

# Microsoft

## Exam Questions AZ-204

Developing Solutions for Microsoft Azure



NEW QUESTION 1

- (Topic 8)  
You are developing an Azure Durable Function to manage an online ordering process. The process must call an external API to gather product discount information.  
You need to implement Azure Durable Function.  
Which Azure Durable Function types should you use? Each correct answer presents part of the solution  
NOTE: Each correct selection is worth ore point

- A. Orchestrator
- B. Entity
- C. Activity
- D. Client

Answer: AB

Explanation:  
<https://learn.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-types- features-overview>

NEW QUESTION 2

DRAG DROP - (Topic 8)  
You are developing an Azure Function app. The app must meet the following requirements:  
? Enable developers to write the functions by using the Rust language.  
? Declaratively connect to an Azure Blob Storage account.  
You need to implement the app.  
Which Azure Function app 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.

Features	Answer Area	
	Requirement	Feature
Custom handler	Enable developers to write the functions by using the Rust language.	Feature
Extension bundle	Declaratively connect to an Azure Blob Storage account.	Feature
Trigger		
Runtime		
Policy		
Hosting plan		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Box 1: Custom handler  
Custom handlers can be used to create functions in any language or runtime by running an HTTP server process, for example Go or Rust.  
Box 2: Trigger  
Functions are invoked by a trigger and can have exactly one. In addition to invoking the function, certain triggers also serve as bindings. You may also define multiple bindings in addition to the trigger. Bindings provide a declarative way to connect data to your code.

NEW QUESTION 3

- (Topic 8)  
You are developing an ASP.NET Core website that uses Azure FrontDoor. The website is used to build custom weather data sets for researchers. Data sets are downloaded by users as Comma Separated Value (CSV) files. The data is refreshed every 10 hours.  
Specific files must be purged from the FrontDoor cache based upon Response Header values.  
You need to purge individual assets from the Front Door cache. Which type of cache purge should you use?

- A. single path
- B. wildcard
- C. root domain

Answer: A

Explanation:  
These formats are supported in the lists of paths to purge:  
? Single path purge: Purge individual assets by specifying the full path of the asset (without the protocol and domain), with the file extension, for example, /pictures/strasbourg.png;  
? Wildcard purge: Asterisk (\*) may be used as a wildcard. Purge all folders, subfolders, and files under an endpoint with /\* in the path or purge all subfolders and files under a specific folder by specifying the folder followed by /\*, for example, /pictures/\*.  
? Root domain purge: Purge the root of the endpoint with "/" in the path.  
Reference:

<https://docs.microsoft.com/en-us/azure/frontdoor/front-door-caching>

**NEW QUESTION 4**

- (Topic 8)

A company is implementing a publish-subscribe (Pub/Sub) messaging component by using Azure Service Bus. You are developing the first subscription application.

In the Azure portal you see that messages are being sent to the subscription for each topic. You create and initialize a subscription client object by supplying the correct details, but the subscription application is still not consuming the messages.

You need to ensure that the subscription client processes all messages. Which code segment should you use?

- A. `await subscriptionClient.AddRuleAsync(new RuleDescription (RuleDescription.DefaultRuleName, new TrueFilter()));`
- B. `subscriptionClient = new SubscriptionClient(ServiceBusConnectionString, TopicName, SubscriptionName); D18912E1457D5D1DDCBD40AB3BF70D5D`
- C. `await subscriptionClient.CloseAsync();`
- D. `subscriptionClient.RegisterMessageHandler(ProcessMessagesAsync, messageHandlerOptions);`

**Answer:** D

**Explanation:**

Using topic client, call `RegisterMessageHandler` which is used to receive messages continuously from the entity. It registers a message handler and begins a new thread to receive messages. This handler is waited on every time a new message is received by the receiver.

`subscriptionClient.RegisterMessageHandler(ReceiveMessagesAsync, messageHandlerOptions);`

Reference:

<https://www.c-sharpcorner.com/article/azure-service-bus-topic-and-subscription-pub-sub/>

**NEW QUESTION 5**

- (Topic 8)

You develop Azure solutions.

You must connect to a No-SQL globally-distributed database by using the .NET API. You need to create an object to configure and execute requests in the database. Which code segment should you use?

- A. `new Container(EndpointUri, PrimaryKey);`
- B. `new Database(Endpoint, PrimaryKey);`
- C. `new CosmosClient(EndpointUri, PrimaryKey);`

**Answer:** C

**Explanation:**

Example:

`// Create a new instance of the Cosmos Client`

`this.cosmosClient = new CosmosClient(EndpointUri, PrimaryKey)`

`//ADD THIS PART TO YOUR CODE`

`await this.CreateDatabaseAsync();`

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql-api-get-started>

**NEW QUESTION 6**

- (Topic 8)

You ate designing a small app that will receive web requests containing encoded geographic coordinates. Calls to the app will occur infrequently.

Which compute solution should you recommend?

- A. Azure Functions
- B. Azure App Service
- C. Azure Batch
- D. Azure API Management

**Answer:** B

**NEW QUESTION 7**

DRAG DROP - (Topic 8)

You manage several existing Logic Apps.

You need to change definitions, add new logic, and optimize these apps on a regular basis. What should you use? To answer, drag the appropriate tools to the correct functionalities.

Each tool 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.

Tools	Functionality	Tool
Logic Apps Designer	Edit B2B workflows	
Code View Editor	Edit definitions in JSON	
Enterprise Integration Pack	Visually add functionality	

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Enterprise Integration Pack

After you create an integration account that has partners and agreements, you are ready to create a business to business (B2B) workflow for your logic app with the Enterprise Integration Pack.

Box 2: Code View Editor

To work with logic app definitions in JSON, open the Code View editor when working in the Azure portal or in Visual Studio, or copy the definition into any editor that you want.

Box 3: Logical Apps Designer

You can build your logic apps visually with the Logic Apps Designer, which is available in the Azure portal through your browser and in Visual Studio.

References:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-enterprise-integration-b2b> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-author-definitions> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

**NEW QUESTION 8**

DRAG DROP - (Topic 8)

You develop and deploy an Azure Logic App that calls an Azure Function app. The Azure Function App includes an OpenAPI (Swagger) definition and uses an Azure Blob storage account. All resources are secured by using Azure Active Directory (Azure AD).

The Logic App must use Azure Monitor logs to record and store information about runtime data and events. The logs must be stored in the Azure Blob storage account.

You need to set up Azure Monitor logs and collect diagnostics data for the Azure Logic App.

Which three 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.

**Actions**

Create action groups and alert rules.

Create a Log Analytics workspace.

Install the Logic Apps Management solution.

Add a diagnostic setting to the Azure Function App.

Create an Azure storage account.

Add a diagnostic setting to the Azure Logic App.

**Answer Area**

⏪⏩

⏴⏵

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create a Log Analytics workspace

Before you start, you need a Log Analytics workspace.

Step 2: Install the Logic Apps Management solution

To set up logging for your logic app, you can enable Log Analytics when you create your logic app, or you can install the Logic Apps Management solution in your Log Analytics workspace for existing logic apps.

Step 3: Add a diagnostic setting to the Azure Logic App Set up Azure Monitor logs

? In the Azure portal, find and select your logic app.

? On your logic app menu, under Monitoring, select Diagnostic settings > Add diagnostic setting.

**NEW QUESTION 9**

DRAG DROP - (Topic 8)

You have an application that provides weather forecasting data to external partners. You use Azure API Management to publish APIs.

You must change the behavior of the API to meet the following requirements:

- Support alternative input parameters.
- Remove formatting text from responses.
- Provide additional context to back-end services.

Which types of policies should you implement? To answer, drag the policy types to the correct scenarios. Each policy type 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.

**Policy types**

Inbound

Outbound

Backend

**Answer Area**

**Requirement**

Support alternative input parameters.

Remove formatting text from responses.

Provide additional context to back-end services.

**Policy type**

policy type

policy type

policy type

A. Mastered

B. Not Mastered

**Explanation:**

Policy types	Answer Area	Requirement	Policy type
Inbound		Support alternative input parameters.	Inbound
Outbound		Remove formatting text from responses.	Outbound
Backend		Provide additional context to back-end services.	Inbound

HOTSPOT - (Topic 8)

You create an `appsettings.json` file containing the certificate name, client identifier for the application, and the tenant identifier of the Azure active Directory (Azure AD). You create a method named `ReadCertificate` to return the X509 certificate by name.

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

```
AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app = new ConfidentialClientApplicationBuilder
    .Create(config.ClientId)
    .WithCertificate(certificate)
    .WithAuthority(new Uri(config.Authority))
    .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(
    scopes, app, config).ExecuteAsync();
```

- Answer: A**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-acquire-token?tabs=dotnet#acquiretokenforclient-api>

HOTSPOT - (Topic 8)

You need to implement the bindings for the Azure Function App.

Note: Each Correct Selection is worth one point.



A. Mastered  
B. Not Mastered

**Explanation:**

### NEW QUESTION 13

## DRAG DROP - (Topic 8)

You are developing a microservices solution. You plan to deploy the solution to a multinode Azure Kubernetes Service (AKS) cluster.

You need to deploy a solution that includes the following features:

- ? reverse proxy capabilities
- ? configurable traffic routing
- ? TLS termination with a custom certificate

Which components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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.

Components

Helm

Draft

Brigade

KubeCtl

Ingress Controller

CoreDNS

Virtual Kubelet

Answer area

Action

Deploy solution.

View cluster and external IP addressing.

Implement a single, public IP endpoint that is routed to multiple microservices.

Component

Component

Component

Component

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Helm

To create the ingress controller, use Helm to install nginx-ingress.

Box 2: kubectl

To find the cluster IP address of a Kubernetes pod, use the kubectl get pod command on your local machine, with the option -o wide .

Box 3: Ingress Controller

An ingress controller is a piece of software that provides reverse proxy, configurable traffic routing, and TLS termination for Kubernetes services. Kubernetes ingress resources are used to configure the ingress rules and routes for individual Kubernetes services.

**NEW QUESTION 15**

- (Topic 8)

You develop and deploy a web app to Azure App Service. The Azure App Service uses a Basic plan in a region.

Users report that the web app is responding must capture the complete call stack to help performance issues in code. Call stack data must be correlated across app instances. You must minimize cost and impact to users on the web app.

You need to capture the telemetry.

Which three actions should you perform? Each answer presents part Of the solution NOTE: Each correct selection is worth point

- A. Enable Application Insights site extensions.  
 B. Enable Profiler.  
 C. Restart all apps in the App Service plan.  
 D. Enable Snapshot debugger.  
 E. Enable remote debugging.  
 F. Enable the Always On setting for the app service.  
 G. Upgrade the Azure App Service plan to Premium

**Answer:** CDF

**NEW QUESTION 16**

HOTSPOT - (Topic 8)

You are developing an application that runs in several customer Azure Kubernetes Service clusters, within each cluster, a pod runs that collects performance data to be analyzed later, a large amount of data is collected so saving latency must be minimized

The performance data must be stored so that pod restarts do not impact the stored data. Write latency should be minimized.

You need to configure blob storage.

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

apiVersion: storage.k8s.io/v1

kind:

metadata: PodStorage  
StorageClass  
PersistentVolume  
PersistentVolumeClaim

name: data-store

provisioner: kubernetes.io,

azure-disk  
azure-file  
portworx-volume  
scaleio

parameters:

skuName: Premium\_LRS

reclaimPolicy: 

local  
retain  
delete

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

apiVersion: storage.k8s.io/v1

kind:

metadata: PodStorage  
StorageClass  
PersistentVolume  
PersistentVolumeClaim

name: data-store

provisioner: kubernetes.io,

azure-disk  
azure-file  
portworx-volume  
scaleio

parameters:

skuName: Premium\_LRS

reclaimPolicy: 

local  
retain  
delete

NEW QUESTION 19

HOTSPOT - (Topic 8)

You are implementing a software as a service (SaaS) ASP.NET Core web service that will run as an Azure Web App. The web service will use an on-premises SQL Server database for storage. The web service also includes a WebJob that processes data updates. Four customers will use the web service.

- Each instance of the WebJob processes data for a single customer and must run as a singleton instance.
- Each deployment must be tested by using deployment slots prior to serving production data.
- Azure costs must be minimized.
- Azure resources must be located in an isolated network. You need to configure the App Service plan for the Web App.

How should you configure the App Service plan? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.



## App service plan setting

## Value

Number of VM instances

	▼
2	
4	
8	
16	

Pricing tier

	▼
Isolated	
Standard	
Premium	
Consumption	

- A. Mastered
- B. Not Mastered

**Answer: A**

### Explanation:

Number of VM instances: 4

You are not charged extra for deployment slots.

