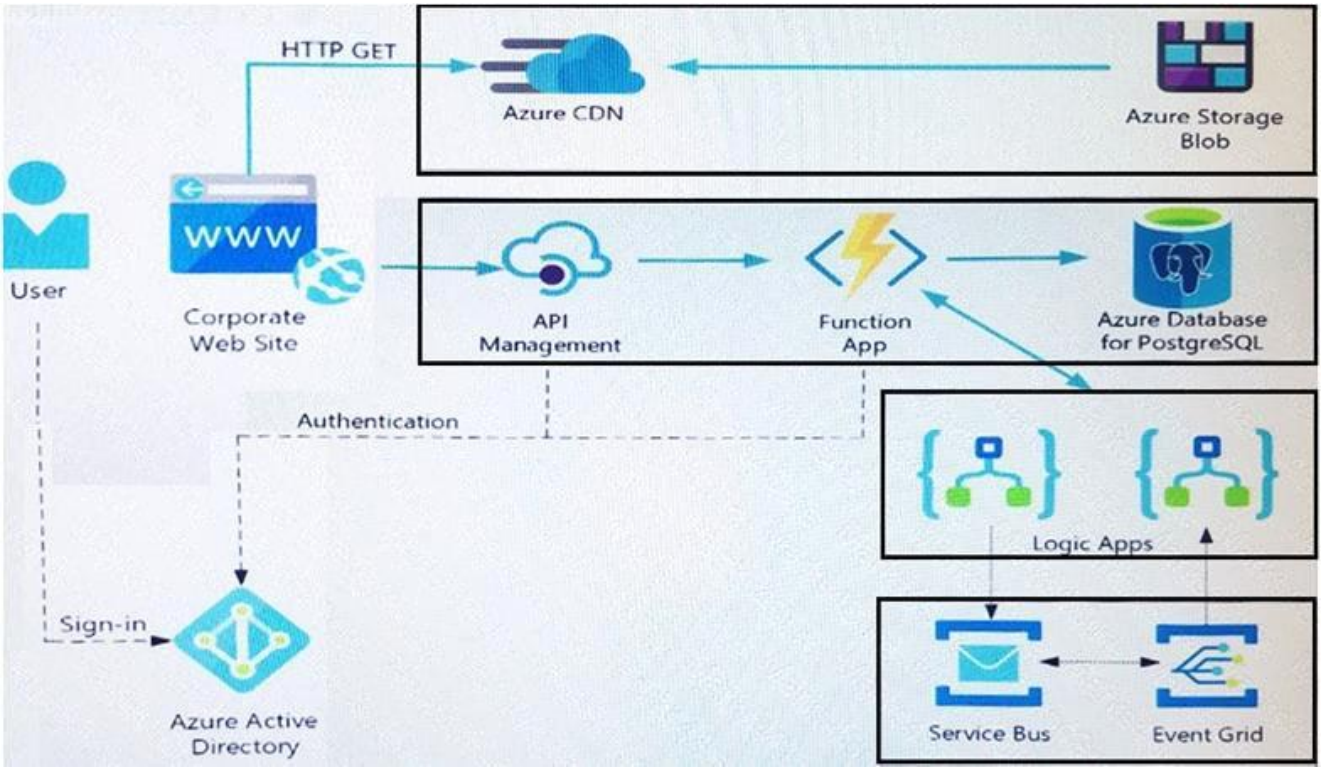
company has a public website located at http://www.cpandl.com/. The site is a single-page web application that runs in Azure App Service on Linux. The website uses files stored in Azure Storage and cached in Azure Content Delivery Network (CDN) to serve static content.

API Management and Azure Function App functions are used to process and store data in Azure Database for PostgreSQL. API Management is used to broker communications to the Azure Function app functions for Logic app integration. Logic apps are used to orchestrate the data processing while Service Bus and Event Grid handle messaging and events.

The solution uses Application Insights, Azure Monitor, and Azure Key Vault.

Architecture diagram

The company has several applications and services that support their business. The company plans to implement serverless computing where possible. The overall architecture is shown below.



User authentication

The following steps detail the user authentication process:

The user selects Sign in in the website.

The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.

The user signs in.

Azure AD redirects the user's session back to the web application. The URL includes an access token.

The web application calls an API and includes the access token in the authentication header.
The application ID is sent as the audience ('aud') claim in the access token.
The back-end API validates the access token.
Requirements
Corporate website
Communications and content must be secured by using SSL.
Communications must use HTTPS.
Data must be replicated to a secondary region and three availability zones.
Data storage costs must be minimized.
Azure Database for PostgreSQL
The database connection string is stored in Azure Key Vault with the following attributes:
Azure Key Vault name: cpandlkeyvault
Secret name: PostgreSQLConn
Id: 80df3e46ffcd4f1cb187f79905e9a1e8
The connection information is updated frequently. The application must always use the latest information to connect to the database.
Azure Service Bus and Azure Event Grid
Azure Event Grid must use Azure Service Bus for queue-based load leveling.
Events in Azure Event Grid must be routed directly to Service Bus queues for use in buffering.
Events from Azure Service Bus and other Azure services must continue to be routed to Azure Event Grid for processing.
Security
All SSL certificates and credentials must be stored in Azure Key Vault.
File access must restrict access by IP, protocol, and Azure AD rights.
All user accounts and processes must receive only those privileges which are essential to perform their intended function.
Compliance
Auditing of the file updates and transfers must be enabled to comply with General Data Protection Regulation (GDPR). The file updates must be read-only, stored in the order in which they occurred, include only create, update, delete, and copy operations, and be retained for compliance reasons.
Issues
Corporate website
While testing the site, the following error message displays:
CryptographicException: The system cannot find the file specified.
Function app
You perform local testing for the RequestUserApproval function. The following error message displays:
' Timeout value of 00:10:00 exceeded by function: RequestUserApproval ' The same error message displays when you test the function in an Azure development environment when you run the following Kusto query:
FunctionAppLogs
| where FunctionName = = " RequestUserApproval "
Logic app

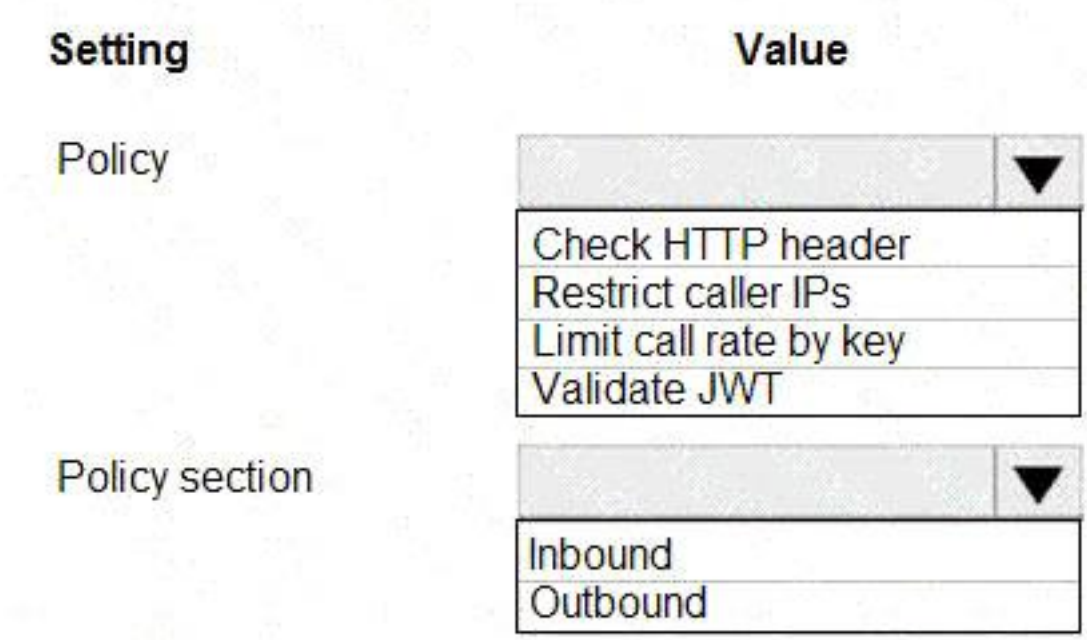
You test the Logic app in a development environment. The following error message displays:
' 400 Bad Request '
Troubleshooting of the error shows an HttpTrigger action to call the RequestUserApproval function.
Code
Corporate website
Security.cs:

```
SC01 public class Security
SC02 {
SC03 var bytes = System.IO.File.ReadAllBytes("~/var/ssl/private");
SC04 var cert = new System.Security.Cryptography.X509Certificate2(bytes);
SC05 var certName = cert.FriendlyName;
SC06 }
```

