

## **Topic 2, Case Study 2**

### **Background Requirements**

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.

### **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 PoScy service. Sign outs must be processed as quickly as possible.

### **Policy Lib**

You have a shared library named Policy Lib that contains functionality common to all ASP.NET Core web services and applications. The Policy Lib 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

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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.

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EventGridController.es

```
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().Containing("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 url)
EG27 {
EG28     var content = GetLogData(url);
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 url)
EG61 {
EG62     ...
EG63 }
EG64 static string BlobStoreAccountSAS(string containerName)
EG65 {
EG66     ...
EG67 }
EG68 }
```

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### 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 1

You need to meet the scaling requirements for Policy Service. What should you store in Azure Redis Cache?

- A. ViewState
- B. HttpContext.tems
- C. Session state
- D. TempData

**Correct Answer: B**

### QUESTION 2

#### DRAG DROP

You need to add code at line EG15 in EventGndControllef.es to ensure that the tag policy applies to all services.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the Split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Code segments**

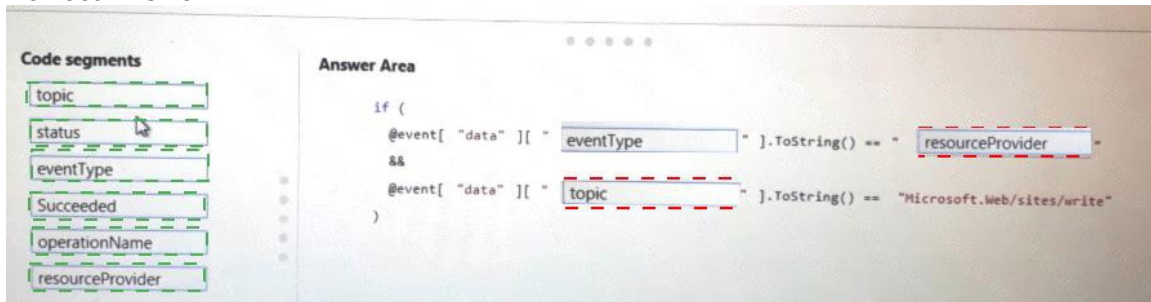
- topic
- status
- eventType
- Succeeded
- operationName
- resourceProvider

**Answer Area**

```
if (
    @event[ "data" ][ " " code segment " ].ToString() == " code segment "
    &&
    @event[ "data" ][ " " code segment " ].ToString() == "Microsoft.Web/sites/write"
)
```

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**Correct Answer:**



### **QUESTION 3**

You need to ensure that the solution can meet the scaling requirements for Policy Service. Which Azure Application Insights data model should you use?

- A. an Application Insights trace
- B. an Application Insights metric
- C. an Application Insights dependency
- D. an Application Insights event

**Correct Answer: B**

### **QUESTION 4**

You need to resolve a notification latency issue.

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

NOTE: Each correct selection is worth one point.

- A. Ensure that the Azure Function is set to use a consumption plan.
- B. Set Always On to false
- C. Set Always On to true
- D. Ensure that the Azure Function is using an App Service plan.

**Correct Answer: AC**

### **QUESTION 5**

You need to ensure that the Policy service can implement the policy actions. Which code segment should you insert at line EG07 in EventGridController.cs?