Pricing tier: Isolated

The App Service Environment (ASE) is a powerful feature offering of the Azure App Service that gives network isolation and improved scale capabilities. It is essentially a deployment of the Azure App Service into a subnet of a customer's Azure Virtual Network (VNet).

References:

<https://azure.microsoft.com/sv-se/blog/announcing-app-service-isolated-more-power-scale-and-ease-of-use/>

## NEW QUESTION 20

- (Topic 8)

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 question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Margie's Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution.

You create the index in Azure Search.

You need to import the restaurant data into the Azure Search service by using the Azure Search .NET SDK.

Solution:

- \* 1. Create a SearchIndexClient object to connect to the search index.
- \* 2. Create a DataContainer that contains the documents which must be added.
- \* 3. Create a DataSource instance and set its Container property to the DataContainer.
- \* 4. Call the Documents.Suggest method of the SearchIndexClient and pass the DataSource.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

### Explanation:

Use the following method:

- \* 1.- Create a SearchIndexClient object to connect to the search index
- \* 2.- Create an IndexBatch that contains the documents which must be added.
- \* 3.- Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

References:

<https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk>

## NEW QUESTION 22

- (Topic 8)

You are developing an Azure-based web application. The application goes offline periodically to perform offline data processing. While the application is offline, numerous Azure Monitor alerts fire which result in the on-call developer being paged.

The application must always log when the application is offline for any reason.

You need to ensure that the on-call developer is not paged during offline processing. What should you do?

- A. Add Azure Monitor alert processing rules to suppress notifications.
- B. Create an Azure Monitor Metric Alert.
- C. Build an Azure Monitor action group that suppresses the alerts.
- D. Disable Azure Monitor Service Health Alerts during offline processing.

**Answer: C**

NEW QUESTION 26

- (Topic 8)

You are a developer for a SaaS company that offers many web services. All web services for the company must meet the following requirements:

- ? Use API Management to access the services
- ? Use OpenID Connect for authentication
- ? Prevent anonymous usage

A recent security audit found that several web services can be called without any authentication.

Which API Management policy should you implement?

- A. jsonp
- B. authentication-certificate
- C. check-header
- D. validate-jwt

Answer: D

Explanation:

Add the validate-jwt policy to validate the OAuth token for every incoming request. Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad>

NEW QUESTION 27

- (Topic 8)

You are developing an e-commerce solution that uses a microservice architecture.

You need to design a communication backplane for communicating transactional messages between various parts of the solution. Messages must be communicated in first- in-first-out (FIFO) order.

What should you use?

- A. Azure Storage Queue
- B. Azure Event Hub
- C. Azure Service Bus
- D. Azure Event Grid

Answer: C

Explanation:

As a solution architect/developer, you should consider using Service Bus queues when:

- ? Your solution requires the queue to provide a guaranteed first-in-first-out (FIFO) ordered delivery.

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted>

NEW QUESTION 30

DRAG DROP - (Topic 8)

You have an Azure Cosmos DB for NoSQL account.

You plan to develop two apps named App1 and App2 that will use the change feed functionality to track changes to containers.

App1 will use the pull model and App2 will use the push model.

You need to choose the method to track the most recently processed change in App1 and App2.

Which component should you use? To answer, drag the appropriate components to the correct apps. Each component 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.

Components

Lease container

Integrated cache

Continuation token

Answer Area

App	Component
App1	
App2	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Components

Lease container

Integrated cache

Continuation token

Answer Area

App	Component
App1	Continuation token
App2	Lease container

NEW QUESTION 33

HOTSPOT - (Topic 8)

You develop several Azure Grid to include hundreds of event types, such as billing, inventory, and shipping updates. Events must be sent to a single endpoint for the Azure Functions app to process. The events must be filtered by event type before processing. You must have authorization and authentication control to partition your tenants to receive the event data. You need to configure Azure Event Grid. Which configuration should you use? To answer, select the appropriate values in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Configuration Value
Third-party system endpoint to send events	<div>system topic</div> <div>system topic</div> <div>custom topic</div> <div>event domain</div> <div>event subscription</div>
Azure Functions app endpoint to handle filtered events	<div>event domain</div> <div>system topic</div> <div>custom topic</div> <div>event domain</div> <div>event subscription</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Requirement	Configuration Value
Third-party system endpoint to send events	<div>system topic</div> <div>system topic</div> <div>custom topic</div> <div>event domain</div> <div>event subscription</div>
Azure Functions app endpoint to handle filtered events	<div>event domain</div> <div>system topic</div> <div>custom topic</div> <div>event domain</div> <div>event subscription</div>

NEW QUESTION 37

HOTSPOT - (Topic 8)

You are developing an application that uses a premium block blob storage account. You are optimizing costs by automating Azure Blob Storage access tiers. You apply the following policy rules to the storage account. You must determine the implications of applying the rules to the data. (Line numbers are included for reference only.)

```
01 {
02   "rules":
03   {
04     "name": "agingDataRule",
05     "enabled": true,
06     "type": "Lifecycle",
```

Answer Area

	Yes	No
Block blobs prefixed with container1/salesorders or container2/inventory which have not been modified in over 60 days are moved to cool storage. Blobs that have not been modified in 120 days are moved to the archive tier.	<input type="radio"/>	<input type="radio"/>
Blobs are moved to cool storage if they have not been accessed for 30 days.	<input type="radio"/>	<input type="radio"/>
Blobs will automatically be tiered from cool back to hot if accessed again after being tiered to cool.	<input type="radio"/>	<input type="radio"/>
All block blobs older than 730 days will be deleted.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- \* 1. Yes
  - \* 2. Yes
  - \* 3. Yes
  - \* 4. No
- https://docs.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-overview?tabs=azure-portal#move-aging-data-to-a-cooler-tier

NEW QUESTION 39

HOTSPOT - (Topic 8)

You are configuring a development environment for your team. You deploy the latest Visual Studio image from the Azure Marketplace to your Azure subscription.



The development environment requires several software development kits (SDKs) and third-party components to support application development across the organization. You install and customize the deployed virtual machine (VM) for your development team. The customized VM must be saved to allow provisioning of a new team member development environment.

You need to save the customized VM for future provisioning.

Which tools or services should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

Action	Tool or service
Generalize the VM.	<div> Azure PowerShell  Visual Studio command prompt  Azure Migrate  Azure Backup </div>
Store images.	<div> Azure Blob Storage  Azure Data Lake Storage  Azure File Storage  Azure Table Storage </div>

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Box 1: Azure Powershell

Creating an image directly from the VM ensures that the image includes all of the disks associated with the VM, including the OS disk and any data disks. Before you begin, make sure that you have the latest version of the Azure PowerShell module.

You use Sysprep to generalize the virtual machine, then use Azure PowerShell to create the image.

Box 2: Azure Blob Storage References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/capture-image-resource#create-an-image-of-a-vm-using-powershell>

#### NEW QUESTION 40

DRAG DROP - (Topic 8)

You are developing a .NET Core model-view controller (MVC) application hosted on Azure for a health care system that allows providers access to their information.

You develop the following code:

```
services.AddAuthorization (options =>
{
    options.AddPolicy("ProviderPartner", policy =>
    {
        .policy.AddAuthenticationSchemes("Cookie, Bearer");
        policy.RequireAuthenticatedUser();
        policy.RequireRole("ProviderAdmin", "SysAdmin");
        policy.RequireClaim("editor", "partner");
    });
});
```

You define a role named SysAdmin.

You need to ensure that the application meets the following authorization requirements:

? Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.

? Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

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.

```
services.AddAuthorization (options =>
{
    options.AddPolicy("ProviderPartner", policy =>
    {
        .policy.AddAuthenticationSchemes("Cookie, Bearer");
        policy.RequireAuthenticatedUser();
        policy.RequireRole("ProviderAdmin", "SysAdmin");
        policy.RequireClaim("editor", "partner");
    });
});
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1:  
Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.  
Box 2:  
Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

NEW QUESTION 43

HOTSPOT - (Topic 8)

You are developing a solution that uses the Azure Storage Client library for .NET. You have the following code: (Line numbers are included for reference only.)

```
01 CloudBlockBlob src = null;
02 try
03 {
04     src = container.ListBlobs().OfType<CloudBlockBlob>().FirstOrDefault();
05     var id = await src.AcquireLeaseAsync(null);
06     var dst = container.GetBlockBlobReference(src.Name);
07     string cpid = await dst.StartCopyAsync(src);
08     await dst.FetchAttributeAsync();
09     return id;
10 }
11 catch (Exception e)
12 {
13     throw;
14 }
15 finally
16 {
17     if (src != null)
18         await src.FetchAttributesAsync();
19     if (src.Properties.LeaseState != LeaseState.Available)
20         await src.BreakLeaseAsync(new TimeSpan(0));
21 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE:Each correct selection is worth one point.

Statement	Yes	No
The code creates an infinite lease	<input type="radio"/>	<input type="radio"/>
The code at line 06 always creates a new blob	<input type="radio"/>	<input type="radio"/>
The finally block releases the lease	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes  
AcquireLeaseAsync does not specify leaseTime.  
leaseTime is a TimeSpan representing the span of time for which to acquire the lease, which will be rounded down to seconds. If null, an infinite lease will be acquired. If not null, this must be 15 to 60 seconds.  
Box 2: No  
The GetBlockBlobReference method just gets a reference to a block blob in this container.  
Box 3: Yes  
The BreakLeaseAsync method initiates an asynchronous operation that breaks the current lease on this container.

NEW QUESTION 48

- (Topic 8)

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 a .NET method, call the method: BatchClient.PoolOperations.CreateJob



**Answer:** D

**Explanation:**

A Batch job is a logical grouping of one or more tasks. A job includes settings common to the tasks, such as priority and the pool to run tasks on. The app uses the BatchClient.JobOperations.CreateJob method to create a job on your pool.

Note:

Step 1: Create a pool of compute nodes. When you create a pool, you specify the number of compute nodes for the pool, their size, and the operating system. When each task in your job runs, it's assigned to execute on one of the nodes in your pool.

Step 2 : Create a job. A job manages a collection of tasks. You associate each job to a specific pool where that job's tasks will run.

Step 3: Add tasks to the job. Each task runs the application or script that you uploaded to process the data files it downloads from your Storage account. As each task completes, it can upload its output to Azure Storage.

**NEW QUESTION 52**

- (Topic 8)

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

**Answer:** B

**Explanation:**

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>

**NEW QUESTION 53**

HOTSPOT - (Topic 8)

You need to implement the Azure Function for delivery driver profile information.

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

NOTE: Each correct selection is worth one point.

**Answer Area**

Configuration	Value
Code library	<div><div></div><div>Microsoft Authentication Library (MSAL)</div><div>Microsoft Azure Key Vault SDK</div><div>Azure Identity library</div></div>
API	<div><div></div><div>Microsoft Graph</div><div>Azure Active Directory Graph</div><div>Azure Key Vault</div></div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Code Library: MSAL API: Microsoft Graph

<https://docs.microsoft.com/en-us/azure/active-directory/develop/msal-overview>

**NEW QUESTION 57**

- (Topic 8)

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 an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data. You need to ensure the app does not time out and processes the blob data. Solution: Pass the HTTP trigger payload into an Azure Service Bus queue to be processed by a queue trigger function and return an immediate HTTP success response.

Does the solution meet the goal?

- A. Yes  
B. No

Answer: A

Explanation:

Large, long-running functions can cause unexpected timeout issues. General best practices include:  
Whenever possible, refactor large functions into smaller function sets that work together and return responses fast. For example, a webhook or HTTP trigger function might require an acknowledgment response within a certain time limit; it's common for webhooks to require an immediate response. You can pass the HTTP trigger payload into a queue to be processed by a queue trigger function. This approach lets you defer the actual work and return an immediate response.  
Reference:  
<https://docs.microsoft.com/en-us/azure/azure-functions/functions-best-practices>

NEW QUESTION 62

DRAG DROP - (Topic 8)

You are developing a Docker/Go using Azure App Service Web App for Containers. You plan to run the container in an App Service on Linux. You identify a Docker container image to use.  
None of your current resource groups reside in a location that supports Linux. You must minimize the number of resource groups required.  
You need to create the application and perform an initial deployment.  
Which three Azure CLI commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Azure CLI Commands

az group create

az group update

az webapp update

az webapp create

az appservice plan create

Answer Area

⬅

➡

⬆

⬆

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

You can host native Linux applications in the cloud by using Azure Web Apps. To create a Web App for Containers, you must run Azure CLI commands that create a group, then a service plan, and finally the web app itself.  
Step 1: az group create  
In the Cloud Shell, create a resource group with the az group create command.  
Step 2: az appservice plan create  
In the Cloud Shell, create an App Service plan in the resource group with the az appservice plan create command.  
Step 3: az webapp create  
In the Cloud Shell, create a web app in the myAppServicePlan App Service plan with the az webapp create command. Don't forget to replace with a unique app name, and <docker- ID> with your Docker ID.  
References:  
<https://docs.microsoft.com/mt-mt/azure/app-service/containers/quickstart-docker-go?view=sql-server-ver15>

NEW QUESTION 67

DRAG DROP - (Topic 8)

You have an application that provides weather forecasting data to external partners. You use Azure API Management to publish APIs.  
You must change the behavior of the API to meet the following requirements:

- Support alternative input parameters.
- Remove formatting text from responses.
- Provide additional context to back-end services.

