AZ-303^{Q&As}

Microsoft Azure Architect Technologies

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QUESTION 1

Which pricing tier should you recommend for WebApp?

A. D1

B. P1v2

C. S1

D. B1

Correct Answer: C

Standard supports up to 10 instances, and would be enough as the Standard plan includes auto scale that can automatically adjust the number of virtual machine instances running to match your traffic needs.

Scenario: Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances

Incorrect Answers:

D: Basic supports only up to 3 instances.

References: https://azure.microsoft.com/en-us/pricing/details/app-service/windows/

QUESTION 2

You have an Azure Cosmos DB database that contains a container named Container1. The partition key for Container1 is set to /day. Container1 contains the items shown in the following table.

Name	Content
Item1	```{ "id": "1", "day": "Mon", "value" : "10" }```
Item2	```{ "id": "2", "day": "Mon", "value" : "15" }```
Item3	```{ "id": "3", "day": "Tue", "value" : "10" }```
Item4	```{ "id": "4", "day": "Wed", "value" : "15" }```

You need to programmatically query Azure Cosmos DB and retrieve Item1 and Item2 only. Solution: You run the following query.

```
SELECT id FROM c
    WHERE c.day = "Mon" OR c.day = "Tue"
```

You set the EnableCrossPartitionQuery property to False. Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Returns Item1 only as EnableCrossPartitionQuery property to False. If EnableCrossPartitionQuery property is set to true, it will return Item1, Item2, and Item3.

Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/sql-query-where https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.documents.client.feedoptions.enablecrosspartitionquery?view=azure-dotnet

QUESTION 3

You have a web app named WebApp1 that has the autoscale condition shown in the following exhibit.

Default Auto created scale condition ✏️ 🗑️

| Delete warning | ℹ️ The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale. |

| Scale mode | ⦿ Scale based on a metric ⦾ Scale to a specific instance count |

Scale out

When	**ASP-RG5-b4a5**	(Average) CpuPercentage >= 60	Increase count by 1
Or	**ASP-RG5-b4a5**	(Average) CpuPercentage > 70	Increase count by 2

Rules

Scale in

When	**ASP-RG5-b4a5**	(Average) CpuPercentage < 30	Decrease count by 1

+ Add a rule

Instance limits	Minimum ❶	Maximum ❶	Default ❶
	1	6	2

| Schedule | This scale condition is executed when none of the other scale condition(s) match |

Every autoscale condition rule is configured to have a duration of 20 minutes and a cool down time of 10 minutes.

At 06:00, 500 users are connected to WebApp1, WebApp1 is running two instances, and the average CPU utilization is consistently 50 percent.

At 07:00, 720 users are connected to WebApp1 and the average CPU utilization increases to 72 percent.

If 720 users remain connected to WebApp1, how many instances of WebApp1 will be running at 07:35?

A. 2

B. 3

C. 4

D. 5

Correct Answer: C

The duration is 20 minutes and the cool-down time is 10 minutes. The autoscale is triggered when the duration has passed. Thus it will trigger at 7:20. It will not trigger again until the cool-down time has lapsed. At 7:30 it will trigger a second time if the CPU usage remains above 60%. However, we have scaled out to double the instances. Thus CPU usage would drop.

Reference: https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-portal

QUESTION 4

You have an Azure subscription that contains 10 virtual machines.

You need to ensure that you receive an email message when any virtual machines are powered off, restarted, or deallocated.

What is the minimum number of rules and action groups that you require?

A. three rules and three action groups

B. one rule and one action group

C. three rules and one action group

D. one rule and three action groups

Correct Answer: C

QUESTION 5

HOTSPOT

Fourth Coffee has an ASP.Net Core web app that runs in Docker. The app is mapped to the www.fourthcoffee.com domain.

Fourth Coffee is migrating this application to Azure.

You need to provision an App Service Web App to host this docker image and map the custom domain to the App Service web app.

A resource group named FourthCofeePublicWebResourceGroup has been created in the WestUS region that contains an App Service Plan named AppServiceLinuxDockerPlan.

Which order should the CLI commands be used to develop the solution? To answer, move all of the Azure CLI commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Azure CLI commands

```
az webapp config container set
--docker-custom-image-name
$dockerHubContainerPath
--name $appName
--resource-group
fourthCoffeePublicWebResourceGroup
```

```
az webapp create
--name $appName
--plan AppServiceLinuxDockerPlan
--resource-group
fourthCoffeePublicWebResourceGroup
```

```
#/bin/bash
appName="FourthCofeePublicWeb$random"
location="WestUS"
dockerHubContainerPath="FourthCofee/publicwe
fqdn="http://fourthcofee.com">www.fourth
```

```
az webapp config hostname add
--webapp-name $appName
--resource-group
fourthCoffeePublicWebResourceGroup \
--hostname $fqdn
```

Answer Area

Correct Answer:

Azure CLI commands

Answer Area

```
#/bin/bash
appName="FourthCofeePublicWeb$random"
location="WestUS"
dockerHubContainerPath="FourthCofee/publicwe
fqdn="http://fourthcofee.com">www.fourth
```

```
az webapp create
--name $appName
--plan AppServiceLinuxDockerPlan
--resource-group
fourthCoffeePublicWebResourceGroup
```

```
az webapp config hostname add
--webapp-name $appName
--resource-group
fourthCoffeePublicWebResourceGroup \
--hostname $fqdn
```

```
az webapp config container set
--docker-custom-image-name
$dockerHubContainerPath
--name $appName
--resource-group
fourthCoffeePublicWebResourceGroup
```

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