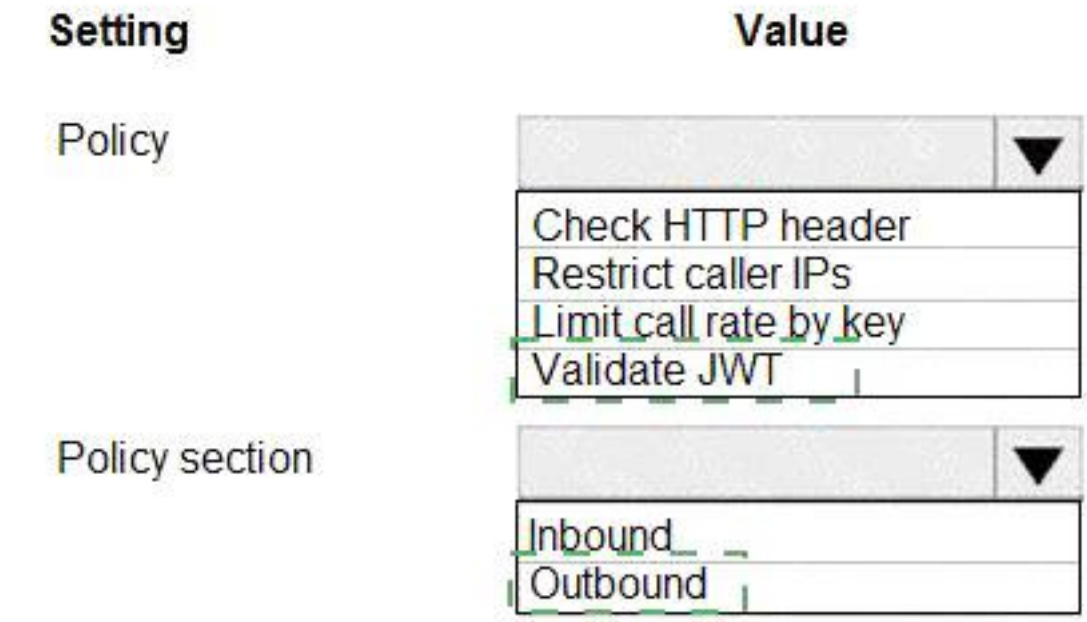
Function app
RequestUserApproval.cs:

```
RA01 public static class RequestUserApproval
RA02 {
RA03 [FunctionName("RequestUserApproval")]
RA04 public static async Task<IActionResult> Run(
RA05 [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)] HttpRequest req.
ILogger log)
RA06 {
RA07    log.LogInformation("RequestUserApproval function processed a request.");
RA08 ...
RA09 return ProcessRequest(req)
RA10    ? (ActionResult)new OkObjectResult($"User approval processed")
RA11    : new BadRequestObjectResult("Failed to process user approval");
RA12 }
RA13 private static bool ProcessRequest(HttpRequest req)
RA14 {
RA15    ...
RA16 }
RA17 }
```

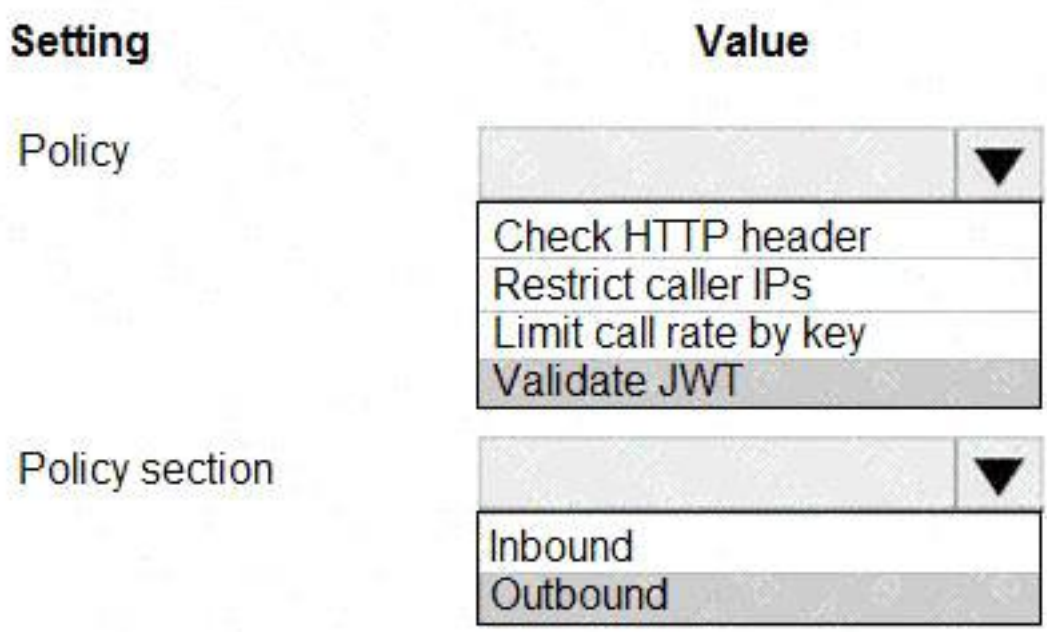
QUESTION NO: 23
Sie müssen API Management für die Authentifizierung konfigurieren.
Welche Richtlinienwerte sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



Explanation:

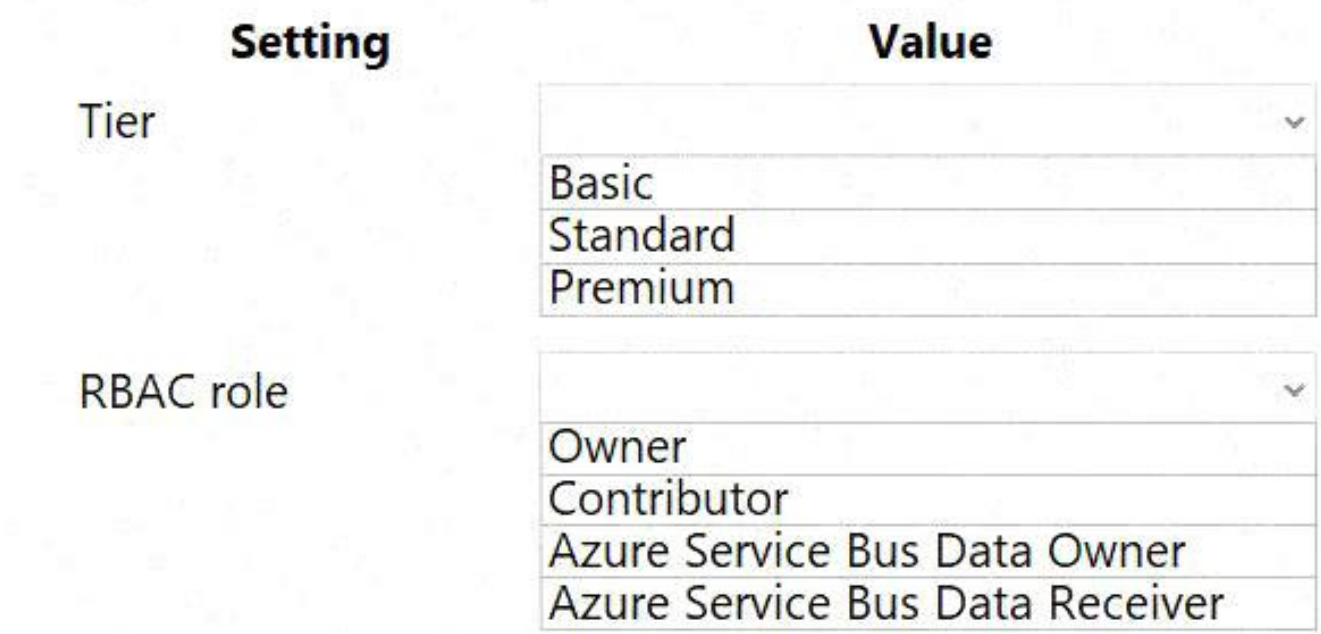


Box 1: Validate JWT
The validate-jwt policy enforces existence and validity of a JWT extracted from either a specified HTTP Header or a specified query parameter.
Scenario: User authentication (see step 5 below)
The following steps detail the user authentication process:
The user selects Sign in in the website.
The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.
The user signs in.
Azure AD redirects the user's session back to the web application. The URL includes an access token.
The web application calls an API and includes the access token in the authentication header.
The application ID is sent as the audience ('aud') claim in the access token.
The back-end API validates the access token.
Box 2: Outbound
Reference:
https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies

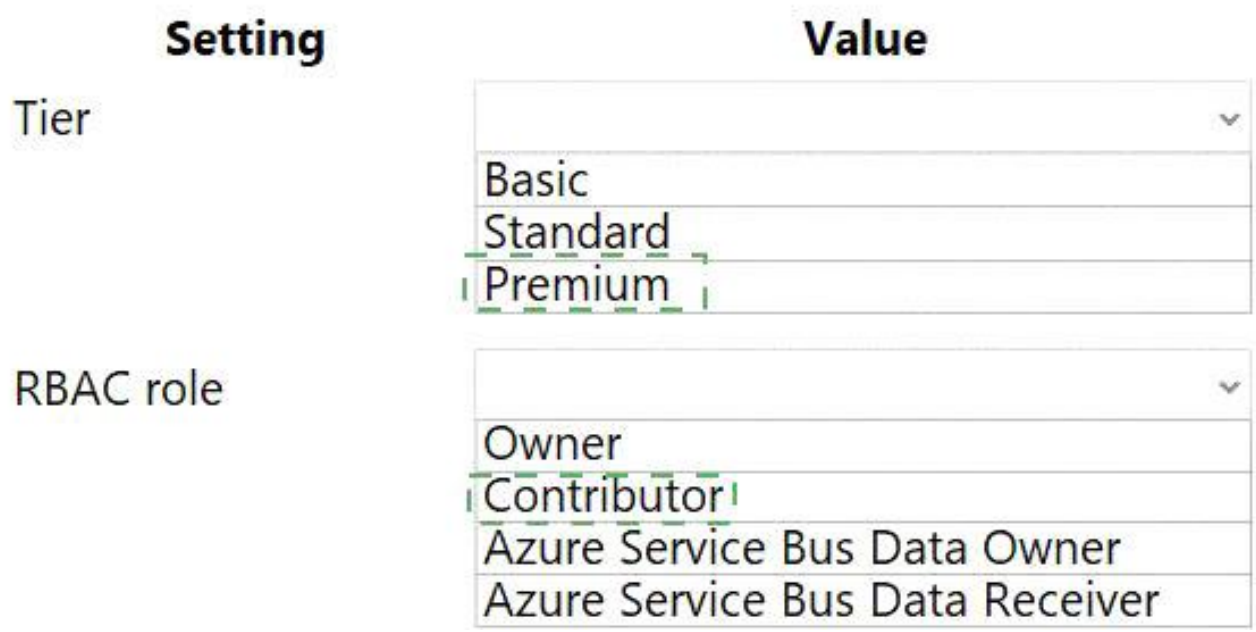
QUESTION NO: 24
Sie müssen den App-Fehler „RequestUserApproval Function“ beheben.
Was sollten Sie tun?
A. Aktualisieren Sie Zeile RA13, um das Schlüsselwort „async“ zu verwenden und einen HttpRequest-Objektwert zurückzugeben.
B. Konfigurieren Sie die Funktions-App für die Verwendung eines App Service-Hostingplans. Aktivieren Sie die Einstellung „Always On“ des Hostingplans.
C. Aktualisieren Sie die Funktion, sodass sie zustandsbehaftet ist, indem Sie Durable Functions zum Verarbeiten der Anforderungsnutzlast verwenden.
D. Aktualisieren Sie die functionTimeout-Eigenschaft der Projektdatei host.json auf 15 Minuten.