Which types of policies should you implement? To answer, drag the policy types to the correct scenarios. Each policy type 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.

Policy types

Inbound

Outbound

Backend

Answer Area

Requirement	Policy type
Rewrite the request URL to match to the format expected by the web service.	<div>policy type</div>
Remove formatting text from responses.	<div>policy type</div>
Forward the user ID that is associated with the subscription key for the original request to the back-end service.	<div>policy type</div>

- A. Mastered
- B. Not Mastered

Answer:

A

**Explanation:**

**Policy types**

Inbound

Outbound

Backend

**Requirement**

Rewrite the request URL to match to the format expected by the web service.

Remove formatting text from responses.

Forward the user ID that is associated with the subscription key for the original request to the back-end service.

**Policy type**

Outbound

Inbound

Backend

**NEW QUESTION 69**

DRAG DROP - (Topic 8)

You are implementing an order processing system. A point of sale application publishes orders to topics in an Azure Service Bus queue. The label property for the topic includes the following data:

Property	Description
ShipLocation	the country/region where the order will be shipped
CorrelationId	a priority value for the order
Quantity	a user-defined field that stores the quantity of items in an order
AuditedAt	a user-defined field that records the date an order is audited

The system has the following requirements for subscriptions

Subscription type	Comments
FutureOrders	This subscription is reserved for future use and must not receive any orders.
HighPriorityOrders	Handle all high priority orders and International orders.
InternationalOrders	Handle orders where the country/region is not United States.
HighQuantityOrders	Handle only orders with quantities greater than 100 units.
AllOrders	This subscription is used for auditing purposes. This subscription must receive every single order. AllOrders has an Action defined that updates the AuditedAt property to include the date and time it was received by the subscription.

You need to implement filtering and maximize throughput while evaluating filters.

Which filter types should you implement? To answer, drag the appropriate filter types to the correct subscriptions. Each filter type 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.

**Filter types**

SQLFilter

CorrelationFilter

No Filter

**Subscription**

FutureOrders

HighPriorityOrders

InternationalOrders

HighQuantityOrders

AllOrders

**Filter type**

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

FutureOrders: SQLFilter HighPriorityOrders: CorrelationFilter

CorrelationID only

InternationalOrders: SQLFilter

Country NOT USA requires an SQL Filter

HighQuantityOrders: SQLFilter

Need to use relational operators so an SQL Filter is needed. AllOrders: No Filter

SQL Filter: SQL Filters - A SqlFilter holds a SQL-like conditional expression that is evaluated in the broker against the arriving messages' user-defined properties and system properties. All system properties must be prefixed with sys. in the conditional expression. The SQL-language subset for filter conditions tests for the



existence of properties (EXISTS), as well as for null-values (IS NULL), logical NOT/AND/OR, relational operators, simple numeric arithmetic, and simple text pattern matching with LIKE.

Correlation Filters - A CorrelationFilter holds a set of conditions that are matched against one or more of an arriving message's user and system properties. A common use is to match against the CorrelationId property, but the application can also choose to match against ContentType, Label, MessageId, ReplyTo, ReplyToSessionId, SessionId, To, and any user-defined properties. A match exists when an arriving message's value for a property is equal to the value specified in the correlation filter. For string expressions, the comparison is case-sensitive. When specifying multiple match properties, the filter combines them as a logical AND condition, meaning for the filter to match, all conditions must match.

Boolean filters - The TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription.

References:  
<https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

**NEW QUESTION 72**

- (Topic 8)

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.

Solution: Enable Application Request Routing (ARR). Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

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>

**NEW QUESTION 77**

HOTSPOT - (Topic 8)

You are developing an Azure Function App. You develop code by using a language that is not supported by the Azure Function App host. The code language supports HTTP primitives.

You must deploy the code to a production Azure Function App environment. You need to configure the app for deployment. Which configuration values should you use? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

Configuration parameter	Configuration value
Publish	<div><div></div><div>Code</div><div>Docker Container</div></div>
Runtime stack	<div><div></div><div>Node.js</div><div>Python</div><div>PowerShell Core</div><div>Custom Handler</div></div>
Version	<div><div></div><div>14 LTS</div><div>7.0</div><div>custom</div></div>

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: Docker container

A custom handler can be deployed to every Azure Functions hosting option. If your handler requires operating system or platform dependencies (such as a language runtime), you mayneed to use a custom container. You can create and deploy your code to Azure Functions as a custom Docker container.

Box 2: PowerShell core

When creating a function app in Azure for custom handlers, we recommend you select .NET Core as the stack. A "Custom" stack for custom handlers will be added in the future. PowerShell Core (PSC) is based on the new .NET Core runtime.

Box 3: 7.0

On Windows: The Azure Az PowerShell module is also supported for use with PowerShell 5.1 on Windows.  
On Linux: PowerShell 7.0.6 LTS, PowerShell 7.1.3, or higher is the recommended version of PowerShell for use with the Azure Az PowerShell module on all platforms.

**NEW QUESTION 81**

HOTSPOT - (Topic 8)

You develop a news and blog content app for Windows devices.  
A notification must arrive on a user's device when there is a new article available for them to view.  
You need to implement push notifications.  
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**

```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
[Box 1] hub =
NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

[Box 2] . [Box 3]
NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails
GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

(notificationHubConnection, notificationHubName);
string windowsToastPayload =
@"<toast><visual><binding template=""ToastText01""><text id=""1"">" +
@"New item to view" + @"</text></binding></visual></toast>";
try
{
var result =
await hub. [Box 4] (windowsToastPayload);
...
}
catch (System.Exception ex)
{
...
}
...
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: NotificationHubClient  
Box 2: NotificationHubClient  
Box 3: CreateClientFromConnectionString  
// Initialize the Notification Hub NotificationHubClient hub =  
NotificationHubClient.CreateClientFromConnectionString(listenConnString, hubName);  
Box 4: SendWindowsNativeNotificationAsync Send the push notification.  
var result = await hub.SendWindowsNativeNotificationAsync(windowsToastPayload);

**NEW QUESTION 86**

HOTSPOT - (Topic 8)

A company runs an international travel and bookings management service. The company plans to begin offering restaurant bookings. You must develop a solution that uses Azure Search and meets the following requirements:

- Users must be able to search for restaurants by name, description, location, and cuisine.
- Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.
- All words in descriptions must be included in searches. You need to add annotations to the restaurant class.

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.



```
[SerializePropertyNameAsCamelCase]
public class Restaurant
{
    [Key, IsFilterable]
    public int RestaurantId { get; set; }
    [IsSearchable, IsFilterable, IsSortable]
    public string Name { get; set; }

    [IsSearchable.IsFilterable.IsSortable, IsFacetable]
    [IsFilterable.IsFacetable, Required]
    [IsSearchable]
    [IsSearchable, Required]
    public string location { get; set; }
    public string Phone { get; set; }

    [Required]
    [IsSearchable]
    [IsFilterable, IsFacetable, Required]
    [IsFilterable, IsFacetable, IsSortable]
    public string Description { get; set; }

    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable, Required]
    public double Rating { get; set; }

    [IsSearchable, IsFilterable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, Key, Required]
    public List<string> Cuisines { get; set; }

    [IsFilterable, IsSortable, Key, Required]
    [IsSearchable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key, IsSearchable]
    [IsFilterable, IsFacetable]
    public bool FamilyFriendly { get; set; }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: [IsSearchable.IsFilterable.IsSortable,IsFacetable] Location

Users must be able to search for restaurants by name, description, location, and cuisine. Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

Box 2: [IsSearchable.IsFilterable.IsSortable,Required] Description

Users must be able to search for restaurants by name, description, location, and cuisine. All words in descriptions must be included in searches.

Box 3: [IsFilterable,IsSortable,IsFaceTable] Rating

Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

Box 4: [IsSearchable.IsFilterable,IsFacetable]

Cuisines

Users must be able to search for restaurants by name, description, location, and cuisine. Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

Box 5: [IsFilterable,IsFacetable] FamilyFriendly

Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

References:

<https://www.henkboelman.com/azure-search-the-basics/>

**NEW QUESTION 87**

- (Topic 8)

You are developing a web application that uses the Microsoft identity platform to authenticate users and resources. The web application calls several REST APIs. The APIs require an access token from the Microsoft identity platform. You need to request a token. Which three properties should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Application secret
- B. Redirect URI/URL
- C. Application name
- D. Supported account type
- E. Application ID

**Answer:** ABE

**NEW QUESTION 89**

- (Topic 8)

You develop a serverless application using several Azure Functions. These functions connect to data from within the code. You want to configure tracing for an Azure Function App project. You need to change configuration settings in the host.json file. Which tool should you use?

- A. Azure portal
- B. Azure PowerShell
- C. Azure Functions Core Tools (Azure CLI)
- D. Visual Studio

**Answer:** A

**Explanation:**

The function editor built into the Azure portal lets you update the function.json file and the code file for a function. The host.json file, which contains some runtime-specific configurations, is in the root folder of the function app.

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-reference#fileupdate>

**NEW QUESTION 90**

HOTSPOT - (Topic 8)

You create the following PowerShell script:

```
$source = New-AzScheduledQueryRuleSource -Query 'Heartbeat | where TimeGenerated > ago(1h)' -DataSourceId "contoso"
$schedule = New-AzScheduledQueryRuleSchedule -FrequencyInMinutes 60 -TimeWindowInMinutes 60
$triggerCondition = New-AzScheduledQueryRuleTriggerCondition -ThresholdOperator "LessThan" -Threshold 5
$aznsActionGroup = New-AzScheduledQueryRuleAznsActionGroup -ActionGroup "contoso" -EmailSubject "Custom email subject"
                  -CustomWebhookPayload "{ 'alert':'#alertrulename', 'IncludeSearchResults':true }"
$alertingAction = New-AzScheduledQueryRuleAlertingAction -AznsAction $aznsActionGroup -Severity "3" -Trigger $triggerCondition
New-AzScheduledQueryRule -ResourceGroupName "contoso" -Location "eastus" -Action $alertingAction -Enabled $true
                      -Description "Alert description" -Schedule $schedule -Source $source -Name "Alert Name"
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No, NOTE:Each correct selection is worth one point.

Statements	Yes	No
A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.	<input type="radio"/>	<input type="radio"/>
A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.	<input type="radio"/>	<input type="radio"/>
The log alert is scheduled to run every two hours.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

The AzScheduledQueryRuleSource is Heartbeat, not CPU.

Box 2: Yes

The AzScheduledQueryRuleSource is Heartbeat!

Note: New-AzScheduledQueryRuleTriggerCondition creates an object of type Trigger Condition. This object is to be passed to the command that creates Alerting Action object.

Box 3: No

The schedule is 60 minutes, not two hours.

-FrequencyInMinutes: The alert frequency.

-TimeWindowInMinutes: The alert time window

The New-AzAscheduledQueryRuleSchedule command creates an object of type Schedule. This object is to be passed to the command that creates Log Alert

Rule.

### NEW QUESTION 92

DRAG DROP - (Topic 8)

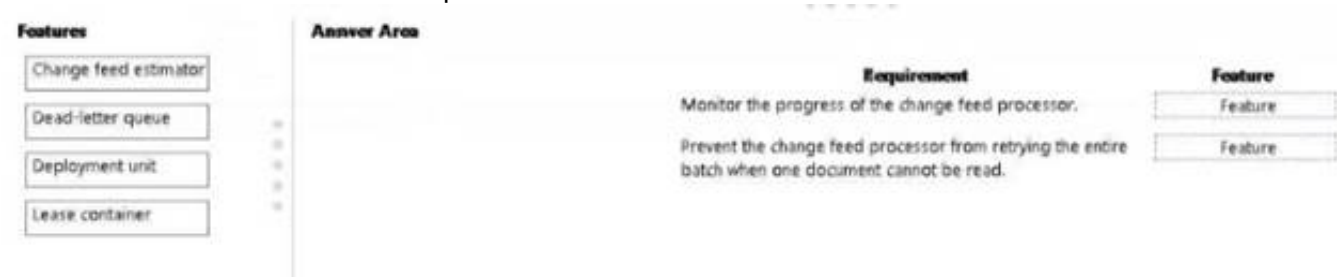
You are implementing an Azure solution that uses Azure Cosmos DB and the latest Azure Cosmos DB SDK. You add a change feed processor to a new container instance.

You attempt to read a batch of 100 documents. The process fails when reading one of the documents. The solution must monitor the progress of the change feed processor instance on the new container as the change feed is read. You must prevent the change feed processor from retrying the entire batch when one document cannot be read.

You need to implement the change feed processor to read the documents.

Which 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.

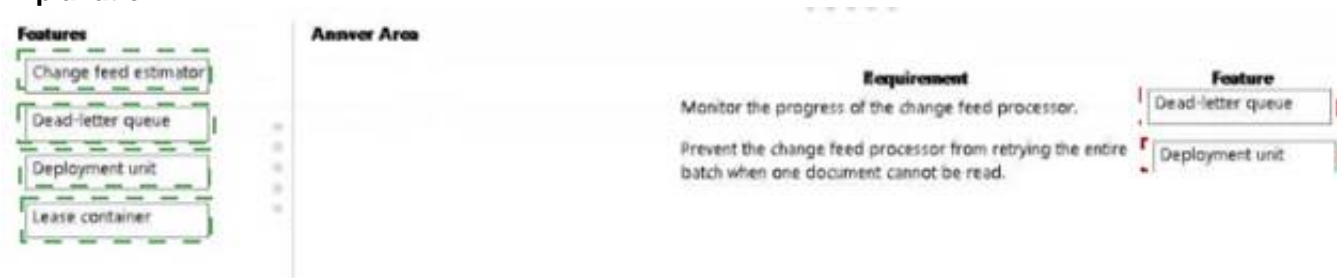
Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



### NEW QUESTION 96

- (Topic 8)

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 and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Disable auto swap. Update the app with a method named statuscheck to run the scripts. Re-enable auto swap and deploy the app to the Production slot. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead update the web.config file to include the applicationInitialization configuration element. Specify custom initialization actions to run the scripts.

Note: Some apps might require custom warm-up actions before the swap. The applicationInitialization configuration element in web.config lets you specify custom initialization actions. The swap operation waits for this custom warm-up to finish before swapping with the target slot. Here's a sample web.config fragment.

