



Vendor: Microsoft

Exam Code: AZ-202

Exam Name: Microsoft Azure Developer Certification
Transition

Version: DEMO

Case study 1 - Litware Inc

Case Study 2 - Coho Winery

Case Study 3 - Proseware, Inc

Case Study 4 - Best for You Organics

Background

Best for You Organics Company is a global restaurant franchise that has multiple locations. The company wants to enhance user experiences and vendor integrations. The company plans to implement automated mobile ordering and delivery services.

Best For You Organics hosts an Azure web app at the URL <https://www.bestforyouorganics.com>. Users can use the web app to browse restaurant locations, menu items, nutritional, information, and company information. The company developed and deployed a cross-platform mobile app.

QUESTION 1

You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles.

You need to create compute nodes for the solution on Azure Batch.

What should you do?

- A. In Python, implement the class: TaskAddParameter
- B. In Python, implement the class: JobAddParameter
- C. In the Azure portal, create a Batch account.
- D. In Azure CLI, run the command: `az batch pool create`

Answer: D

Explanation:

You can create a pool of compute nodes using the `az batch pool create` command. The following example creates a pool named `mypool` of 2 size `Standard_A1_v2` nodes running Ubuntu 16.04 LTS. The suggested node size offers a good balance of performance versus cost for this quick example.

```
az batch pool create \  
--id mypool --vm-size Standard_A1_v2 \  
--target-dedicated-nodes 2 \  
--image canonical:ubuntu/server:16.04-LTS \  
--node-agent-sku-id "batch.node.ubuntu 16.04"
```

References:

<https://docs.microsoft.com/en-us/azure/batch/quick-create-cli>

QUESTION 2

You maintain an Azure Web App that runs in a container. The container is using a DockerFile that is copied to numerous places and consumes a large amount of storage.

You need to optimize the Dockerfile.

What should you do?

- A. Minimize layers by concatenating all RUN instructions on one line.
- B. Configure the CLI with a `.dockerignore` file.
- C. Minimize layers by grouping actions in as few RUN instructions as possible.

D. Use multiple RUN instructions for cached operation.

Answer: C

Explanation:

Minimize the number of layers.

Prior to Docker 17.05, and even more, prior to Docker 1.10, it was important to minimize the number of layers in your image. In Docker 1.10 and higher, only RUN, COPY, and ADD instructions create layers.

References:

https://docs.docker.com/v17.09/engine/userguide/eng-image/dockerfile_best-practices

QUESTION 3

Hotspot Question

You are developing a workflow solution using Azure technologies.

What should you implement to meet each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

| Requirement | Tool |
|--|---|
| Debug the solution by using Visual Studio. | <div>▼</div> <div>Durable functions only</div> <div>Logic Apps only</div> <div>Durable functions and Logic Apps</div> |
| Use a collection of ready-made actions. | <div>▼</div> <div>Durable functions only</div> <div>Logic Apps only</div> <div>Durable functions and Logic Apps</div> |
| Deploy the component by using Visual Studio Team Services. | <div>▼</div> <div>Durable functions only</div> <div>Logic Apps only</div> <div>Durable functions and Logic Apps</div> |

Answer:

Answer Area

| Requirement | Tool |
|--|---|
| Debug the solution by using Visual Studio. | <div>▼</div> <div> Durable functions only Logic Apps only Durable functions and Logic Apps </div> |
| Use a collection of ready-made actions. | <div>▼</div> <div> Durable functions only Logic Apps only Durable functions and Logic Apps </div> |
| Deploy the component by using Visual Studio Team Services. | <div>▼</div> <div> Durable functions only Logic Apps only Durable functions and Logic Apps </div> |

Explanation:

Box 1: Logic Apps only

You can manually trigger a logic app deployed in Azure from Visual Studio. On the Logic App Designer toolbar, choose Run Trigger.

To check the status and diagnose problems with logic app runs, you can review the details, such as inputs and outputs, for those runs in Visual Studio.