Answer: C
Explanation:
Async operation tracking
The HTTP response mentioned previously is designed to help implement long-running HTTP async APIs with Durable Functions. This pattern is sometimes referred to as the polling consumer pattern.
Both the client and server implementations of this pattern are built into the Durable Functions HTTP APIs.
Function app
You perform local testing for the RequestUserApproval function. The following error message displays:
' Timeout value of 00:10:00 exceeded by function: RequestUserApproval ' The same error message displays when you test the function in an Azure development environment when you run the following Kusto query:
FunctionAppLogs
| where FunctionName = = " RequestUserApproval "
References:
https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-http-features

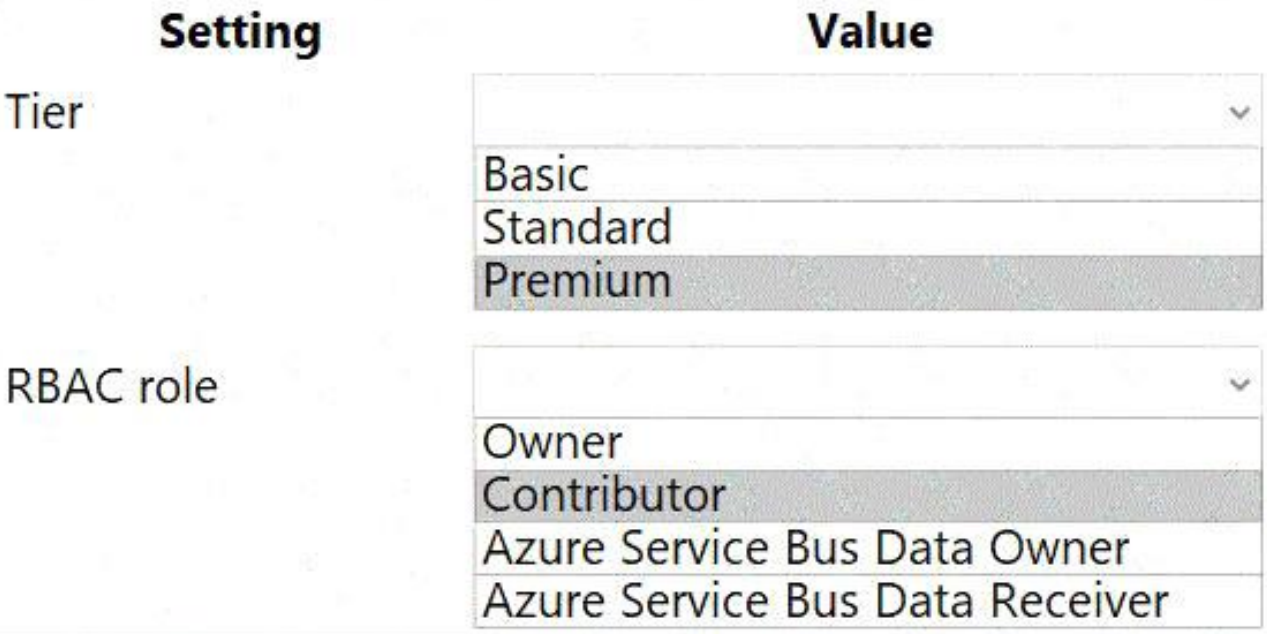
QUESTION NO: 25
Sie müssen die Integration von Azure Service Bus in Event Grid konfigurieren.
Welche Azure Service Bus-Einstellungen sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



Explanation:



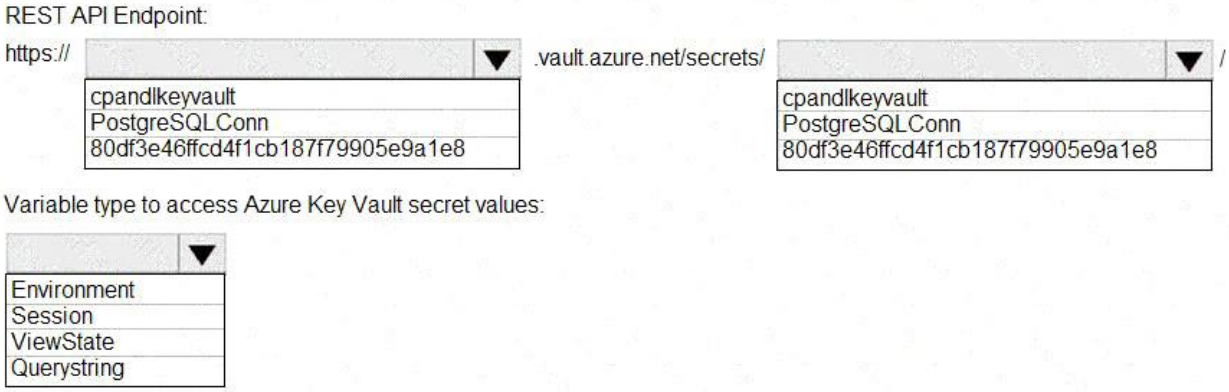
Box 1: Premium
Service Bus can now emit events to Event Grid when there are messages in a queue or a subscription when no receivers are present. You can create Event Grid subscriptions to your Service Bus namespaces, listen to these events, and then react to the events by starting a receiver. With this feature, you can use Service Bus in reactive programming models.
To enable the feature, you need the following items:
A Service Bus Premium namespace with at least one Service Bus queue or a Service Bus topic with at least one subscription.
Contributor access to the Service Bus namespace.
Box 2: Contributor
Reference:
https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-to-event-grid-integration-concept

QUESTION NO: 26

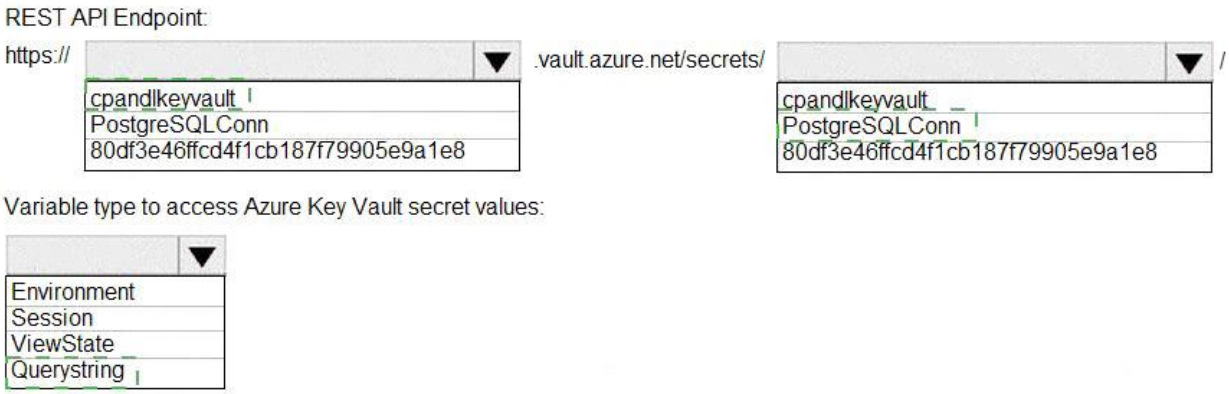
Sie müssen die Datenbankverbindungszeichenfolge abrufen.

Welche Werte sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.

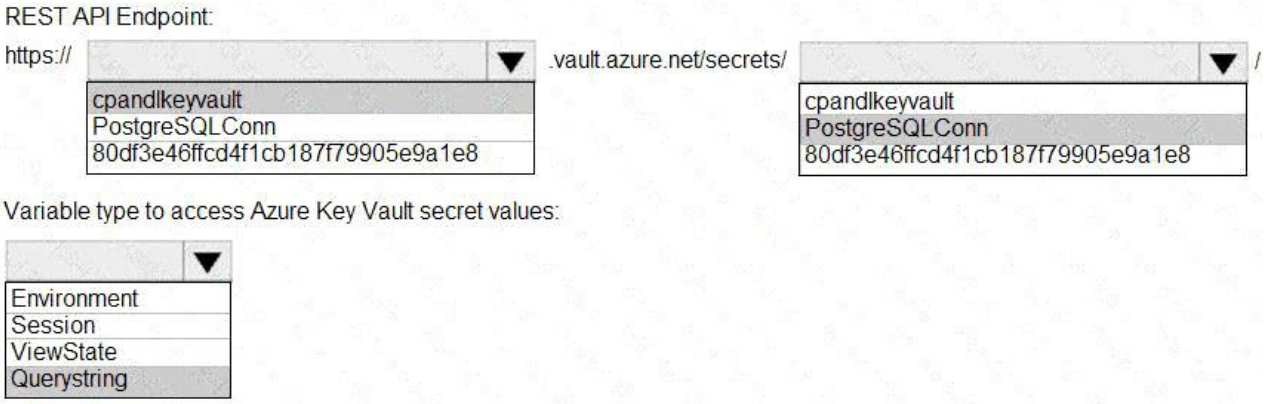
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



Explanation:



Azure database connection string retrieve REST API vault.azure.net/secrets/ Box 1: cpandlkeyvault We specify the key vault, cpandlkeyvault.