```
<system.webServer>
<applicationInitialization>
<add initializationPage="/" hostname="[app hostname]" />
<add initializationPage="/Home/About" hostname="[app hostname]" />
</applicationInitialization>
</system.webServer>
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots#troubleshoot-swaps>

### NEW QUESTION 101

DRAG DROP - (Topic 8)

You are developing an Azure solution.

You need to develop code to access a secret stored in Azure Key Vault.

How should you complete the code segment? 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**

DefaultAzureCredential  
ClientSecretCredential  
CloudClients  
SecretClient

**Answer Area**

```
string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");  
var var2 = new Code segment ( new Uri(var1), new Code segment ());
```

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: SecretClient

Box 2: DefaultAzureCredential

In below example, the name of your key vault is expanded to the key vault URI, in the format "https://<your-key-vault-name>.vault.azure.net". This example is using 'DefaultAzureCredential()' class from Azure Identity Library, which allows to use the same code across different environments with different options to provide identity.

```
string keyVaultName = Environment.GetEnvironmentVariable("KEY_VAULT_NAME"); var kvUri = "https://" + keyVaultName + ".vault.azure.net";  
var client = new SecretClient(new Uri(kvUri), new DefaultAzureCredential());
```

**NEW QUESTION 105**

- (Topic 8)

You are developing an internal website for employees to view sensitive data. The website uses Azure Active Directory (AAD) for authentication. You need to implement multifactor authentication for the website.

What should you do? Each correct answer presents part of the solution. NOTE; Each correct selection is worth one point.

- A. In Azure AD, create a new conditional access policy.  
B. In Azure AD, enable application proxy.  
C. Configure the website to use Azure AD B2C.  
D. In Azure AD conditional access, enable the baseline policy.  
E. Upgrade to Azure AD Premium.

**Answer:** AE

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-getstarted>

**NEW QUESTION 109**

- (Topic 8)

You develop and deploy an ASP.NET Core application that connects o an Azure Database for MySQL instance.

Connections to the database appear to drop intermittently and the application code does not handle the connection failure.

You need to handle the transient connection errors in code by implementing retries. What are three possible ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Increase connection repeat attempts exponentially up to 120 seconds.  
B. Close the database connection and immediately report an error.  
C. Wait five seconds before repeating the connection attempt to the database.  
D. Disable connection pooling and configure a second Azure Database for MySQL instance.  
E. Set a maximum number of connection attempts to 10 and report an error on subsequent connections.

**Answer:** BCE

**NEW QUESTION 114**

- (Topic 8)

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.

Margie's Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution.

You create the index in Azure Search.

You need to import the restaurant data into the Azure Search service by using the Azure Search NET SDK.

Solution:

- \* 1. Create a SearchServiceClient object to connect to the search index.
- \* 2. Create a DataContainer that contains the documents which must be added.
- \* 3. Create a DataSource instance and set its Container property to the DataContainer.
- \* 4. Set the DataSource property of the SearchServiceClient

Does the solution meet the goal?

- A. Yes  
B. No

**Answer:** B

**Explanation:**

Use the following method:

- \* 1.Create a SearchIndexClient object to connect to the search index
- \* 2.Create an IndexBatch that contains the documents which must be added.
- \* 3.Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

References:

<https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk>

**NEW QUESTION 115**

- (Topic 8)

You are preparing to deploy an ASP.NET Core website to an Azure Web App from a GitHub repository. The website includes static content generated by a script.

You plan to use the Azure Web App continuous deployment feature.

You need to run the static generation script before the website starts serving traffic. What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Create a file named .deployment in the root of the repository that calls a script which generates the static content and deploys the website.
- B. Add a PreBuild target in the websites csproj project file that runs the static content generation script.
- C. Create a file named run.cmd in the folder /run that calls a script which generates the static content and deploys the website.
- D. Add the path to the static content generation tool to WEBSITE\_RUN\_FROM\_PACKAGE setting in the host.json file.

**Answer:** AD

**Explanation:**

A: To customize your deployment, include a .deployment file in the repository root.

You just need to add a file to the root of your repository with the name .deployment and the content:

[config]

command = YOUR COMMAND TO RUN FOR DEPLOYMENT

this command can be just running a script (batch file) that has all that is required for your deployment, like copying files from the repository to the web root directory for example.

D: In Azure, you can run your functions directly from a deployment package file in your function app. The other option is to deploy your files in the d:\home\site\wwwroot directory of your function app (see A above).

To enable your function app to run from a package, you just add a WEBSITE\_RUN\_FROM\_PACKAGE setting to your function app settings.

Note: The host.json metadata file contains global configuration options that affect all functions for a function app.

References:

<https://github.com/projectkudu/kudu/wiki/Custom-Deployment-Script>

<https://docs.microsoft.com/bs-latn-ba/azure/azure-functions/run-functions-from-deployment-package>

**NEW QUESTION 120**

HOTSPOT - (Topic 8)

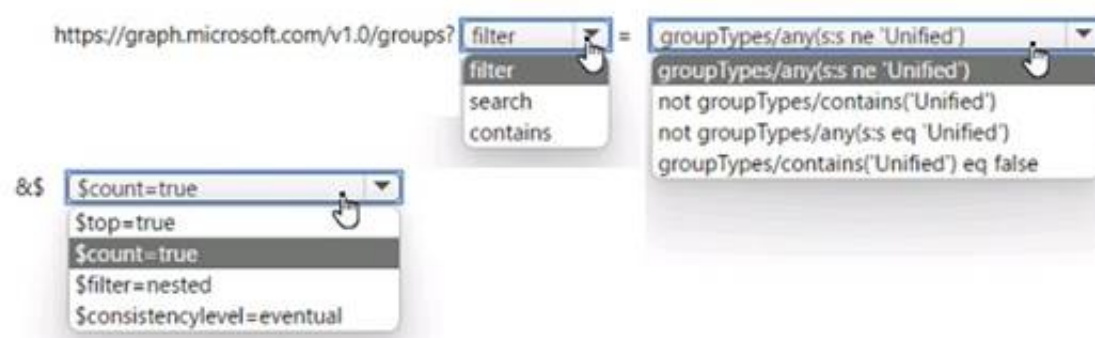
You develop a web app that interacts with Azure Active Directory (Azure AD) groups by using Microsoft Graph.

You build a web page that shows all Azure AD groups that are not of the type 'Unified'. You need to build the Microsoft Graph query for the page.

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

NOTE: Each correct selection is worth one point.

**Answer Area**

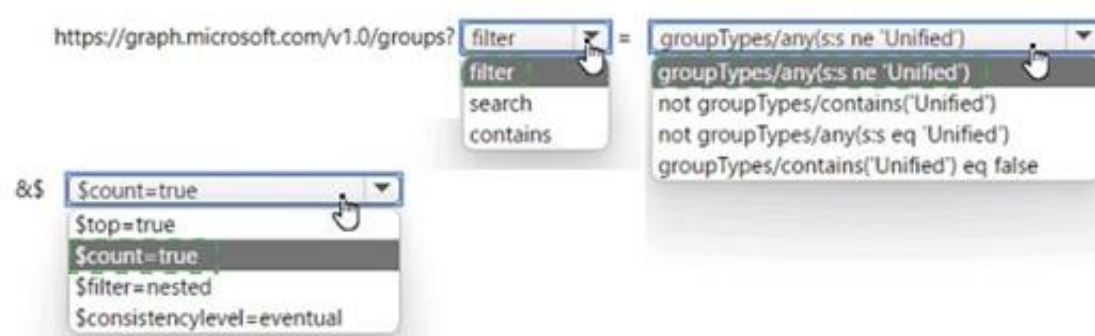


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**





### NEW QUESTION 125

- (Topic 8)

You are developing a mobile app that uses an API which stores geospabal data in Azure Cosmos D& The app will be used to find restaurants in a particular area and related information including food types, menu information and the optimal route to a selected restaurant from the user's current location. Which Azure Cosmos DB API should you use for the API?

- A. MongoDB
- B. Gremlin
- C. Cassandra
- D. Core

**Answer:** A

### NEW QUESTION 130

HOTSPOT - (Topic 8)

You are developing an ASP.NET Core app that includes feature flags which are managed by Azure App Configuration. You create an Azure App Configuration store named AppFeatureFlagStorethat contains a feature flag named Export.

You need to update the app to meet the following requirements:

? Use the Export feature in the app without requiring a restart of the app.

? Validate users before users are allowed access to secure resources.

? Permit users to access secure resources.

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 void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Error");
    }

    app. [v] ();

    app. [v] ();

    app. [v] ();

    app.UseEndpoint(endpoints =>
    {
        endpoints.MapRazorPages();
    });
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Box 1: UseAuthentication

Need to validate users before users are allowed access to secure resources.

UseAuthentication adds the AuthenticationMiddleware to the specified IApplicationBuilder, which enables authentication capabilities.

Box 2: UseAuthorization

Need to permit users to access secure resources.

UseAuthorization adds the AuthorizationMiddleware to the specified IApplicationBuilder, which enables authorization capabilities.

Box 3: UseStaticFiles

Need to use the Export feature in the app without requiring a restart of the app. UseStaticFiles enables static file serving for the current request path



Answer Area

```

<inbound>
<base/>
<set-variable name="imageSize" value="@{context.Request.Headers["Content-Length"]}[0]"/>
<choose>
  <when condition="@{int.Parse(context.Variables.GetValueOrDefault<string>("imageSize"))<512000}">
    <set-headername="x-large-request"exists-action="
    <value>true</value>
  </set-header>
</when>

  <otherwise>
    <set-backend-service
    </or set-body
  </choic
  </inbound
  <set-backend-service
  <set-query-parameter

```

delete

skip

append

delete

override

base-url

base-url

dimension

vary-by-header

publish-to-dapr

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```

<inbound>
<base/>
<set-variable name="imageSize" value="@{context.Request.Headers["Content-Length"]}[0]"/>
<choose>
  <when condition="@{int.Parse(context.Variables.GetValueOrDefault<string>("imageSize"))<512000}">
    <set-headername="x-large-request"exists-action="
    <value>true</value>
  </set-header>
</when>

  <otherwise>
    <set-backend-service
    </or set-body
  </choic
  </inbound
  <set-backend-service
  <set-query-parameter

```

delete

skip

append

delete

override

base-url

base-url

dimension

vary-by-header

publish-to-dapr

NEW QUESTION 139

DRAG DROP - (Topic 8)

You are developing a new page for a website that uses Azure Cosmos DB for data storage. The feature uses documents that have the following format:

```

{
  "name": "John",
  "city" : "Seattle"
}

```

You must display data for the new page in a specific order. You create the following query for the page:

```

SELECT*
FROM People p
ORDER BY p.name, p.city DESC

```

You need to configure a Cosmos DB policy to the support the query.

How should you configure the policy? To answer, drag the appropriate JSON segments to the correct locations. Each JSON 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.

JSON segments

orderBy

sortOrder

ascending

descending

compositeIndexes

Answer Area

```

{
  "automatic": true,
  "ngMode": "Consistent",
  "includedPaths": [
    {
      "path": "/*"
    }
  ], "excludedPaths": [],
  "
  [
    {
      "path": "/name", "order": "descending"
    },
    {
      "path": "/city", "order": "
  ]
}

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: compositeIndexes

You can order by multiple properties. A query that orders by multiple properties requires a composite index.

