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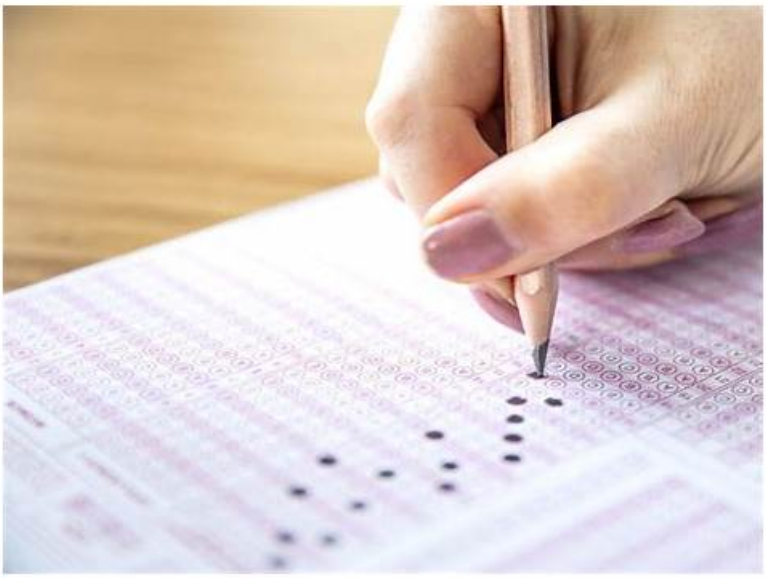

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In order to meet the needs of all customers, our company employed a lot of leading experts and professors in the field. These experts and professors have designed our AZ-204 exam questions with a high quality for our customers. We can promise that our AZ-204 Study Guide will be suitable for all people, including students and workers and so on. You can use our AZ-204 practice materials whichever level you are in right now.

Microsoft AZ-204 Exam is an excellent way for developers to validate their skills in developing cloud-based solutions on Microsoft Azure. AZ-204 exam measures a candidate's ability to design and implement solutions that are secure, scalable, and highly available. Developing Solutions for Microsoft Azure certification also demonstrates a candidate's ability to develop, deploy, and manage Azure-based applications. Developing Solutions for Microsoft Azure certification is highly valued in the industry and can help developers advance their careers.

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Microsoft AZ-204 exam is designed to test the skills and knowledge of developers who are looking to develop solutions for Microsoft Azure. Developing Solutions for Microsoft Azure certification exam is aimed at individuals who are interested in working with cloud technologies and want to demonstrate their expertise in developing cloud-based applications. AZ-204 Exam covers a wide range of topics, including Azure compute, storage, security, and networking, making it a comprehensive certification that validates a developer's ability to build and deploy Azure-based solutions.

Microsoft Developing Solutions for Microsoft Azure Sample Questions (Q118-Q123):

NEW QUESTION # 118
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

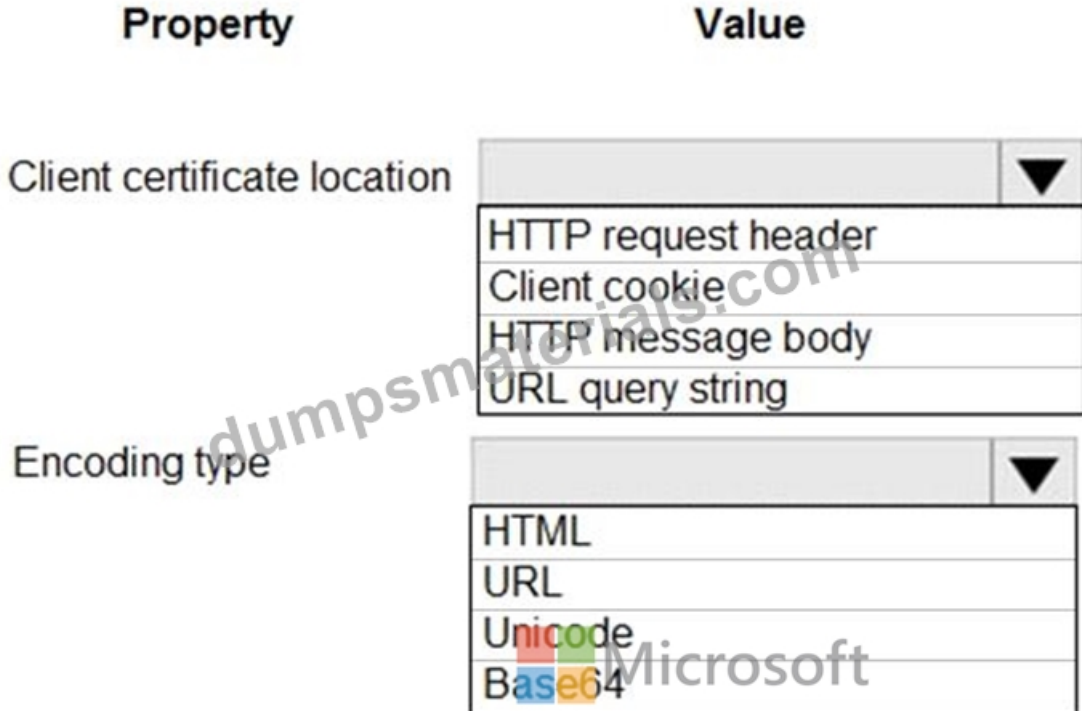
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You develop Azure solutions.
You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.
You need to obtain an Azure Resource Manager access token.
Solution: Use an X.509 certificate to authenticate the VM with Azure Resource Manager.
Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

