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Question #5

Topic 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing and deploying several ASP.NET web applications to Azure App Service. You plan to save session state information and HTML output.

You must use a storage mechanism with the following requirements:

- ☞ Share session state across all ASP.NET web applications.
- ☞ Support controlled, concurrent access to the same session state data for multiple readers and a single writer.
- ☞ Save full HTTP responses for concurrent requests.

You need to store the information.

Proposed Solution: Enable Application Request Routing (ARR).

Does the solution meet the goal?

A. Yes

B. No

**Correct Answer:** *B*

Instead deploy and configure Azure Cache for Redis. Update the web applications.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/best-practices/caching#managing-concurrency-in-a-cache>

## Question #6

Topic 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution.

Determine whether the solution meets the stated goals.

You are developing and deploying several ASP.NET web applications to Azure App Service. You plan to save session state information and HTML output.

You must use a storage mechanism with the following requirements:

- ☞ Share session state across all ASP.NET web applications.
- ☞ Support controlled, concurrent access to the same session state data for multiple readers and a single writer.
- ☞ Save full HTTP responses for concurrent requests.

You need to store the information.

Proposed Solution: Deploy and configure an Azure Database for PostgreSQL. Update the web applications.

Does the solution meet the goal?

A. Yes

B. No

**Correct Answer:** B 

Instead deploy and configure Azure Cache for Redis. Update the web applications.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/best-practices/caching#managing-concurrency-in-a-cache>

**HOTSPOT -**

A company is developing a gaming platform. Users can join teams to play online and see leaderboards that include player statistics. The solution includes an entity named Team.

You plan to implement an Azure Redis Cache instance to improve the efficiency of data operations for entities that rarely change.

You need to invalidate the cache when team data is changed.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
void ClearCachedTeams()
{
    

IDatabase cache = Connection.GetDatabase();
ICache cache = Connection.GetDatabase();



cache.KeyDelete("Team");
cache.StringSet("Team", "");
cache.ValueDelete("Team");
cache.StringGet("Team", "");


    ViewBag.msg += "Team data removed from cache.";
}
```

Answer Area

Correct Answer:

```
void ClearCachedTeams()
{
    

IDatabase cache = Connection.GetDatabase();
ICache cache = Connection.GetDatabase();



cache.KeyDelete("Team");
cache.StringSet("Team", "");
cache.ValueDelete("Team");
cache.StringGet("Team", "");