Box 2: descending

Example: Composite index defined for (name ASC, age ASC):

It is optional to specify the order. If not specified, the order is ascending.

```
{
  "automatic":true, "indexingMode":"Consistent", "includedPaths":[
  {
    "path":"/"
  },
  ],
  "excludedPaths":[], "compositeIndexes":[ [
  {
    "path":"/name",
  },
  ],
  {
    "path":"/age",
  }
  ]
  ]
}
```

**NEW QUESTION 142**

- (Topic 8)

You are developing an Azure App Service web app.

The web app must securely store session information in Azure Redis Cache. You need to connect the web app to Azure Redis Cache.

Which three Azure Redis Cache properties should you use? Each correct answer presents part of the solution.

Each correct selection is worth one point.

- A. SSL port
- B. Subscription name
- C. Location
- D. Host name
- E. Access key
- F. Subscription id

**Answer:** ACD

**Explanation:**

<https://learn.microsoft.com/en-us/azure/azure-cache-for-redis/cache-web-app-howto>

**NEW QUESTION 146**

DRAG DROP - (Topic 8)

You are preparing to deploy an application to an Azure Kubernetes Service (AKS) cluster. The application must only be available from within the VNet that includes the cluster.

You need to deploy the application.

How should you complete the deployment YAML? To answer, drag the appropriate YAML segments to the correct locations. Each YAML 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

Ingress

Service

LoadBalancer

Deployment

ingress.class

azure-load-balancer-internal

Answer Area

apiVersion: v1

kind: Code segment

metadata:

name: web-app

annotations:

service.beta.kubernetes. Code segment : "true"

spec:

type: Code segment

ports:

- port: 80

selector:

app: web-app

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

To create an internal load balancer, create a service manifest named internal-lb.yaml with the service type LoadBalancer and the azure-load-balancer-internal



annotation as shown in the following example:

YAML:

apiVersion: v1 kind: Service metadata:

name: internal-app annotations:

service.beta.kubernetes.io/azure-load-balancer-internal: "true" spec:

type: LoadBalancer ports:

- port: 80 selector:

app: internal-app

References:

<https://docs.microsoft.com/en-us/azure/aks/internal-lb>

#### NEW QUESTION 148

- (Topic 8)

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 and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Update the web.config file to include the applicationInitialization configuration element. Specify custom initialization actions to run the scripts.

Does the solution meet the goal?

A. Yes

B. No

**Answer: A**

#### Explanation:

Specify custom warm-up.

Some apps might require custom warm-up actions before the swap. The applicationInitialization configuration element in web.config lets you specify custom initialization actions. The swap operation waits for this custom warm-up to finish before swapping with the target slot. Here's a sample web.config fragment.

```
<system.webServer>
```

```
<applicationInitialization>
```

```
<add initializationPage="/" hostname="[app hostname]" />
```

```
<add initializationPage="/Home/About" hostname="[app hostname]" />
```

```
</applicationInitialization>
```

```
</system.webServer>
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots#troubleshoot-swaps>

#### NEW QUESTION 149

DRAG DROP - (Topic 8)

You are preparing to deploy a medical records application to an Azure virtual machine (VM). The application will be deployed by using a VHD produced by an on-premises build server.

You need to ensure that both the application and related data are encrypted during and after deployment to Azure.

Which three 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.

**Actions**

Encrypt the on-premises VHD by using BitLocker without a TPM. Upload the VM to Azure Storage.

Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension`.

Run the Azure PowerShell command `Set-AzureRmVMOsDisk`.

Encrypt the on-premises VHD by using BitLocker with a TPM. Upload the VM to Azure Storage.

Run the Azure PowerShell command `New-AzureRmVM`.

**Answer area**

>

<

↑

↓

A. Mastered

B. Not Mastered

**Answer: A**

#### Explanation:

Step 1: Encrypt the on-premises VHD by using BitLocker without a TPM. Upload the VM to Azure Storage

Step 2: Run the Azure PowerShell command `Set-AzureRmVMOsDisk`

To use an existing disk instead of creating a new disk you can use the `Set-AzureRmVMOsDisk` command.

Example:

```
$osDiskName = $vmname+'_osDisk'
```

```
$osDiskCaching = 'ReadWrite'
```

```
$osDiskVhdUri = "https://$storageName.blob.core.windows.net/vhds/" + $vmname + "_os.vhd"
```

```
$vm = Set-AzureRmVMOsDisk -VM $vm -VhdUri $osDiskVhdUri -name $osDiskName - Create
```

Step 3: Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension` Use the `Set-AzureRmVMDiskEncryptionExtension` cmdlet to enable encryption on a running IaaS virtual machine in Azure.



Incorrect:  
Not TPM: BitLocker can work with or without a TPM. A TPM is a tamper resistant security chip on the system board that will hold the keys for encryption and check the integrity of the boot sequence and allows the most secure BitLocker implementation. A VM does not have a TPM.  
References:  
<https://www.itprotoday.com/iaaspaas/use-existing-vhd-azurerm-vm>

**NEW QUESTION 151**

DRAG DROP - (Topic 8)  
You develop and deploy a web app to Azure App Service in a production environment. You scale out the web app to four instances and configure a staging slot to support changes.  
You must monitor the web app in the environment to include the following requirements:  
• Increase web app availability by re-routing requests away from instances with error status codes and automatically replace instances if they remain in an error state after one hour.  
• Send web server logs, application logs, standard output and standard error messaging to an Azure Storage blob account.  
You need to configure Azure App Service.  
Which values should you use? To answer, drag the appropriate configuration value to the correct requirements. Each configuration value may be used once, more than....

Configuration values

Health check

Diagnostic setting

Deployment slot

Autoscale rule

Zone redundancy

Answer Area

Requirement	Configuration value
Increase availability	
Send logs	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Configuration values

Health check

Diagnostic setting

Deployment slot

Autoscale rule

Zone redundancy

Answer Area

Requirement	Configuration value
Increase availability	Autoscale rule
Send logs	Zone redundancy

**NEW QUESTION 155**

HOTSPOT - (Topic 8)  
You develop and deploy a web app to Azure App service. The web app allows users to authenticate by using social identity providers through the Azure B2C service. All user profile information is stored in Azure B2C.  
You must update the web app to display common user properties from Azure B2C to include the following information:  
? Email address  
? Job title  
? First name  
? Last name  
? Office Location  
You need to implement the user properties in the web app.

Requirement

API to access user properties

Value

Microsoft Graph

Azure AD Graph

Azure Key Vault

Azure AD entitlement management

Code library to interface to Azure AD B2C

Microsoft Authentication Library (MSAL)

Microsoft Azure Key Vault SDK

Azure Identity library

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Requirement	Value
API to access user properties	<div>Microsoft Graph Azure AD Graph Azure Key Vault Azure AD entitlement management</div>
Code library to interface to Azure AD B2C	<div>Microsoft Authentication Library (MSAL) Microsoft Azure Key Vault SDK Azure Identity library</div>

NEW QUESTION 160

- (Topic 8)  
You are developing a web application that uses Azure Cache for Redis. You anticipate that the cache will frequently fill and that you will need to evict keys. You must configure Azure Cache for Redis based on the following predicted usage pattern: A small subset of elements will be accessed much more often than the rest.  
You need to configure the Azure Cache for Redis to optimize performance for the predicted usage pattern.  
Which two eviction policies will achieve the goal?  
NOTE:Each correct selection is worth one point.

- A. noeviction
- B. allkeys-lru
- C. volatile-lru
- D. allkeys-random
- E. volatile-ttl
- F. volatile-random

Answer: BD

Explanation:

B: The allkeys-lru policy evict keys by trying to remove the less recently used (LRU) keys first, in order to make space for the new data added. Use the allkeys-lru policy when you expect a power-law distribution in the popularity of your requests, that is, you expect that a subset of elements will be accessed far more often than the rest.  
C: volatile-lru: evict keys by trying to remove the less recently used (LRU) keys first, but only among keys that have an expire set, in order to make space for the new data added.  
Note: The allkeys-lru policy is more memory efficient since there is no need to set an expire for the key to be evicted under memory pressure.  
Reference: <https://redis.io/topics/lru-cache>

NEW QUESTION 161

DRAG DROP - (Topic 8)  
You develop an Azure solution that uses Cosmos DB.  
The current Cosmos DB container must be replicated and must use a partition key that is optimized for queries.  
You need to implement a change feed processor solution.  
Which change feed processor components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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 the content.  
NOTE:Each correct selection is worth one point.

Components	Requirement	Component
Host	Store the data from which the change feed is generated.	Component
Delegate	Coordinate processing of the change feed across multiple workers.	Component
Lease container	Use the change feed processor to listen for changes.	Component
Monitored container	Handle each batch of changes.	Component

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: The monitored container  
The monitored container has the data from which the change feed is generated. Any inserts and updates to the monitored container are reflected in the change

feed of the container.

Box 2: The lease container

The lease container acts as a state storage and coordinates processing the change feed across multiple workers. The lease container can be stored in the same account as the monitored container or in a separate account.

Box 3: The host: A host is an application instance that uses the change feed processor to listen for changes. Multiple instances with the same lease configuration can run in parallel, but each instance should have a different instance name.

Box 4: The delegate

The delegate is the code that defines what you, the developer, want to do with each batch of changes that the change feed processor reads.

#### NEW QUESTION 163

- (Topic 8)

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: Run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Does the solution meet the goal?

A. Yes

B. No

**Answer: A**

#### Explanation:

Get an access token using the VM's system-assigned managed identity and use it to call Azure Resource Manager

You will need to use PowerShell in this portion.

? In the portal, navigate to Virtual Machines and go to your Windows virtual machine and in the Overview, click Connect.

? Enter in your Username and Password for which you added when you created the

Windows VM.

? Now that you have created a Remote Desktop Connection with the virtual machine, open PowerShell in the remote session.

? Using the Invoke-WebRequest cmdlet, make a request to the local managed identity for Azure resources endpoint to get an access token for Azure Resource Manager.

Example:

```
$response = Invoke-WebRequest -Uri 'http://169.254.169.254/metadata/identity/oauth2/token?api-version=2018-02-01&resource=https://management.azure.com/'  
-Method GET -Headers @{Metadata="true"}
```

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/tutorial-windows-vm-access-arm>

#### NEW QUESTION 164

- (Topic 8)

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 and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Update the app with a method named statuscheck to run the scripts. Update the app settings for the app. Set the WEBSITE\_SWAP\_WARMUP\_PING\_PATH and WEBSITE\_SWAP\_WARMUP\_PING\_STATUSES with a path to the new method and appropriate response codes.

Does the solution meet the goal?

A. Yes

B. No

**Answer: A**

#### Explanation:

These are valid warm-up behavior options, but are not helpful in fixing swap problems. Instead update the web.config file to include the applicationInitialization configuration

element. Specify custom initialization actions to run the scripts.

Note: Some apps might require custom warm-up actions before the swap. The

applicationInitialization configuration element in web.config lets you specify custom initialization actions. The swap operation waits for this custom warm-up to finish before swapping with the target slot. Here's a sample web.config fragment.

```
<system.webServer>  
<applicationInitialization>  
<add initializationPage="/" hostname="[app hostname]" />  
<add initializationPage="/Home/About" hostname="[app hostname]" />  
</applicationInitialization>  
</system.webServer>
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots#troubleshoot-swaps>

#### NEW QUESTION 168

DRAG DROP - (Topic 8)

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.



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

- A. Mastered  
B. Not Mastered

Answer: A

**Explanation:**

Box1: 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?

**NEW QUESTION 173**

HOTSPOT - (Topic 8)

A company is developing a mobile app for field service employees using Azure App Service Mobile Apps as the backend.

The company's network connectivity varies throughout the day. The solution must support offline use and synchronize changes in the background when the app is online app.