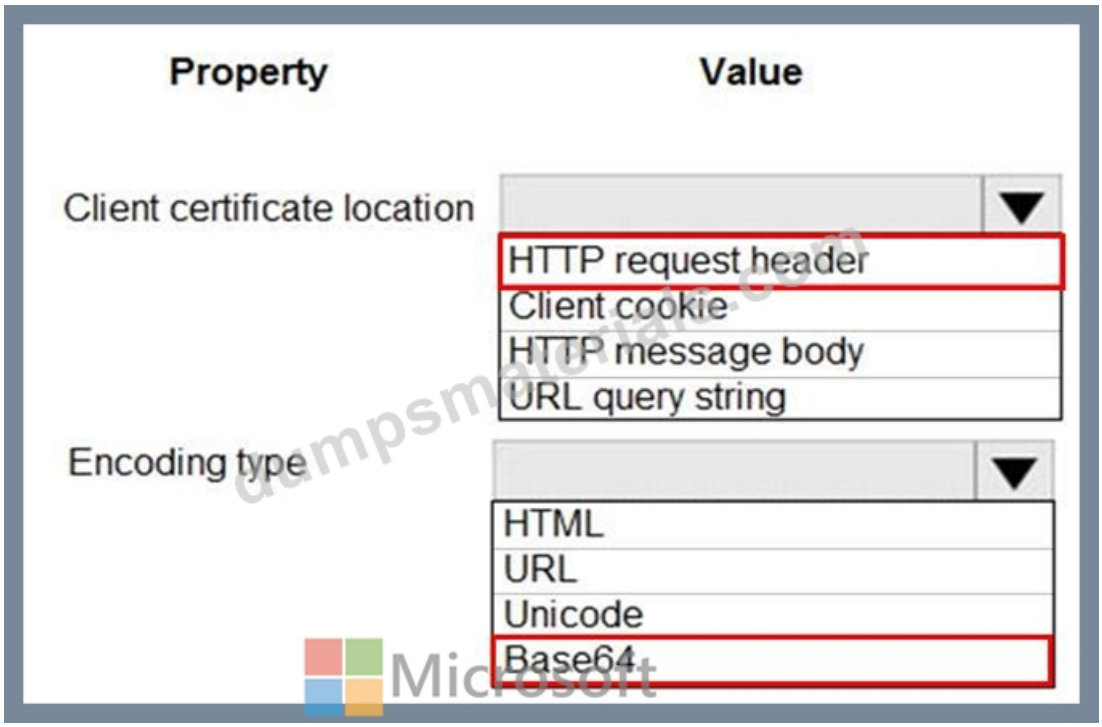
Explanation:
Instead run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/tutorial-windows-vm

NEW QUESTION # 119
You are developing an Azure Web App. You configure TLS mutual authentication for the web app.
You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:

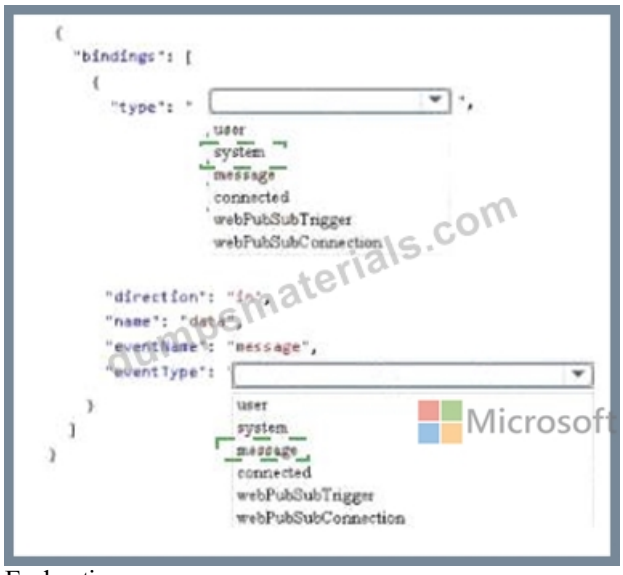


Reference:
https://docs.microsoft.com/en-us/azure/app-service/app-service-web-configure-tls-mutual-auth

NEW QUESTION # 120
You are developing a service where customers can report news events from a browser using Azure Web PubSub. The service is implemented as an Azure App that the JSON WebSocket suprotocol to receive news events.
You need to implement the bindings for the Azure Function App.
How should you configure the binding? To answer, select the appropriate options in the answer area.
Note: Each Correct Selection in worth one point.