Scenario: The database connection string is stored in Azure Key Vault with the following attributes:

Azure Key Vault name: cpandlkeyvault

Secret name: PostgreSQLConn

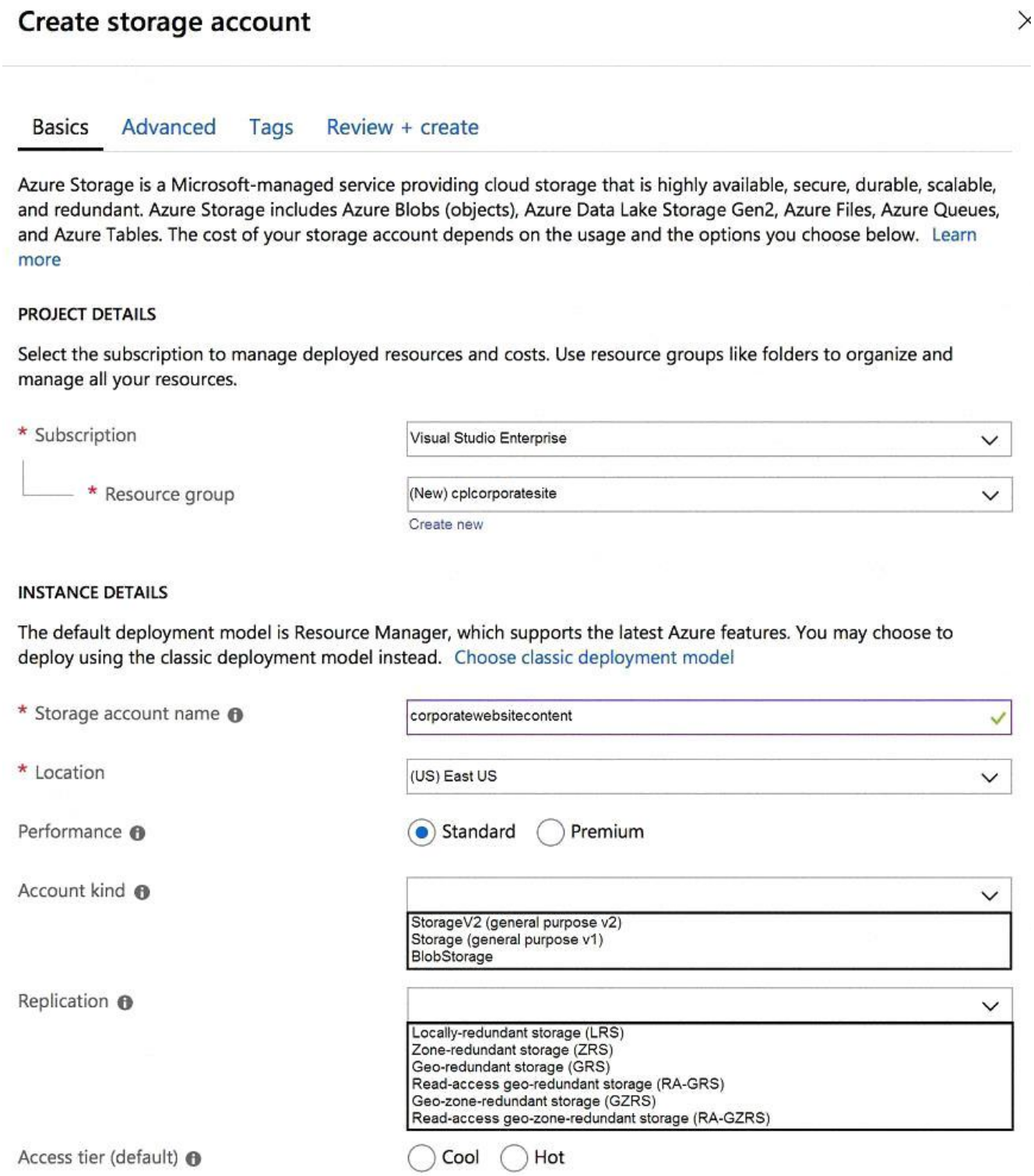
Id: 80df3e46ffcd4f1cb187f79905e9a1e8

Box 2: PostgreSQLConn
We specify the secret, PostgreSQLConn
Example, sample request:
https://myvault.vault.azure.net//secrets/mysecretname/4387e9f3d6e14c459867679a90fd0f79
?api-version=7.1 Box 3: Querystring Reference:
https://docs.microsoft.com/en-us/rest/api/keyvault/getsecret/getsecret

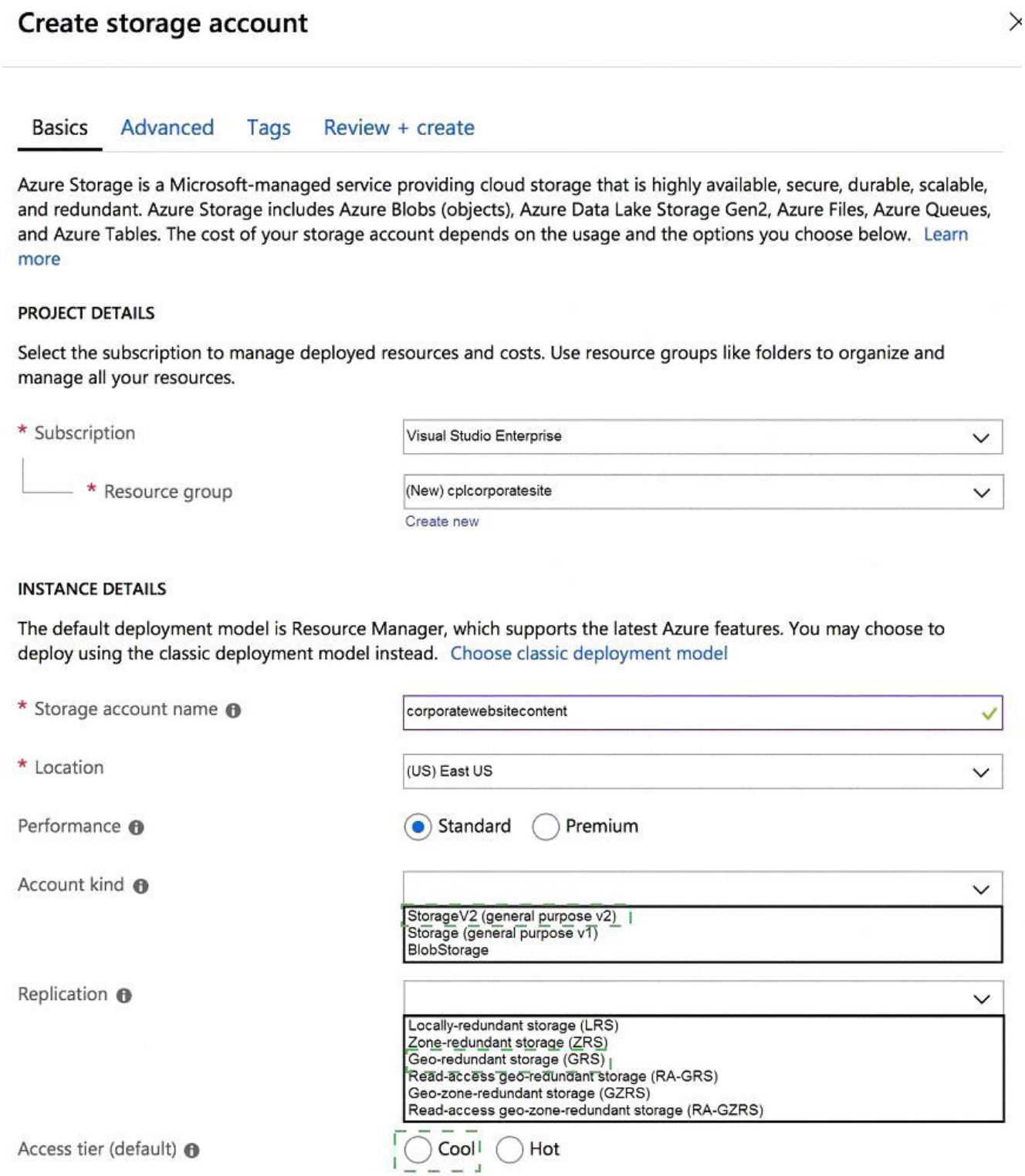
QUESTION NO: 27
Sie müssen den Benutzer auf der Unternehmenswebsite authentifizieren, wie im Architekturdiagramm angegeben.
Welche zwei Werte sollten Sie verwenden? Jede richtige Antwort stellt einen Teil der Lösung dar.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.
A. ID-Token-Signatur
B. ID-Token-Ansprüche
C. HTTP-Antwortcode
D. Azure AD-Endpunkt-URI
E. Azure AD-Mandanten-ID
Answer: A D
Explanation:
Claims in access tokens
JWTs (JSON Web Tokens) are split into three pieces:
Header - Provides information about how to validate the token including information about the type of token and how it was signed.
Payload - Contains all of the important data about the user or app that is attempting to call your service.
Signature - Is the raw material used to validate the token.
Your client can get an access token from either the v1.0 endpoint or the v2.0 endpoint using a variety of protocols.
Scenario: User authentication (see step 5 below)
The following steps detail the user authentication process:
The user selects Sign in in the website.
The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.
The user signs in.
Azure AD redirects the user's session back to the web application. The URL includes an access token.
The web application calls an API and includes the access token in the authentication header.
The application ID is sent as the audience ('aud') claim in the access token.
The back-end API validates the access token.
Reference:
https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies

QUESTION NO: 28
Sie müssen die Optionen Kontotyp, Replikation und Speicherebene für das Azure Storage-

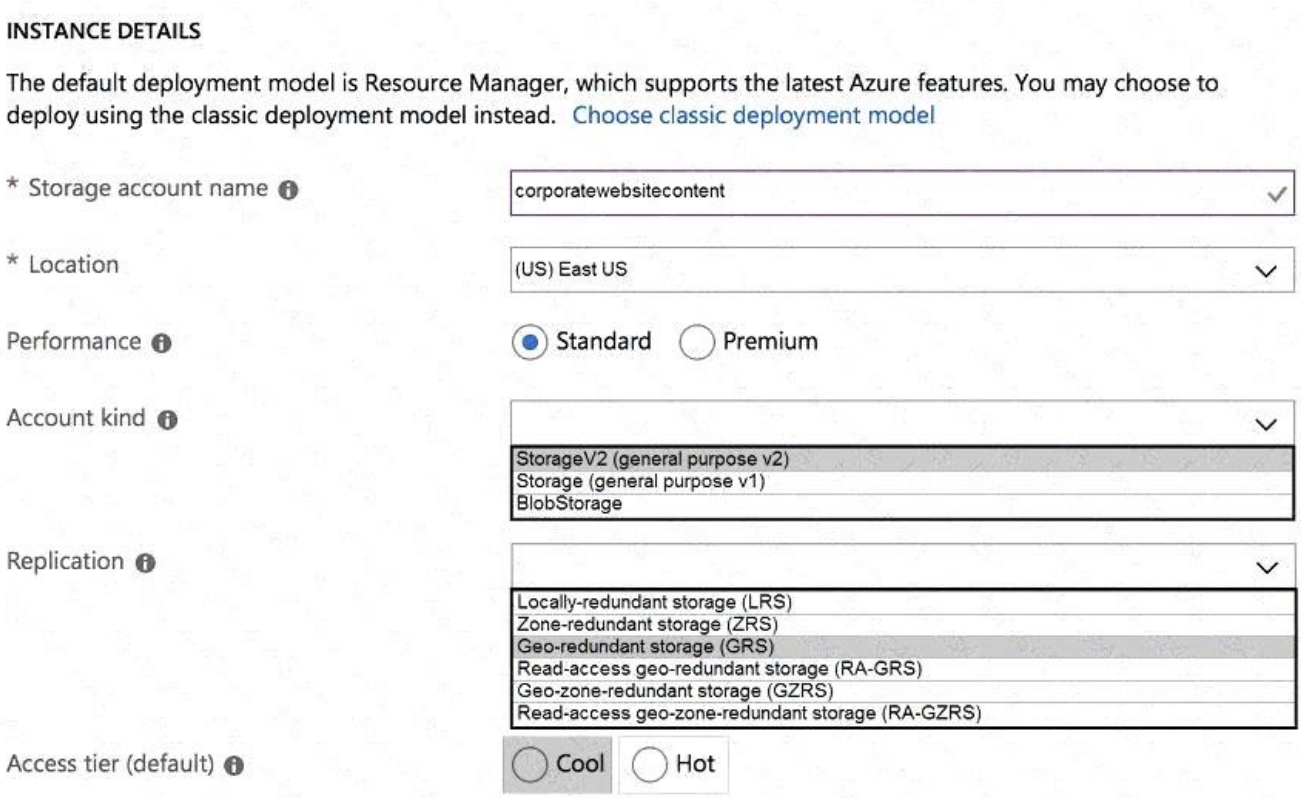
Konto der Unternehmenswebsite konfigurieren.
Wie sollten Sie die Konfiguration abschließen? Um zu antworten, wählen Sie die entsprechenden Optionen im Dialogfeld im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:

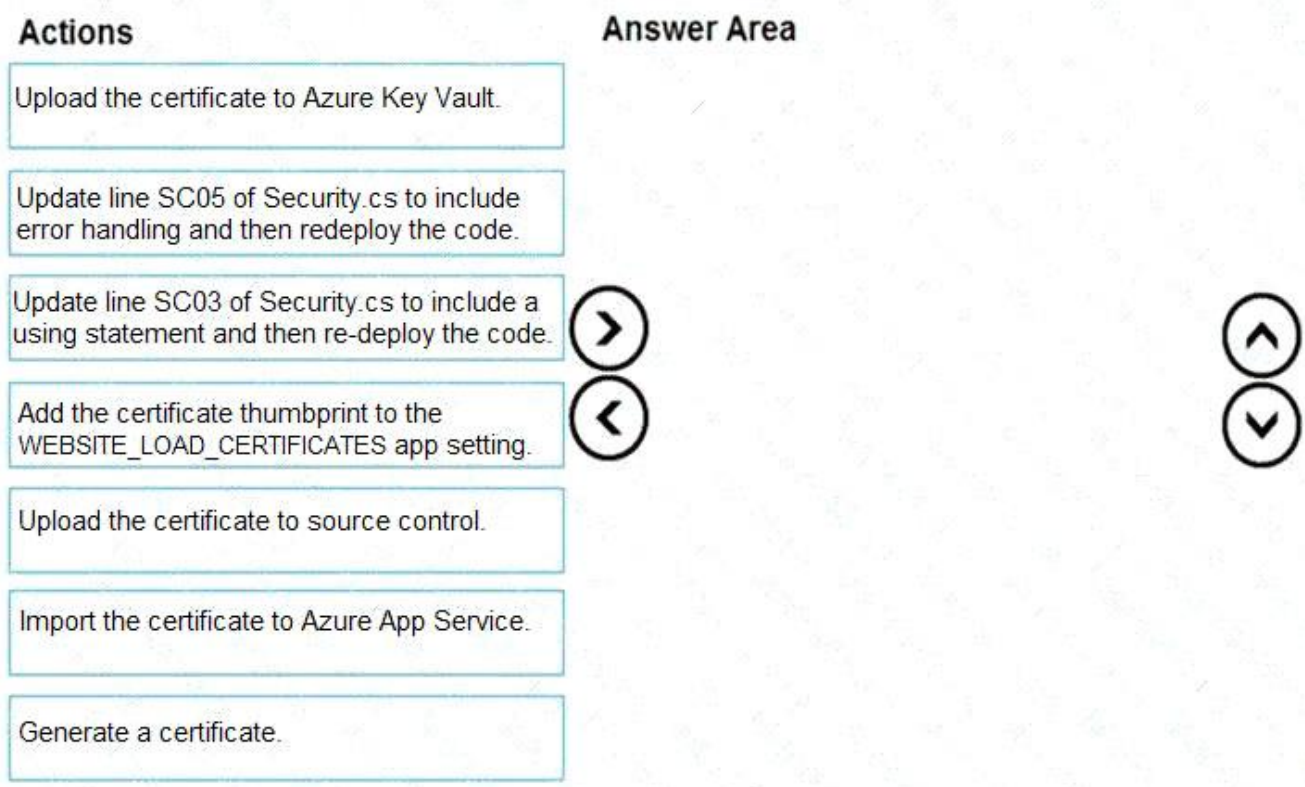


Explanation:

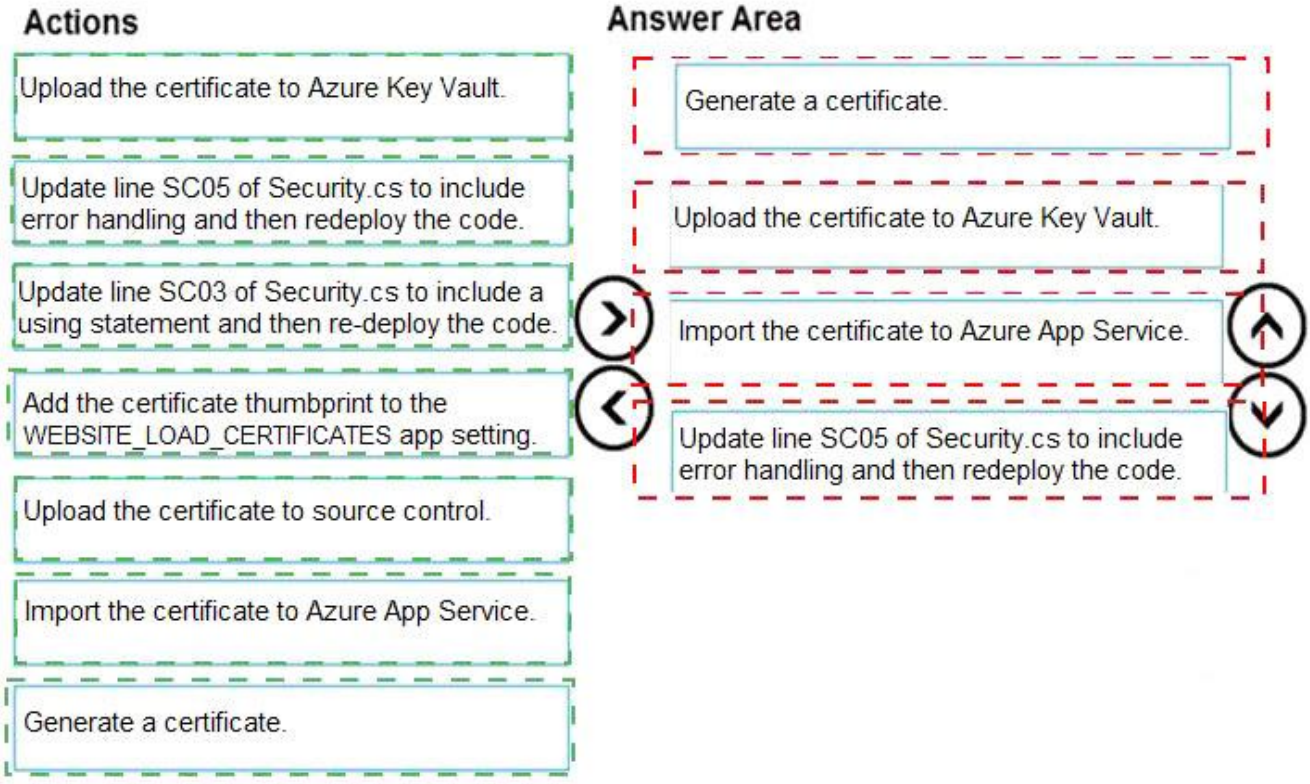


Account Kind: StorageV2 (general-purpose v2)
Scenario: Azure Storage blob will be used (refer to the exhibit). Data storage costs must be minimized.
General-purpose v2 accounts: Basic storage account type for blobs, files, queues, and tables. Recommended for most scenarios using Azure Storage.
Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal

QUESTION NO: 29
Sie müssen den Fehler auf der Unternehmenswebsite korrigieren.
Welche vier Aktionen sollten Sie nacheinander durchführen? Um zu antworten, verschieben Sie die entsprechenden Aktionen aus der Liste der Aktionen in den Antwortbereich und ordnen Sie sie in der richtigen Reihenfolge an.