You need to implement the solution.

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.

```
var client = new MobileServiceClient("MOBILE_APP_URL");  
var store = new MobileServiceSQLiteStore  
(Constants.OfflineDbPath);  
store.DefineTable<TodoItem>();  
await client.SyncContext.IntitalizeAsync(store);
```

▼

var todoTable = client.GetSyncTable<TodoItem>();
var todoTable = client.GetTable<TodoItem>();
var todoTable = client.SyncTable;
var todoTable = client.Table;

```
await client.SyncContext.PushAsync();
```

▼

await todoTable.PullAsync("allTodoItems",todoTable.CreateQuery());
await todoTable.UpdateAsync();
todoTable.PullAsync("allTodoItems", todoTable.CreateQuery());
todoTable.UpdateAsync();

- A. Mastered  
B. Not Mastered

Answer: A

**Explanation:**

Box 1: var todoTable = client GetSyncTable<TodoItem>()

To setup offline access, when connecting to your mobile service, use the method GetSyncTable instead of GetTable (example):



IMobileServiceSyncTable todoTable = App.MobileService.GetSyncTable(); / Box 2: await todoTable.PullAsync("allTodoItems",todo.Table.CreateQuery());  
Your app should now use IMobileServiceSyncTable (instead of IMobileServiceTable) for  
CRUD operations. This will save changes to the local database and also keep a log of the changes. When the app is ready to synchronize its changes with the  
Mobile Service, use the methods PushAsync and PullAsync (example):  
await App.MobileService.SyncContext.PushAsync(); await todoTable.PullAsync();  
References:  
<https://azure.microsoft.com/es-es/blog/offline-sync-for-mobile-services/>

**NEW QUESTION 174**

HOTSPOT - (Topic 8)  
ASP.NET Core API app by using C#. The API app will allow users to authenticate by using Twitter and Azure Active Directory (Azure AD).  
Users must be authenticated before calling API methods. You must log the user's name for each method call.  
You need to configure the API method calls.  
Which values should you use? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

Code segment	Value
Attribute	<div><div></div><div>Authorize</div><div>AllowAnonymous</div><div>AutoValidateAntiforgeryToken</div></div>
Request Header	<div><div></div><div>X-MS-CLIENT-PRINCIPAL-NAME</div><div>Proxy-Authorization</div><div>X-Forwarded-For</div><div>X-MS-CLIENT-PRINCIPAL-ID</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: Authorize  
Box 2: X-MS-CLIENT-PRINCIPAL-NAME  
App Service passes user claims to your application by using special headers. External requests aren't allowed to set these headers, so they are present only if set by App Service. Some example headers include:  
X-MS-CLIENT-PRINCIPAL-NAME X-MS-CLIENT-PRINCIPAL-ID  
Here's the set of headers you get from Easy Auth for a Twitter authenticated user:  
{  
"cookie": "AppServiceAuthSession=Lx43...xHDTA==",  
"x-ms-client-principal-name": "evilSnobu", "x-ms-client-principal-id": "35....",  
"x-ms-client-principal-idp": "twitter",  
"x-ms-token-twitter-access-token": "35...Dj",  
"x-ms-token-twitter-access-token-secret": "OK3...Jx",  
}  
References:  
<https://docs.microsoft.com/en-us/azure/app-service/app-service-authentication-how-to>

**NEW QUESTION 177**

HOTSPOT - (Topic 8)  
You develop two Python scripts to process data.  
The Python scripts must be deployed to two, separate Linux containers running in an Azure Container Instance container group. The containers must access external data by using the Server Message Block (SMB) protocol. Containers in the container group must run only once  
You need to configure the Azure Container Instance.  
Which configuration value should you use? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

Answer Area

Configuration Setting	Configuration Value
External data volume	<div><div></div><div>Secret</div><div>Empty directory</div><div>Cloned git repo</div><div>Azure file share</div></div>
Container restart policy	<div><div></div><div>Never</div><div>Always</div><div>OnFailure</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Configuration Setting	Configuration Value
External data volume	<div><div></div><div>Secret</div><div>Empty directory</div><div>Cloned git repo</div><div>Azure file share</div></div>
Container restart policy	<div><div></div><div>Never</div><div>Always</div><div>OnFailure</div></div>

NEW QUESTION 179

- (Topic 8)  
You are designing a web application to manage user satisfaction surveys. The number of questions that a survey includes is variable. Application users must be able to display results for a survey as quickly as possible. Users must also be able to quickly compute statistical measures including average values across various groupings of answers. Which Azure Cosmos DB API should you use for the application?

- A. Core
- B. Mongo DB
- C. Gremlin
- D. Table API

Answer: D

NEW QUESTION 184

DRAG DROP - (Topic 8)  
You are developing an Azure-hosted application that must use an on-premises hardware security module (HSM) key. The key must be transferred to your existing Azure Key Vault by using the Bring Your Own Key (BYOK) process. You need to securely transfer the key to Azure Key Vault. Which four 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.

**Actions**

Generate a key transfer blob file by using the HSM vendor-provided tool.

Generate a Key Exchange Key (KEK).

Create a custom policy definition in Azure Policy.

Run the `az keyvault key import` command.

Run the `az keyvault key restore` command.

Retrieve the Key Exchange Key (KEK) public key.

**Answer Area**

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

To perform a key transfer, a user performs following steps:

? Generate KEK.

? Retrieve the public key of the KEK.

? Using HSM vendor provided BYOK tool - Import the KEK into the target HSM and exports the Target Key protected by the KEK.

? Import the protected Target Key to Azure Key Vault.

Step 1: Generate a Key Exchange Key (KEK).

Step 2: Retrieve the Key Exchange Key (KEK) public key.

Step 3: Generate a key transfer blob file by using the HSM vendor-provided tool. Generate key transfer blob using HSM vendor provided BYOK tool

Step 4: Run the `az keyvault key import` command Upload key transfer blob to import HSM-key.

Customer will transfer the Key Transfer Blob (".byok" file) to an online workstation and then run a `az keyvault key import` command to import this blob as a new HSM-backed key into Key Vault.

To import an RSA key use this command: `az keyvault key import`

**NEW QUESTION 188**

- (Topic 8)

You are developing a medical records document management website. The website is used to store scanned copies of patient intake forms. If the stored intake forms are downloaded from storage by a third party, the content of the forms must not be compromised.

You need to store the intake forms according to the requirements. Solution:

? uk.co.certification.simulator.questionpool.PList@2ffbc4e0 Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 193**

- (Topic 8)

You are developing a project management service by using ASP.NET. The service hosts conversations, files, to-do lists, and a calendar that users can interact with at any time.

The application uses Azure Search for allowing users to search for keywords in the project data.

You need to implement code that creates the object which is used to create indexes in the Azure Search service.

Which two objects should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. SearchService
- B. SearchIndexClient
- C. SearchServiceClient
- D. SearchCredentials

**Answer:** BC

**Explanation:**

The various client libraries define classes like Index, Field, and Document, as well as operations like Indexes.Create and Documents.Search on the SearchServiceClient and SearchIndexClient classes.

Example:

The sample application we'll be exploring creates a new index named "hotels", populates it with a few documents, then executes some search queries. Here is the main program, showing the overall flow:

/ This sample shows how to delete, create, upload documents and query an index static void Main(string[] args)

```
{
    IConfigurationBuilder builder = new ConfigurationBuilder().AddJsonFile("appsettings.json"); IConfigurationRoot configuration = builder.Build();
    SearchServiceClient serviceClient = CreateSearchServiceClient(configuration); Console.WriteLine("{0}", "Deleting index...\n");
    DeleteHotelsIndexIfExists(serviceClient);
    Console.WriteLine("{0}", "Creating index...\n"); CreateHotelsIndex(serviceClient);
    ISearchIndexClient indexClient = serviceClient.Indexes.GetClient("hotels");
    References:
    https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk
```

**NEW QUESTION 196**

- (Topic 8)

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 question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Margie’s Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution.

You create the index in Azure Search.

You need to import the restaurant data into the Azure Search service by using the Azure Search .NET SDK.

- Solution:
- \* 1. Create a SearchServiceClient object to connect to the search index.
  - \* 2. Create a DataContainer that contains the documents which must be added.
  - \* 3. Create a DataSource instance and set its Container property to the DataContainer.
  - \* 4. Set the DataSources property of the SearchServiceClient.

Does the solution meet the goal?

A. Yes

B. No

**Answer: B**

**Explanation:**

Use the following method:

- \* 1.- Create a SearchIndexClient object to connect to the search index
- \* 2.- Create an IndexBatch that contains the documents which must be added.
- \* 3.- Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

References:

<https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk>

**NEW QUESTION 200**

HOTSPOT - (Topic 8)

You have an Azure Batch project that processes and converts files and stores the files in Azure storage. You are developing a function to start the batch job.

You add the following parameters to the function.

Parameter name	Description
fileTasks	a list of tasks to be run
jobId	the identifier that must be assigned to the job
outputContainerSasUrl	a storage SAS URL to store successfully converted files
failedContainerSasUrl	a storage SAS URL to store copies of files that failed to convert.

You must ensure that converted files are placed in the container referenced by the outputContainerSasUrl parameter. Files which fail to convert are places in the container referenced by the failedContainerSasUrl parameter.

You need to ensure the files are correctly processed.

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 List<CloudTasks> StartTasks(List<FileTask> fileTasks, string jobId,
    string outputContainerSasUrl, string failedContainersSasUrl)
{
    BatchSharedKeyCredentials sharedKeyCredentials =
        new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName,
batchAccountKey);
    List<CloudTask> tasks = new List<CloudTask>();
    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
    {
        CloudJob = batchClient.JobOperations.

▼
            

GetJob  

                GetTask  

                EnableJob  

                CreateJob

 ();

        job.Id = jobId,
        job.PoolInformation = new PoolInformation { PoolId = poolId };
        job.Commit();
        fileTasks.ForEach((fileTask) =>
        {
            string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
            CloudTask task = new CloudTask (taskId, fileTask.Command);
            List<OutputFile> outputFileList = new List<OutputFile>();
            OutputFileBlobContainerDestination outputContainer =
                new OutputFileBlobContainerDestination(outputContainerSasUrl);
            OutputFileBlobContainerDestination failedContainer =
                new OutputFileBlobContainerDestination (failedContainersSasUrl);
            outputFileList.Add(new OutputFile(fileTask.Output,
                new OutputFileDestination(outputContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition.

▼
                    

TaskSuccess  

                        TaskFailure  

                        TaskCompletion

 ));

            outputFileList.Add(new OutputFile(fileTask.Output,
                new OutputFileDestination(failedContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition.

▼
                    

TaskSuccess  

                        TaskFailure  

                        TaskCompletion

 ));

            task.

▼
                

OutputFiles  

                    FilesToStage  

                    ResourceFiles  

                    StageFiles

 =outputFileList;

            task.Add(task);
        });
    }
    return tasks,
}
```

- A. Mastered  
 B. Not Mastered

**Answer: A**

### Explanation:

Box 1: CreateJob

Box 2: TaskSuccess

TaskSuccess: Upload the file(s) only after the task process exits with an exit code of 0.

Incorrect: TaskCompletion: Upload the file(s) after the task process exits, no matter what the exit code was.

Box 3: TaskFailure

TaskFailure: Upload the file(s) only after the task process exits with a nonzero exit code.

Box 4: OutputFiles

To specify output files for a task, create a collection of OutputFile objects and assign it to the CloudTask.OutputFiles property when you create the task.

References: <https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.batch.protocol.models.outputfileuploadcondition>

<https://docs.microsoft.com/en-us/azure/batch/batch-task-output-files>

### NEW QUESTION 202

- (Topic 8)

You manage a data processing application that receives requests from an Azure Storage queue.

You need to manage access to the queue. You have the following requirements:

? Provide other applications access to the Azure queue.

? Ensure that you can revoke access to the queue without having to regenerate the storage account keys.

? Specify access at the queue level and not at the storage account level.

Which type of shared access signature (SAS) should you use?

- A. Service SAS with a stored access policy  
 B. Account SAS  
 C. User Delegation SAS  
 D. Service SAS with ad hoc SAS

**Answer:** A

**Explanation:**

A service SAS is secured with the storage account key. A service SAS delegates access to a resource in only one of the Azure Storage services: Blob storage, Queue storage, Table storage, or Azure Files.

Stored access policies give you the option to revoke permissions for a service SAS without having to regenerate the storage account keys.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

**NEW QUESTION 204**

- (Topic 8)

You are building a web application that uses the Microsoft identity platform for user

authentication. You are implementing user identification for the web application. You need to retrieve a claim to uniquely identify a user. Which claim type should you use?

- A. oid
- B. aud
- C. idp
- D. nonce

**Answer:** A

**NEW QUESTION 205**

HOTSPOT - (Topic 8)

You are developing an Azure Durable Function based application that processes a list of input values. The application is monitored using a console application that retrieves JSON data from an Azure Function diagnostic endpoint.

During processing a single instance of invalid input does not cause the function to fail. Invalid input must be available to the monitoring application.

You need to implement the Azure Durable Function and the monitoring console application. How should you complete the code segments? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



## Answer Area