Answer:

Explanation:



Explanation

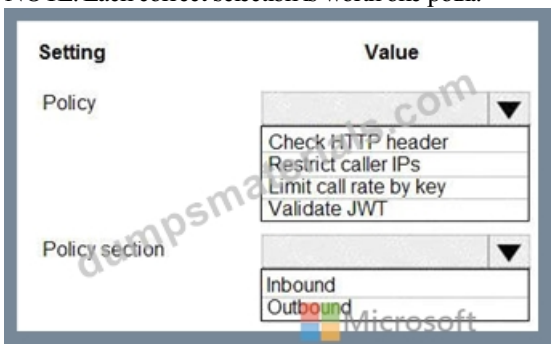
Graphical user interface, text, application, chat or text message Description automatically generated

NEW QUESTION # 121

You need to configure API Management for authentication.

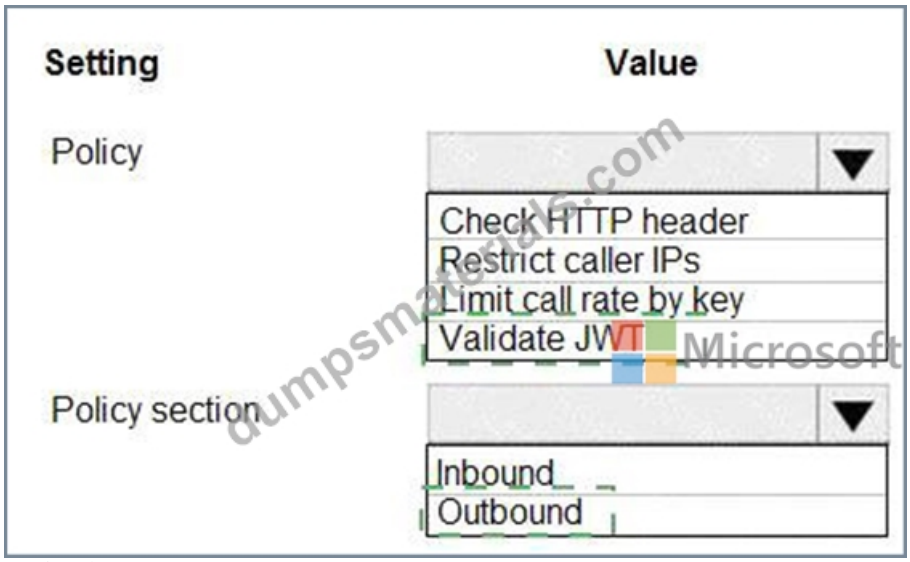
Which policy values should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

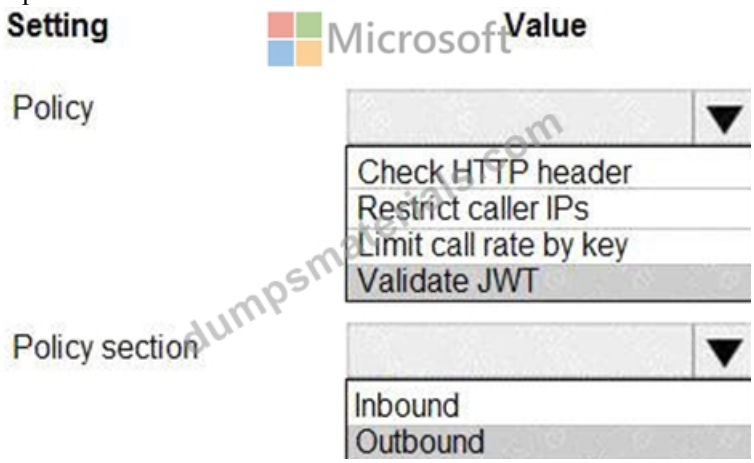


Answer:

Explanation:



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

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());
```

```
:G18        }
:G19      }
:G20      return null;
:G21    }
:G22    private void EnsureLogging(string resource)
:G23    {
:G24      . . .
:G25    }
:G26    private async Task SendToAnomalyDetectionService(string uri)
:G27    {
:G28      var content = GetLogData(uri);
:G29      var scoreRequest = new
:G30      {
:G31        Inputs = new Dictionary<string, List<Dictionary<string, string>>>()
:G32        {
:G33          {
:G34            "input1",
:G35            new List<Dictionary<string, string>>()
:G36            {
:G37              new Dictionary<string, string>()
:G38              {
:G39                {
:G40                  "logcontent", content
:G41                }
:G42              }
:G43            }
:G44          },
:G45        },
:G46        GlobalParameters = new Dictionary<string, string>() { }
:G47      };
:G48      var result = await (new HttpClient()).PostAsJsonAsync("...", scoreRequest);
:G49      var rawModelResult = await result.Content.ReadAsStringAsync();
:G50      var modelResult = JObject.Parse(rawModelResult);
:G51      if (modelResult["notify"].HasValues)
:G52      {
:G53        . . .
:G54      }
:G55    }
:G56    private (string name, string resourceGroup) ParseResourceId(string resourceId)
:G57    {
:G58      . . .
:G59    }
:G60    private string GetLogData(string uri)
:G61    {
:G62      . . .
:G63    }
:G64    static string BlobStoreAccountSAS(string containerName)
:G65    {
:G66      . . .
:G67    }
:G68 }
```

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.

```
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 }
```


NEW QUESTION # 122
You need to support the requirements for the Shipping Logic App.
What should you use?

- A. Site-to-Site (S2S) VPN connection
- B. On-premises Data Gateway
- C. Azure Active Directory Application Proxy
- D. Point-to-Site (P2S) VPN connection

Answer: B

Explanation:
Topic 3, City Power & Light
Case study
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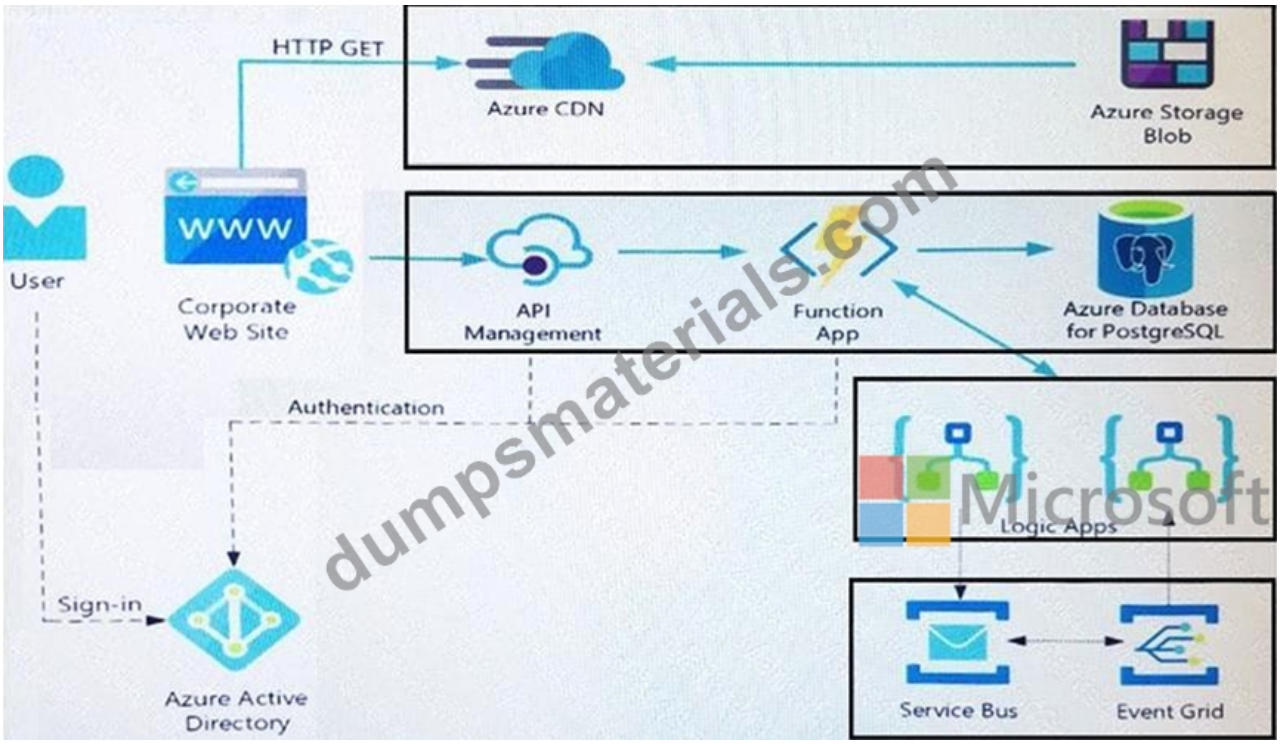
Background
City Power & Light company provides electrical infrastructure monitoring solutions for homes and businesses. The company is migrating solutions to Azure.
Current environment
Architecture overview
The
company has a public website located at http://www.cpandl.
com/. The site is a single-page 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 }
```


NEW QUESTION # 123
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