Box 2: Durable functions only

Box 3: Durable functions and Logic Apps

References:

<https://docs.microsoft.com/en-us/azure/logic-apps/manage-logic-apps-with-visual-studio>

<https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-create-portal>

QUESTION 4

Hotspot Question

You develop software solutions for a web services company. You have the following code. (Line numbers are for reference only.)

```

01 public class MessageController : ApiController
02 {
03     public async Task<HttpResponseMessage> Post([FromBody]Activity activity)
04     {
05         if (activity.GetActivityType() == ActivityTypes.Message)
06         {
07             await Conversation.SendAsync(activity, () => new Dialogs.RootDialog());
08         }
09         else
10         {
11             HandleSystemMessage(activity);
12         }
13         var response = Request.CreateResponse(HttpStatusCode.OK);
14         return response;
15     }
16 }
17 [Serializable]
18 public class RootDialog : IDialog<object>
19 {
20     public class RootDialog : IDialog<object>
21     {
22         context.Wait(MessageReceivedAsync);
23         return Task.CompletedTask;
24     }
25     public virtual async Task MessageReceivedAsync (IDialogContext context, IAwaitable<IMessageActivity> result)
26     {
27         var message = await result;
28         if (message.Text.ToLower().Contains("help") || message.Text.ToLower().Contains ("support"))
29         {
30             await context.Forward(new SupportDialog(), this.ResumeAfterSupportDialog, message);
31         }
32         else
33         {
34             await context.PostAsync($"Hello. I can help you with the following keywords : help | support");
35             context.Wait (MessageReceivedAsync);
36         }
37     }
38     private async Task ResumeAfterSupportDialog(IDialogContext context, IAwaitable<object> result)
39     {
40         try
41         {
42             var message = await result;
43         }
44         finally
45         {
46             context.Wait(this.MessageReceivedAsync);
47         }
48     }
49 }

```

You need to implement an immediate response customer support solution for the company's website.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

| | Yes | No |
|--|-----------------------|-----------------------|
| A child dialog will handle any messages that contain the word support . | <input type="radio"/> | <input type="radio"/> |
| RootDialog will return to the top of the stack after SupportDialog handles a request | <input type="radio"/> | <input type="radio"/> |

Answer:

Answer Area

| | Yes | No |
|--|----------------------------------|-----------------------|
| A child dialog will handle any messages that contain the word support . | <input checked="" type="radio"/> | <input type="radio"/> |
| RootDialog will return to the top of the stack after SupportDialog handles a request | <input checked="" type="radio"/> | <input type="radio"/> |

QUESTION 5

Hotspot Question

You develop a microservice solution for a company.

The solution uses the Actor design pattern for all services including mappings, GPS, and communication. The mapping and communication systems must persist state on disk. The GPS system must persist state in-memory. All Actors must have a service replica count of three.

You need to implement code for the GPS system.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
public interface IGPS_System : IActor
{
    Task<int> GetAccountAsync(CancellationTok... cancellationToken);
    Task SetCountAsync (int count, Cancellat... cancellationToken);
}
[StatePersistence (StatePersistence.
    Persisted
    Volatile
    None
    Actor

internal class GPS_System :
    Actor,
    IActor,
    ActorId,
    ActorService,

{
    public GPS_System(ActorService p_pService, ActorId p_pID) " base(p_pService,
    p_pID)
    {
    }
    ...
}
```

Answer:

Answer Area

```
public interface IGPS_System : IActor
{
    Task<int> GetAccountAsync(CancellationTokens cancellationTokens);
    Task SetCountAsync (int count, CancellationTokens cancellationTokens);
}
[StatePersistence (StatePersistence.
```

| |
|-----------|
| Persisted |
| Volatile |
| None |
| Actor |

```
internal class GPS_System :
{
    public GPS_System(ActorService p_pService, ActorId p_pID) " base(p_pService,
p_pID)
    {
    }
}
}
```

| |
|---------------|
| Actor, |
| IActor, |
| ActorId, |
| ActorService, |

| |
|---------------|
| Actor, |
| IActor, |
| IGPS_System |
| ActorService, |

Explanation:

Example:

The state manager retrieval methods return a reference to an object in local memory. Modifying this object in local memory alone does not cause it to be saved durably. When an object is retrieved from the state manager and modified, it must be reinserted into the state manager to be saved durably.

[StatePersistence(StatePersistence.Persisted)]

class MyActor : Actor, IMyActor

```
{
public MyActor(ActorService actorService, ActorId actorId)
: base(actorService, actorId)
{
}
}
```

```
public Task SetCountAsync(int value)
{
return this.StateManager.SetStateAsync<int>("MyState", value);
}
}
```

References:

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-reliable-actors-access-save-remove-state>

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