```
[FunctionName("App")]
public static async Task<List<string>> RunOrchestrator(
    [OrchestrationTrigger] IDurableOrchestrationContext context) {
    EntityId[] input = . . .
    int errIndex = . . .

    await context.CallEntityAsync(input[errIndex], "error");
    context.SetOutput(input[errIndex]);
    context.SetCustomStatus(input[errIndex]);
    context.SignalEntity(input[errIndex], "error");
    await context.CallEntityAsync(input[errIndex], "error");
}

using (var client = new HttpClient())
{
    while (true)
    {
        var response = await client.GetAsync(". . .");
        response.EnsureSuccessStatusCode();
        var json = await response.Content.ReadAsStringAsync();
        dynamic result = JsonConvert.DeserializeObject(json);
        if (result.runtimeStatus == "Failed")
        {
            // ...
        }
    }
}
```

### NEW QUESTION 206

- (Topic 8)

You are developing an Azure Cosmos DB solution by using the Azure Cosmos DB SQL API. The data includes millions of documents. Each document may contain hundreds of properties.

The properties of the documents do not contain distinct values for partitioning. Azure Cosmos DB must scale individual containers in the database to meet the performance needs of the application by spreading the workload evenly across all partitions over time.

You need to select a partition key.

Which two partition keys can you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. a concatenation of multiple property values with a random suffix appended
- B. a single property value that does not appear frequently in the documents
- C. a hash suffix appended to a property value
- D. a value containing the collection name
- E. a single property value that appears frequently in the documents

**Answer:** AC

#### Explanation:

You can form a partition key by concatenating multiple property values into a single artificial partitionKey property. These keys are referred to as synthetic keys. Another possible strategy to distribute the workload more evenly is to append a random number at the end of the partition key value. When you distribute items in this way, you can perform parallel write operations across partitions.

Note: It's the best practice to have a partition key with many distinct values, such as hundreds or thousands. The goal is to distribute your data and workload evenly across the items associated with these partition key values. If such a property doesn't exist in your data, you can construct a synthetic partition key.

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/synthetic-partition-keys>

### NEW QUESTION 210

- (Topic 8)

You are writing code to create and run an Azure Batch job. You have created a pool of compute nodes.

You need to choose the right class and its method to submit a batch job to the Batch service.

Which method should you use?

- A. JobOperations.CreateJobO
- B. CloudJob.Enable(IEnumerable<BatchClientBehavior>)
- C. CloudJob.CommitAsync(IEnumerable<BatchClientBehavior>, CancellationToken)
- D. JobOperations.EnableJob(String, IEnumerable<BatchClientBehavior>)
- E. JobOperations.EnableJobAsync(Strin
- F. IEnumerable<BatchClientBehavior>. CancellationToken)

**Answer:** C

#### Explanation:

A Batch job is a logical grouping of one or more tasks. A job includes settings common to the tasks, such as priority and the pool to run tasks on. The app uses the BatchClient.JobOperations.CreateJob method to create a job on your pool.

The Commit method submits the job to the Batch service. Initially the job has no tasks.

```
{
    CloudJob job = batchClient.JobOperations.CreateJob(); job.Id = JobId;
    job.PoolInformation = new PoolInformation { PoolId = PoolId };
    job.Commit();
}
```

References:

<https://docs.microsoft.com/en-us/azure/batch/quick-run-dotnet>

#### NEW QUESTION 215

HOTSPOT - (Topic 8)

A software as a service (SaaS) company provides document management services. The company has a service that consists of several Azure web apps. All Azure web apps run in an Azure App Service Plan named PrimaryASP.

You are developing a new web service by using a web app named ExcelParser. The web app contains a third-party library for processing Microsoft Excel files. The license for the third-party library stipulates that you can only run a single instance of the library.

You need to configure the service.

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

NOTE:Each correct selection is worth one point.

#### Answer Area

```
Set-AzAppServicePlan `
  -ResourceGroupName $rg `
  -Name "PrimaryASP" `
```

▼

NumberOfSites 1  
PerSiteScaling \$true  
TargetWorkerCount = 1  
MaxNumberOfWorkers = 1  
SiteConfig.NumberOfWorkers = 1

```
$app = Get-AzWebApp `
  -ResourceGroupName $rg `
  -Name "ExcelParser"
```

```
$app.
```

▼

NumberOfSites 1  
PerSiteScaling \$true  
TargetWorkerCount = 1  
MaxNumberOfWorkers = 1  
SiteConfig.NumberOfWorkers = 1

```
Set-AzWebApp $app
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

## Answer Area

```
Set-AzAppServicePlan `
  -ResourceGroupName $rg `
  -Name "PrimaryASP" `
```

▼

NumberOfSites 1  
 PerSiteScaling \$true  
 TargetWorkerCount = 1  
 MaxNumberOfWorkers = 1  
 SiteConfig.NumberOfWorkers = 1

```
$app = Get-AzWebApp `
  -ResourceGroupName $rg `
  -Name "ExcelParser"
```

```
$app.
```

▼

NumberOfSites 1  
 PerSiteScaling \$true  
 TargetWorkerCount = 1  
 MaxNumberOfWorkers = 1  
 SiteConfig.NumberOfWorkers = 1

```
Set-AzWebApp $app
```

### NEW QUESTION 219

- (Topic 8)

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 the Reader role-based access control (RBAC) role 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-access-arm>

### NEW QUESTION 223

- (Topic 8)

You are developing a complex workflow by using Azure Durable Functions.

During testing you observe that the results of the workflow differ based on how many instances of the Azure Function are running.

You need to resolve the issue. What should you do?

- A. Ensure that all Orchestrator code is deterministic.
- B. Read all state data from the durable function context
- C. Configure the Azure Orchestration function to run on an App Service Plan with one instance.
- D. Implement the monitor pattern within the workflow.

**Answer: A**

### NEW QUESTION 226

DRAG DROP - (Topic 8)

You must ensure that the external party cannot access the data in the SSN column of the Person table.

Will each protection method meet the requirement? To answer, drag the appropriate responses to the correct protection methods. Each response maybe 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.



Responses	Protection method	Response
<input type="checkbox"/> Yes	Enable AlwaysOn encryption.	<input type="checkbox"/>
<input type="checkbox"/> No	Set the column encryption setting to disabled.	<input type="checkbox"/>
	Assign users to the Public fixed database role.	<input type="checkbox"/>
	Store column encryption keys in the system catalog view in the database.	<input type="checkbox"/>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

You can configure Always Encrypted for individual database columns containing your sensitive data. When setting up encryption for a column, you specify the information about the encryption algorithm and cryptographic keys used to protect the data in the column.

Box 2: No

Box 3: Yes

In SQL Database, the VIEW permissions are not granted by default to the public fixed database role. This enables certain existing, legacy tools (using older versions of DacFx) to work properly. Consequently, to work with encrypted columns (even if not decrypting them) a database administrator must explicitly grant the two VIEW permissions.

Box 4: No

All cryptographic keys are stored in an Azure Key Vault.

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine>

**NEW QUESTION 229**

HOTSPOT - (Topic 7)

You need to Implement the retail store location Azure Function.

How should you configure the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Configuration	Value
Binding	<div>Blob storage Azure Cosmos DB Event Grid HTTP</div>
Binding Direction	<div>Input Output</div>
Trigger	<div>Blob storage Azure Cosmos DB Event Grid HTTP</div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Scenario: Retail store locations: Azure Functions must process data immediately when data is uploaded to Blob storage.

Box 1: HTTP

Binding configuration example: `https://<storage_account_name>.blob.core.windows.net`

Box 2: Input

Read blob storage data in a function: Input binding

Box 3: Blob storage

The Blob storage trigger starts a function when a new or updated blob is detected. Azure Functions integrates with Azure Storage via triggers and bindings. Integrating with

Blob storage allows you to build functions that react to changes in blob data as well as read and write values.

**NEW QUESTION 234**

- (Topic 7)

You need to grant access to the retail store location data for the inventory service development effort. What should you use?

- A. Azure AD access token  
B. Azure RBAC role  
C. Azure AD ID token

- D. Shared access signature (SAS) token
- E. Azure AD refresh token

Answer: D

NEW QUESTION 237

HOTSPOT - (Topic 7)

You need to implement the corporate website. How should you configure the solution?

Azure

Plan

Service

Configuration

Free

Standard

Premium

Isolated

App Service Web App

App Service Static Web App

Azure Function App

Azure Blob Storage

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure

Plan

Service

Configuration

Free

Standard

Premium

Isolated

App Service Web App

App Service Static Web App

Azure Function App

Azure Blob Storage

NEW QUESTION 242

HOTSPOT - (Topic 7)

You need to implement event routing for retail store location data.  
Which configuration should you use?

Event data	Configuration
Source	<div><div></div><div>Azure Blob Storage Azure Event Grid Azure Service Bus Azure Event Hub</div></div>
Receiver	<div><div></div><div>Azure Event Grid Azure Event Hub Azure Service Bus Azure Blob Storage</div></div>
Handler	<div><div></div><div>Azure Function App Azure Logic App Azure Event Grid Azure Blob Storage</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Event data	Configuration
Source	<div><div></div><div>Azure Blob Storage Azure Event Grid Azure Service Bus Azure Event Hub</div></div>
Receiver	<div><div></div><div>Azure Event Grid Azure Event Hub Azure Service Bus Azure Blob Storage</div></div>
Handler	<div><div></div><div>Azure Function App Azure Logic App Azure Event Grid Azure Blob Storage</div></div>

NEW QUESTION 244

- (Topic 7)

You need to audit the retail store sales transactions.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE:Each correct selection is worth one point.

- A. Update the retail store location data upload process to include blob index tag
- B. Create an Azure Function to process the blob index tags and filter by store location
- C. Enable blob versioning for the storage account
- D. Use an Azure Function to process a list of the blob versions per day.
- E. Process an Azure Storage blob inventory report by using an Azure Function
- F. Create rule filters on the blob inventory report,
- G. Subscribe to blob storage events by using an Azure Function and Azure Event Grid
- H. Filter the events by store location.
- I. Process the change feed logs of the Azure Blob storage account by using an Azure Function
- J. Specify a time range for the change feed data.

Answer: DE

Explanation:

Scenario: Audit store sale transaction information nightly to validate data, process sales financials, and reconcile inventory.



"Process the change feed logs of the Azure Blob storage account by using an Azure Function. Specify a time range for the change feed data": Change feed support is well- suited for scenarios that process data based on objects that have changed. For example, applications can: Store, audit, and analyze changes to your objects, over any period of time, for security, compliance or intelligence for enterprise data management.

"Subscribe to blob storage events by using an Azure Function and Azure Event Grid. Filter the events by store location": Azure Storage events allow applications to react to events, such as the creation and deletion of blobs. It does so without the need for complicated code or expensive and inefficient polling services. The best part is you only pay for what you use.

Blob storage events are pushed using Azure Event Grid to subscribers such as Azure Functions, Azure Logic Apps, or even to your own http listener. Event Grid provides reliable event delivery to your applications through rich retry policies and dead-lettering.

Reference:  
<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-change-feed> <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-event-overview>

**NEW QUESTION 249**

DRAG DROP - (Topic 6)

You need to deploy a new version of the LabelMaker application to ACR.  
Which three 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.

Actions

Log in to the registry and push image.

Create an alias of the image with a new build number.

Create an alias of the image with the fully qualified path to the registry.

Download the image to your local computer.

Build a new application image by using dockerfile.

Answer Area

⏪

⏩

⏴

⏵

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Step 1: Build a new application image by using dockerfile  
Step 2: Create an alias if the image with the fully qualified path to the registry  
Before you can push the image to a private registry, you've to ensure a proper image name. This can be achieved using the docker tag command. For demonstration purpose, we'll use Docker's hello world image, rename it and push it to ACR.  
# pulls hello-world from the public docker hub  
\$ docker pull hello-world  
# tag the image in order to be able to push it to a private registry  
\$ docker tag hello-word <REGISTRY\_NAME>/hello-world  
# push the image  
\$ docker push <REGISTRY\_NAME>/hello-world  
Step 3: Log in to the registry and push image  
In order to push images to the newly created ACR instance, you need to login to ACR form the Docker CLI. Once logged in, you can push any existing docker image to your ACR instance.