Answer:



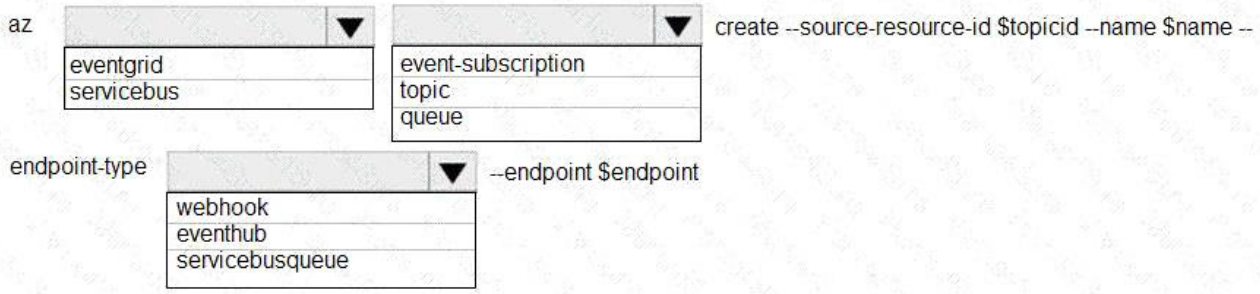
Explanation:

Scenario: Corporate website
While testing the site, the following error message displays:
CryptographicException: The system cannot find the file specified.
Step 1: Generate a certificate
Step 2: Upload the certificate to Azure Key Vault
Scenario: All SSL certificates and credentials must be stored in Azure Key Vault.
Step 3: Import the certificate to Azure App Service
Step 4: Update line SCO5 of Security.cs to include error handling and then redeploy the code
Reference:
https://docs.microsoft.com/en-us/azure/app-service/configure-ssl-certificate

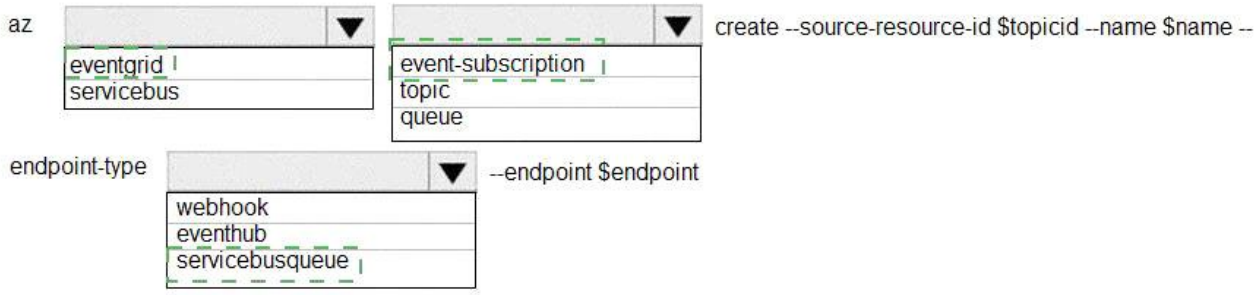
QUESTION NO: 30
Sie müssen die Fehlermeldung der Azure-Funktions-App in der Entwicklungsumgebung untersuchen.
Was tun?
A. Verbinden Sie Live Metrics Stream von Application Insights mit der Azure Functions-App und filtern Sie die Metriken.
B. Erstellen Sie einen neuen Azure Log Analytics-Arbeitsbereich und instrumentieren Sie die Azure-Funktions-App mit Application Insights.
C. Aktualisieren Sie die Azure-Funktions-App mit Erweiterungsmethoden aus Microsoft.Extensions.Logging, um Ereignisse mithilfe der Protokollinstanz zu protokollieren.
D. Fügen Sie der Azure-Funktions-App eine neue Diagnoseeinstellung hinzu, um Protokolle an Log Analytics zu senden.
Answer: A
Explanation:
Azure Functions offers built-in integration with Azure Application Insights to monitor functions .
The following areas of Application Insights can be helpful when evaluating the behavior, performance, and errors in your functions:
Live Metrics: View metrics data as it ' s created in near real-time.
Failures

Performance
Metrics
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-monitoring

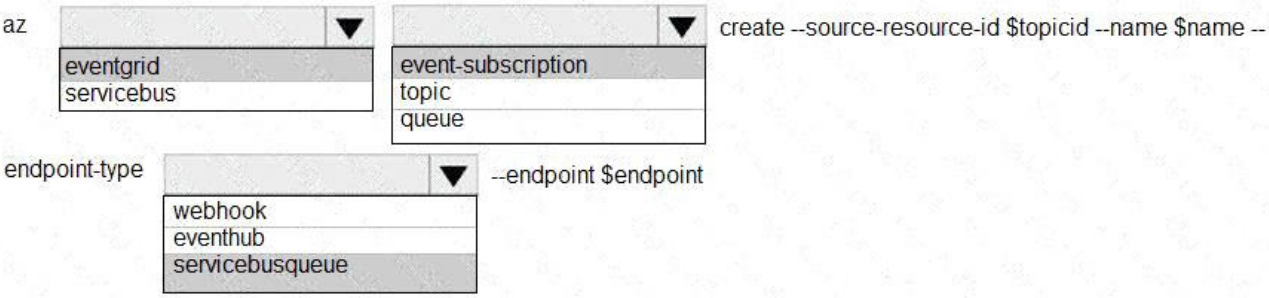
QUESTION NO: 31
Sie müssen die Integration für Azure Service Bus und Azure Event Grid konfigurieren.
Wie sollten Sie die CLI-Anweisung vervollständigen? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:

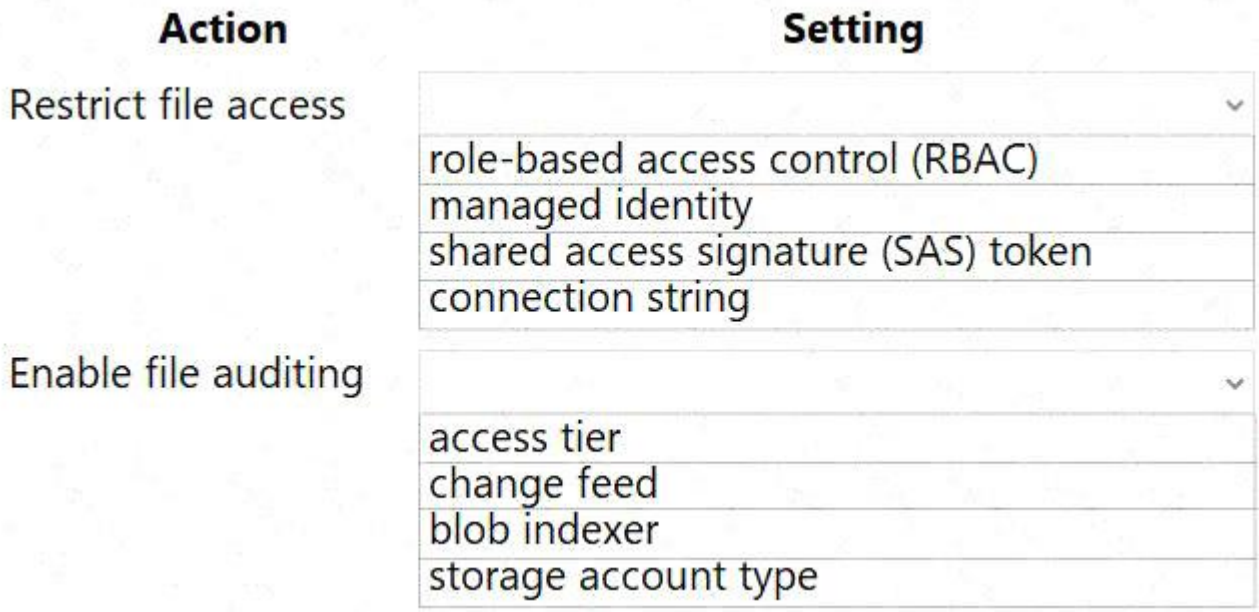


Explanation:

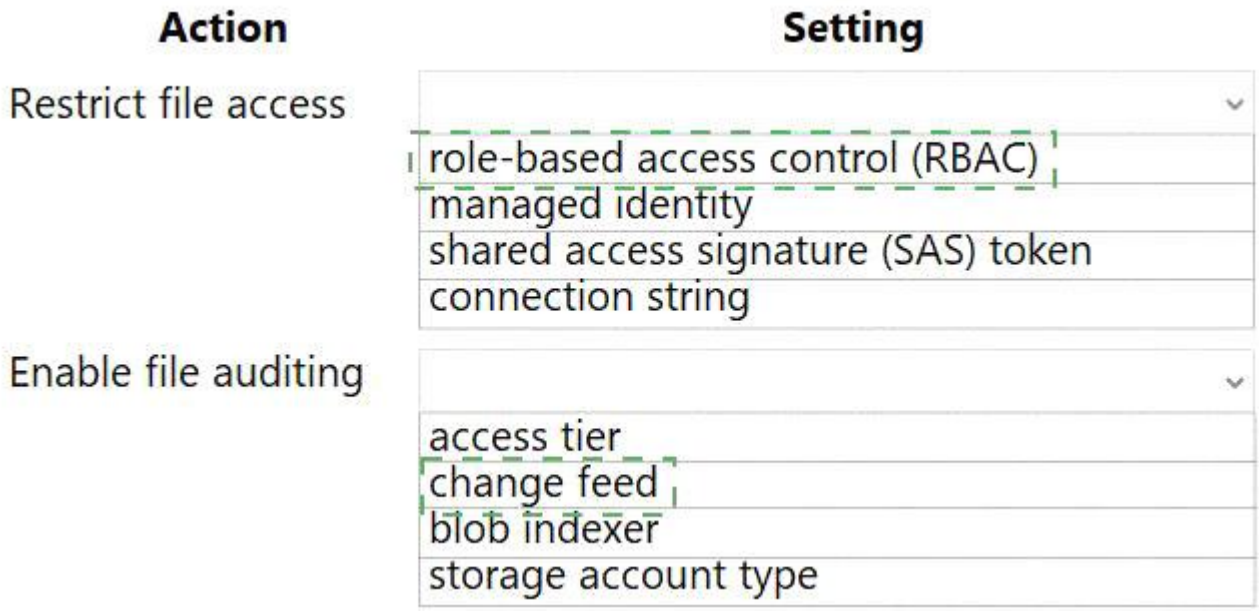


Box 1: eventgrid
To create event subscription use: az eventgrid event-subscription create Box 2: event-subscription Box 3: servicebusqueue Scenario: Azure Service Bus and Azure Event Grid Azure Event Grid must use Azure Service Bus for queue-based load leveling.
Events in Azure Event Grid must be routed directly to Service Bus queues for use in buffering.
Events from Azure Service Bus and other Azure services must continue to be routed to Azure Event Grid for processing.
Reference:
https://docs.microsoft.com/en-us/cli/azure/eventgrid/event-subscription?view=azure-cli-latest#az_eventgrid_event_subscription_create

QUESTION NO: 32
Sie müssen Sicherheit und Compliance für die Dateien der Unternehmenswebsite konfigurieren.
Welche Azure Blob Storage-Einstellungen sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



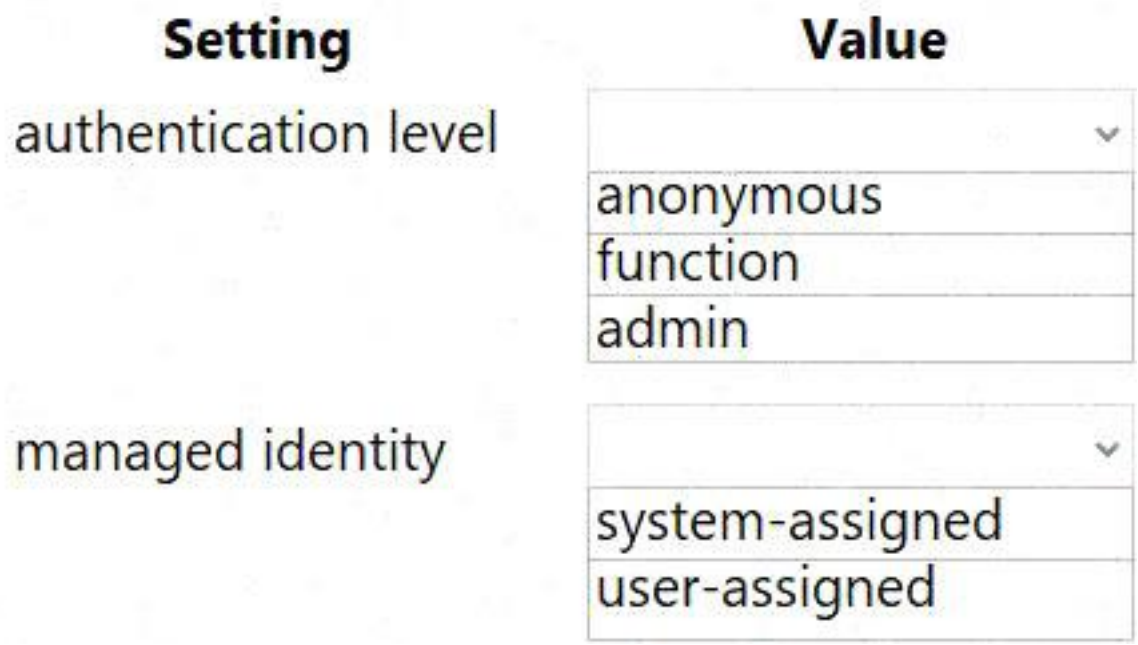
Answer:



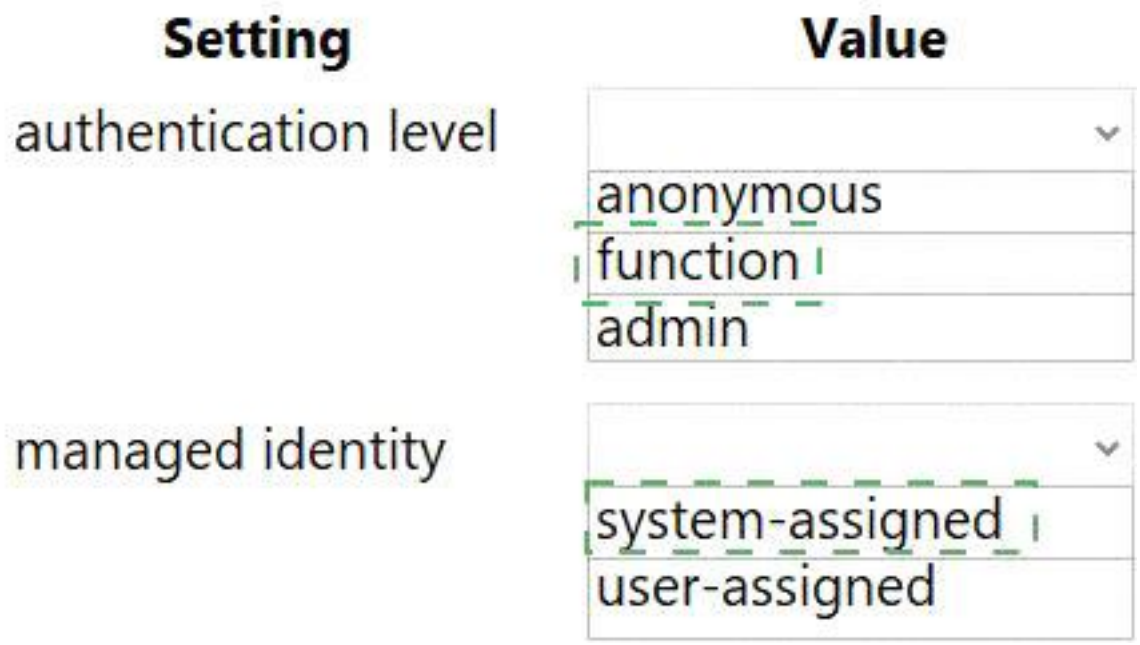
Explanation:
Box 1: role-based access control (RBAC)
Azure Storage supports authentication and authorization with Azure AD for the Blob and Queue services via Azure role-based access control (Azure RBAC).
Scenario: File access must restrict access by IP, protocol, and Azure AD rights.
Box 2: change feed
The purpose of the change feed is to provide transaction logs of all the changes that occur to

the blobs and the blob metadata in your storage account.
The file updates must be read-only, stored in the order in which they occurred, include only create, update, delete, and copy operations, and be retained for compliance reasons.
Reference:
https://docs.microsoft.com/en-us/azure/cdn/cdn-sas-storage-support
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-change-feed?tabs=azure-portal

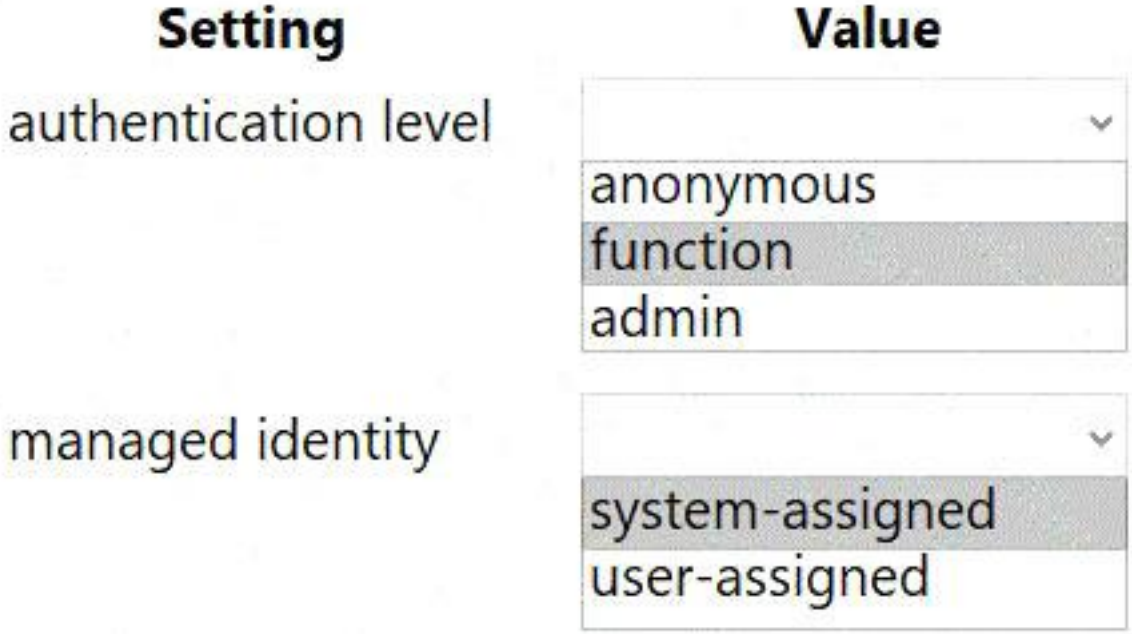
QUESTION NO: 33
Sie müssen die Fehlermeldung der Azure Logic-App korrigieren.
Welche Konfigurationswerte sollten Sie verwenden? Um zu antworten, wählen Sie die entsprechenden Optionen im Antwortbereich aus.
HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