    ViewBag.msg += "Team data removed from cache.";
}
```

Box 1: IDatabase cache = connection.GetDatabase();

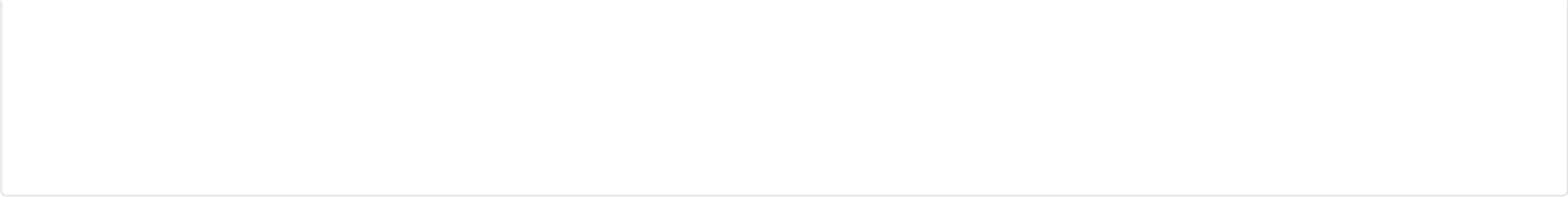
Connection refers to a previously configured ConnectionMultiplexer.

Box 2: cache.StringSet("teams",")

To specify the expiration of an item in the cache, use the TimeSpan parameter of StringSet. cache.StringSet("key1", "value1", TimeSpan.FromMinutes(90));

Reference:

<https://azure.microsoft.com/sv-se/blog/lap-around-azure-redis-cache-preview/> <https://docs.microsoft.com/en-us/cli/azure/webapp/config/container>



## Question #8

## Topic 4

## DRAG DROP -

A company has multiple warehouses. Each warehouse contains IoT temperature devices which deliver temperature data to an Azure Service Bus queue.

You need to send email alerts to facility supervisors immediately if the temperature at a warehouse goes above or below specified threshold temperatures.

Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

**Actions**

Add a logic app trigger that fires when one or more messages arrive in the queue.

Add a Recurrence trigger that schedules the app to run every 15 minutes.

Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.

Add a trigger that reads IoT temperature data from a Service Bus queue.

Add a logic app action that fires when one or more messages arrive in the queue.

Add a condition that compares the temperature against the upper and lower thresholds.

Create a blank Logic app.

Add an action that reads IoT temperature data from the Service Bus queue.

**Answer Area**

Correct Answer:

**Actions**

Add a logic app trigger that fires when one or more messages arrive in the queue.

Add a Recurrence trigger that schedules the app to run every 15 minutes.

Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.

Add a trigger that reads IoT temperature data from a Service Bus queue.

Add a logic app action that fires when one or more messages arrive in the queue.

Add a condition that compares the temperature against the upper and lower thresholds.

Create a blank Logic app.

Add an action that reads IoT temperature data from the Service Bus queue.

**Answer Area**

Create a blank Logic app.

Add a logic app action that fires when one or more messages arrive in the queue.

Add an action that reads IoT temperature data from the Service Bus queue.

Add a condition that compares the temperature against the upper and lower thresholds.

Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.

Step 1: Create a blank Logic app.

Create and configure a Logic App.

Step 2: Add a logical app trigger that fires when one or more messages arrive in the queue.

Configure the logic app trigger.

Under Triggers, select When one or more messages arrive in a queue (auto-complete).

Step 3: Add an action that reads IoT temperature data from the Service Bus queue

Step 4: Add a condition that compares the temperature against the upper and lower thresholds.

Step 5: Add an action that sends an email to specified personnel if the temperature is outside of those thresholds

Reference:

<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-monitoring-notifications-with-azure-logic-apps>



DRAG DROP -

You develop an ASP.NET Core MVC application. You configure the application to track webpages and custom events.

You need to identify trends in application usage.

Which Azure Application Insights Usage Analysis features should you use? To answer, drag the appropriate features to the correct requirements. Each feature may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Features

Users

Funnels

Impact

Retention

User Flows

Answer Area

Requirement	Feature
Which pages visited by users most often correlate to a product purchase?	Feature
How does load time of the product display page affect a user's decision to purchase a product?	Feature
Which events most influence a user's decision to continue to use the application?	Feature
Are there places in the application that users often perform repetitive actions?	Feature

Correct Answer:

Features

Users

Funnels

Impact

Retention

User Flows

Answer Area

Requirement	Feature
Which pages visited by users most often correlate to a product purchase?	Users
How does load time of the product display page affect a user's decision to purchase a product?	Impact
Which events most influence a user's decision to continue to use the application?	Retention
Are there places in the application that users often perform repetitive actions?	User Flows

Box 1: Users -

Box 2: Impact -

One way to think of Impact is as the ultimate tool for settling arguments with someone on your team about how slowness in some aspect of your site is affecting whether users stick around. While users may tolerate a certain amount of slowness, Impact gives you insight into how best to balance optimization and performance to maximize user conversion.

Box 3: Retention -

The retention feature in Azure Application Insights helps you analyze how many users return to your app, and how often they perform particular tasks or achieve goals. For example, if you run a game site, you could compare the numbers of users who return to the site after losing a game with the number who return after winning. This knowledge can help you improve both your user experience and your business strategy.

Box 4: User flows -

The User Flows tool visualizes how users navigate between the pages and features of your site. It's great for answering questions like:

- How do users navigate away from a page on your site?
- What do users click on a page on your site?
- Where are the places that users churn most from your site?
- Are there places where users repeat the same action over and over?

Incorrect Answers:

Funnel: If your application involves multiple stages, you need to know if most customers are progressing through the entire process, or if they are ending the process at some point. The progression through a series of steps in a web application is known as a funnel. You can use Azure Application Insights Funnels to gain insights into your users, and monitor step-by-step conversion rates.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/usage-impact>

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