Scenario:  
Coho Winery plans to move the application to Azure and continue to support label creation. LabelMaker app  
Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS).  
You must use Azure Container Registry to publish images that support the AKS deployment.

**NEW QUESTION 254**

HOTSPOT - (Topic 6)

You need to retrieve all order line items from Order.json and sort the data alphabetically by the city.  
How should you complete the code? To answer, select the appropriate options in the answer area.  
NOTE:Each correct selection is worth one point.

SELECT li.id AS lineitemid, li.price

FROM 

Orders o

LineItems li

JOIN 

li

o

 IN 

o.line\_items

li.line\_items

o.address

ORDER BY 

o.address.city

li.address.city

o.city

li.city

 ASC

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Box 1: orders o  
Scenario: Order data is stored as nonrelational JSON and must be queried using SQL. Box 2:li  
Box 3: o.line\_items  
Box 4: o.city  
The city field is in Order, not in the 2s.

**NEW QUESTION 258**  
HOTSPOT - (Topic 6)  
You need to configure Azure Cosmos DB.  
Which settings should you use? To answer, select the appropriate options in the answer area.  
NOTE:Each correct selection is worth one point.

Setting	Value
Consistency Level	<div>Strong</div> <div>Bounded-staleness</div> <div>Session</div> <div>Eventual</div>
API	<div>SQL</div> <div>MongoDB</div> <div>Graph</div> <div>Table</div>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Graphical user interface, application, table Description automatically generated  
Box 1: Strong  
When the consistency level is set to strong, the staleness window is equivalent to zero, and the clients are guaranteed to read the latest committed value of the write operation. Scenario: Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.

Note: You can choose from five well-defined models on the consistency spectrum. From strongest to weakest, the models are: Strong, Bounded staleness, Session, Consistent prefix, Eventual

Box 2: SQL

Scenario: You identify the following requirements for data management and manipulation: Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).

#### NEW QUESTION 261

- (Topic 5)

You need to resolve the log capacity issue. What should you do?

- A. Create an Application Insights Telemetry Filter
- B. Change the minimum log level in the host.json file for the function
- C. Implement Application Insights Sampling
- D. Set a LogCategoryFilter during startup

**Answer: C**

#### Explanation:

Scenario, the log capacity issue: Developers report that the number of log message in the trace output for the processor is too high, resulting in lost log messages. Sampling is a feature in Azure Application Insights. It is the recommended way to reduce telemetry traffic and storage, while preserving a statistically correct analysis of application data. The filter selects items that are related, so that you can navigate between items when you are doing diagnostic investigations. When metric counts are presented to you in the portal, they are renormalized to take account of the sampling, to minimize any effect on the statistics.

Sampling reduces traffic and data costs, and helps you avoid throttling. Reference:

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

#### NEW QUESTION 263

- (Topic 5)

You need to resolve the capacity issue. What should you do?

- A. Convert the trigger on the Azure Function to an Azure Blob storage trigger
- B. Ensure that the consumption plan is configured correctly to allow scaling
- C. Move the Azure Function to a dedicated App Service Plan
- D. Update the loop starting on line PC09 to process items in parallel

**Answer: D**

#### Explanation:

If you want to read the files in parallel, you cannot use `foreach`. Each of the `async` callback function calls does return a promise. You can `await` the array of promises that you'll get with `Promise.all`.

Scenario: Capacity issue: During busy periods, employees report long delays between the time they upload the receipt and when it appears in the web application.

```
PC08     var container = await GetCloudBlobContainer();
PC09     foreach (var fileItem in await ListFiles())
PC10     {
PC11         var file = new CloudFile(fileItem.StorageUri.PrimaryUri);
PC12         var ms = new MemoryStream();
PC13         await file.DownloadToStreamAsync(ms);
PC14         var blob = container.GetBlockBlobReference(fileItem.Uri.ToString());
PC15         await blob.UploadFromStreamAsync(ms);
PC16
PC17     }
```

Reference:

<https://stackoverflow.com/questions/37576685/using-async-await-with-a-foreach-loop>

#### NEW QUESTION 264

HOTSPOT - (Topic 4)

You need to implement the Log policy.

How should you complete the `EnsureLogging` method in `EventGridController.cs`? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



```
var client = new WebSiteManagementClient(. . .);
var id = ParseResourceID(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
        {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS("
        logs
        logdrop
        ")}},

        {"DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", "
        15
        30
        "}

});
client.WebApps.
    UploadLoggingSettings
    UpdateApplicationSetting

id.resourceGroup,
id.name, appSettings);
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: logdrop  
All log files should be saved to a container named logdrop.  
Box 2: 15  
Logs must remain in the container for 15 days.  
Box 3: UpdateApplicationSettings  
All Azure App Service Web Apps must write logs to Azure Blob storage.

NEW QUESTION 267

DRAG DROP - (Topic 4)  
You need to add code at line EG15 in EventGridController.cs to ensure that the Log 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"
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario, Log policy: All Azure App Service Web Apps must write logs to Azure Blob storage.  
Box 1: Status  
Box 2: Succeeded  
Box 3: operationName  
Microsoft.Web/sites/write is resource provider operation. It creates a new Web App or updates an existing one.

NEW QUESTION 268

- (Topic 3)  
You need to correct the RequestUserApproval Function app error. What should you do?

- A. Update line RA13 to use theasynckeyword and return an HttpRequest object value.
- B. Configure the Function app to use an App Service hosting pla
- C. Enable theAlways Onsetting of the hosting plan.
- D. Update the function to be stateful by using Durable Functions to process the request payload.
- E. Update the functionTimeout property of the host.json project file to 15 minutes.

Answer: C

**Explanation:**

Async operation tracking

The HTTP response mentioned previously is designed to help implement long-running HTTP async APIs with Durable Functions. This pattern is sometimes referred to as the polling consumer pattern.

Both the client and server implementations of this pattern are built into the Durable Functions HTTP APIs.

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"

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-http-features>

**NEW QUESTION 269**

HOTSPOT - (Topic 3)

You need to retrieve the database connection string.

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

NOTE:Each correct selection is worth one point.

REST API Endpoint:

https://  /

Variable type to access Azure Key Vault secret values:

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Azure database connection string retrieve REST API vault.azure.net/secrets/ Box 1: cpandlkeyvault

We specify the key vault, cpandlkeyvault.

Scenario: The database connection string is stored in Azure Key Vault with the following attributes:

Azure Key Vault name: cpandlkeyvault Secret name: PostgreSQLConn

Id: 80df3e46ffcd4f1cb187f79905e9a1e8

Box 2: PostgreSQLConn

We specify the secret, PostgreSQLConn

Example, sample request: <https://myvault.vault.azure.net/secrets/mysecretname/4387e9f3d6e14c459867679a90fd0f79?api-version=7.1>

Box 3: Querystring

**NEW QUESTION 272**

HOTSPOT - (Topic 3)

You need to configure the Account Kind, Replication, and Storage tier options for the corporate website's Azure Storage account.

How should you complete the configuration? To answer, select the appropriate options in the dialog box in the answer area.

NOTE:Each correct selection is worth one point.

## Create storage account



Basics Advanced Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more](#)

### PROJECT DETAILS

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

\* Subscription

\* Resource group

[Create new](#)

### INSTANCE DETAILS

The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. [Choose classic deployment model](#)

\* Storage account name

\* Location

Performance ☒ Standard ☐ Premium

Account kind   
 Storage (general purpose v1)  
 BlobStorage

Replication   
 Zone-redundant storage (ZRS)  
 Geo-redundant storage (GRS)  
 Read-access geo-redundant storage (RA-GRS)  
 Geo-zone-redundant storage (GZRS)  
 Read-access geo-zone-redundant storage (RA-GZRS)

Access tier (default) ☐ Cool ☐ Hot

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Account Kind: StorageV2 (general-purpose v2)

Scenario: Azure Storage blob will be used (refer to the exhibit). Data storage costs must be minimized.

General-purpose v2 accounts: Basic storage account type for blobs, files, queues, and tables. Recommended for most scenarios using Azure Storage.

### NEW QUESTION 277

- (Topic 2)

You need to investigate the http server log output to resolve the issue with the ContentUploadService.

Which command should you use first?

- A. az webapp log
- B. az ams live-output
- C. az monitor activity-log
- D. az container attach

Answer: C

#### Explanation:

Scenario: Users of the ContentUploadService report that they occasionally see HTTP 502 responses on specific pages.

"502 bad gateway" and "503 service unavailable" are common errors in your app hosted in Azure App Service.

Microsoft Azure publicizes each time there is a service interruption or performance degradation.

The az monitor activity-log command manages activity logs.

Note: Troubleshooting can be divided into three distinct tasks, in sequential order:

? Observe and monitor application behavior

? Collect data

? Mitigate the issue

Reference:

<https://docs.microsoft.com/en-us/cli/azure/monitor/activity-log>



NEW QUESTION 281

HOTSPOT - (Topic 2)

You need to implement the bindings for the CheckUserContent function.

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.

```
public static class CheckUserContent
{
    [FunctionName ("CheckUserContent")]
    public static void Run(
        string content,
        Stream output)
    {
        ...
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: [BlobTrigger(..)]

Box 2: [Blob(..)]

Azure Blob storage output binding for Azure Functions. The output binding allows you to modify and delete blob storage data in an Azure Function.

The attribute's constructor takes the path to the blob and a FileAccess parameter indicating read or write, as shown in the following example:

```
[FunctionName("ResizeImage")] public static void Run(
[BlobTrigger("sample-images/{name}")] Stream image,
[Blob("sample-images-md/{name}", FileAccess.Write)] Stream imageSmall)
{
}
```

Scenario: You must create an Azure Function named CheckUserContent to perform the content checks.

The company's data science group built ContentAnalysisService which accepts user generated content as a string and returns a probable value for inappropriate content. Any values over a specific threshold must be reviewed by an employee of Contoso, Ltd.

NEW QUESTION 284

HOTSPOT - (Topic 1)

You need to correct the VM issues.

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

NOTE:Each correct selection is worth one point.

Issue	Tool
Backup and Restore	<div><div></div><div>Azure Site Recovery</div><div>Azure Backup</div><div>Azure Data Box</div><div>Azure Migrate</div></div>
Performance	<div><div></div><div>Azure Network Watcher</div><div>Azure Traffic Manager</div><div>ExpressRoute</div><div>Accelerated Networking</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Backup and Restore: Azure Backup

Scenario: The VM is critical and has not been backed up in the past. The VM must enable a quick restore from a 7-day snapshot to include in-place restore of disks in case of failure.

In-Place restore of disks in IaaS VMs is a feature of Azure Backup. Performance: Accelerated Networking

Scenario: The VM shows high network latency, jitter, and high CPU utilization.

Accelerated networking enables single root I/O virtualization (SR-IOV) to a VM, greatly improving its networking performance. This high-performance path bypasses the host from the datapath, reducing latency, jitter, and CPU utilization, for use with the most demanding network workloads on supported VM types.

References:

<https://azure.microsoft.com/en-us/blog/an-easy-way-to-bring-back-your-azure-vm-with-in-place-restore/>

NEW QUESTION 286

- (Topic 1)

You need to migrate on-premises shipping data to Azure.

What should you use?

- A. Azure Migrate
- B. Azure Cosmos DB Data Migration tool (dt.exe)
- C. AzCopy
- D. Azure Database Migration service

Answer: D

Explanation:

Migrate from on-premises or cloud implementations of MongoDB to Azure Cosmos DB with minimal downtime by using Azure Database Migration Service.

Perform resilient migrations of MongoDB data at scale and with high reliability.

Scenario: Data migration from on-premises to Azure must minimize costs and downtime. The application uses MongoDB JSON document storage database for all container and transport information.

References:

<https://azure.microsoft.com/en-us/updates/mongodb-to-azure-cosmos-db-online-and-offline-migrations-are-now-available/>

NEW QUESTION 291

HOTSPOT - (Topic 1)

You need to configure Azure App Service to support the REST API requirements.

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

NOTE: Each correct selection is worth one point.

Setting	Value
Plan	<div><div></div><div>Basic</div><div>Standard</div><div>Premium</div><div>Isolated</div></div>
Instance Count	<div><div></div><div>1</div><div>10</div><div>20</div><div>100</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Plan: Standard  
Standard support auto-scaling  
Instance Count: 10  
Max instances for standard is 10.  
Scenario:  
The REST API's that support the solution must meet the following requirements:  
? Allow deployment to a testing location within Azure while not incurring additional costs.  
? Automatically scale to double capacity during peak shipping times while not causing application downtime.  
? Minimize costs when selecting an Azure payment model.  
References:  
<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

NEW QUESTION 292

.....



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