Explanation:



Scenario: You test the Logic app in a development environment. The following error message displays:
' 400 Bad Request '
Troubleshooting of the error shows an HttpTrigger action to call the RequestUserApproval function.
Note: If the inbound call ' s request body doesn ' t match your schema, the trigger returns an HTTP 400 Bad Request error.
Box 1: function
If you have an Azure function where you want to use the system-assigned identity, first enable authentication for Azure functions.
Box 2: system-assigned
Your logic app or individual connections can use either the system-assigned identity or a

single user-assigned identity, which you can share across a group of logic apps, but not both.
Reference:
https://docs.microsoft.com/en-us/azure/logic-apps/create-managed-service-identity

QUESTION NO: 34
Sie müssen sicherstellen, dass alle Nachrichten von Azure Event Grid verarbeitet werden.
Was sollten Sie verwenden?
A. Azure Event Grid-Thema
B. Azure Service Bus-Thema
C. Azure Service Bus-Warteschlange
D. Azure Storage-Warteschlange
E. Benutzerdefinierter Azure Logic App-Connector
Answer: D
Explanation:
As a solution architect/developer, you should consider using Service Bus queues when:
Your solution needs to receive messages without having to poll the queue. With Service Bus, you can achieve it by using a long-polling receive operation using the TCP-based protocols that Service Bus supports.
Reference:
https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted
Topic 4, Proseware, Inc
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 Next 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 Question button to return to the question.
Background
You are a developer for Proseware, Inc. You are developing an application that applies a set of governance policies for Proseware's internal services, external services, and applications. The application will also provide a shared library for common functionality.
Requirements

Policy service
You develop and deploy a stateful ASP.NET Core 2.1 web application named Policy service to an Azure App Service Web App. The application reacts to events from Azure Event Grid and performs policy actions based on those events.
The application must include the Event Grid Event ID field in all Application Insights telemetry.
Policy service must use Application Insights to automatically scale with the number of policy actions that it is performing.
Policies
Log policy
All Azure App Service Web Apps must write logs to Azure Blob storage. All log files should be saved to a container named logdrop. Logs must remain in the container for 15 days.
Authentication events
Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.
PolicyLib
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.
Other
Anomaly detection service
You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure Machine Learning model. The model is deployed as a web service. If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.
Health monitoring
All web applications and services have health monitoring at the /health service endpoint.
Issues
Policy loss
When you deploy Policy service, policies may not be applied if they were in the process of being applied during the deployment.
Performance issue
When under heavy load, the anomaly detection service undergoes slowdowns and rejects connections.
Notification latency
Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.
App code
EventGridController.cs
Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

EventGridController.cs

```
EG01 public class EventGridController : Controller
EG02 {
EG03   public static AsyncLocal<string> EventId = new AsyncLocal<string>();
EG04   public IActionResult Process([fromBody] string eventsJson)
EG05   {
EG06     var events = JArray.Parse(eventsJson);
EG07
EG08     foreach (var @event in events)
EG09     {
EG10       EventId.Value = @event["id"].ToString();
EG11       if (@event["topic"].ToString().Contains("providers/Microsoft.Storage"))
EG12       {
EG13         SendToAnomalyDetectionService(@event["data"]["url"].ToString());
EG14       }
EG15
EG16       {
EG17         EnsureLogging(@event["subject"].ToString());
EG18       }
EG19     }
EG20     return null;
EG21   }
EG22   private void EnsureLogging(string resource)
EG23   {
EG24     . . .
EG25   }
EG26   private async Task SendToAnomalyDetectionService(string uri)
EG27   {
EG28     var content = GetLogData(uri);
EG29     var scoreRequest = new
EG30     {
EG31       Inputs = new Dictionary<string, List<Dictionary<string, string>>>()
EG32       {
EG33         {
EG34           "input1",
EG35           new List<Dictionary<string, string>>()
EG36           {
EG37             new Dictionary<string, string>()
EG38             {
EG39               {
EG40                 "logcontent", content
EG41               }
EG42             }
EG43           }
EG44         },
EG45       },
EG46       GlobalParameters = new Dictionary<string, string>() { }
EG47     };
EG48     var result = await (new HttpClient()).PostAsJsonAsync("...", scoreRequest);
EG49     var rawModelResult = await result.Content.ReadAsStringAsync();
EG50     var modelResult = JObject.Parse(rawModelResult);
EG51     if (modelResult["notify"].HasValues)
EG52     {
EG53       . . .
EG54     }
EG55   }
EG56   private (string name, string resourceGroup) ParseResourceId(string resourceId)
EG57   {
EG58     . . .
EG59   }
EG60   private string GetLogData(string uri)
EG61   {
EG62     . . .
EG63   }
EG64   static string BlobStoreAccountSAS(string containerName)
EG65   {
EG66     . . .
EG67   }
EG68 }
```

LoginEvent.cs

Relevant portions of the app files are shown below. Line numbers are included for reference

only and include a two-character prefix that denotes the specific file to which they belong.

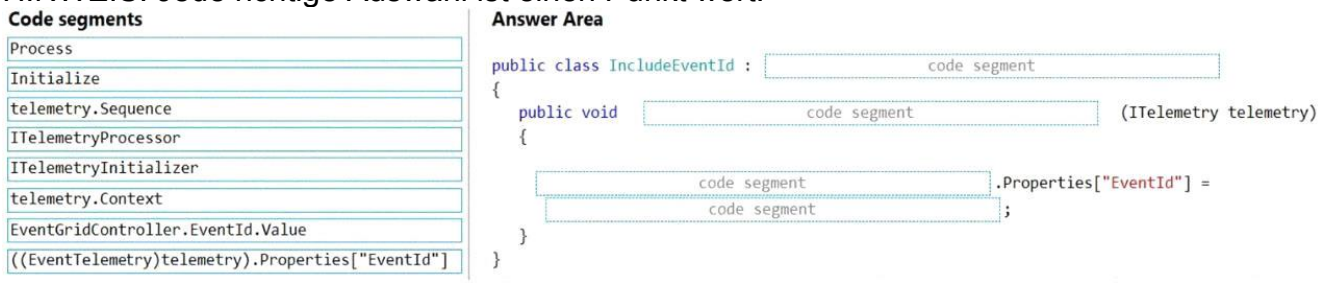
```
LoginEvent.cs
LE01 public class LoginEvent
LE02 {
LE03
LE04    public string subject { get; set; }
LE05    public DateTime eventTime { get; set; }
LE06    public Dictionary<string, string> data { get; set; }
LE07    public string Serialize()
LE08    {
LE09      return JsonConvert.SerializeObject(this);
LE10    }
LE11 }
```

QUESTION NO: 35

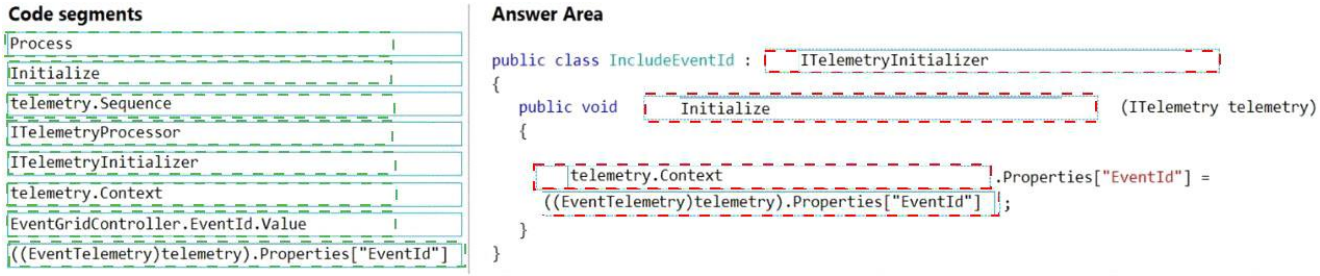
Sie müssen sicherstellen, dass die PolicyLib-Anforderungen erfüllt sind.

Wie sollten Sie das Codesegment vervollständigen? Um zu antworten, ziehen Sie die entsprechenden Codesegmente an die richtigen Stellen. Jedes Codesegment kann einmal, mehr als einmal oder überhaupt nicht verwendet werden. Möglicherweise müssen Sie die Teilungsleiste zwischen den Fenstern ziehen oder scrollen, um den Inhalt anzuzeigen.

HINWEIS: Jede richtige Auswahl ist einen Punkt wert.



Answer:



Explanation:

```
public class IncludeEventId : ITelemetryInitializer
{
    public void Initialize(ITelemetry telemetry)
    {

      telemetry.Context.Properties["EventId"] =
       ((EventTelemetry)telemetry).Properties["EventId"];
    }
}
```

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