



Microsoft

Exam Questions AZ-204

Developing Solutions for Microsoft Azure (beta)

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NEW QUESTION 1

- (Exam 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>

NEW QUESTION 2

- (Exam Topic 1)

You need to update the APIs to resolve the testing error.

How should you complete the Azure CLI command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Enable Cross-Origin Resource Sharing (CORS) on your Azure App Service Web App.

Enter the full URL of the site you want to allow to access your WEB API or * to allow all domains. Box 1: cors

Box 2: add

Box 3: allowed-origins

Box 4: <http://testwideworldimporters.com/> References:

<http://donovanbrown.com/post/How-to-clear-No-Access-Control-Allow-Origin-header-error-with-Azure-App-Service>

NEW QUESTION 3

- (Exam Topic 3)

You are developing an Azure Function App by using Visual Studio. The app will process orders input by an Azure Web App. The web app places the order information into Azure Queue Storage.

You need to review the Azure Function App code shown below. NOTE: Each correct selection is worth one point.

```
public static class OrderProcessor
{
    [FunctionName("ProcessOrders")]
    public static void ProcessOrders([QueueTrigger("incoming-orders")]CloudQueueMessage myQueueItem, [Table("Orders")]ITable<Order> tableBindings,
    TraceWriter log)
    {
        log.Info($"Processing Order: {myQueueItem.Id}");
        log.Info($"Queue Insertion Time: {myQueueItem.InsertionTime}");
        log.Info($"Queue Expiration Time: {myQueueItem.ExpirationTime}");
        tableBindings.Add(new Order().DeserializeObject<Order>(myQueueItem.AsString));
    }
    [FunctionName("ProcessOrders-Poison")]
    public static void ProcessFailedOrders([QueueTrigger("incoming-orders-poison")]CloudQueueMessage myQueueItem, TraceWriter log)
    {
        log.Error($"Failed to process order: {myQueueItem.AsString}");
    }
}
```

Yes No

- The code will log the time that the order was processed from the queue. Yes No
- When the ProcessOrders function fails, the function will retry up to five times for a given order, including the first try. Yes No
- When there are multiple orders in the queue, a batch of orders will be retrieved from the queue and the ProcessOrders function will run multiple instances concurrently to process the orders. Yes No
- The ProcessOrders function will output the order to an Orders table in Azure Table Storage. Yes No

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: No

ExpirationTime - The time that the message expires. InsertionTime - The time that the message was added to the queue.

Box 2: Yes

maxDequeueCount - The number of times to try processing a message before moving it to the poison queue.

Default value is 5.

Box 3: Yes

When there are multiple queue messages waiting, the queue trigger retrieves a batch of messages and invokes function instances concurrently to process them.

By default, the batch size is 16. When the number being processed gets down to 8, the runtime gets another batch and starts processing those messages. So the maximum number of concurrent messages being processed per function on one virtual machine (VM) is 24.

Box 4: Yes References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-queue>

NEW QUESTION 4

- (Exam Topic 3)

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.

You are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level. You need to configure authorization.

Solution: Configure the Azure Web App for the website to allow only authenticated requests and require Azure AD log on.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead in the Azure AD application's manifest, set value of the groupMembershipClaims option to All. References:

<https://blogs.msdn.microsoft.com/waws/2017/03/13/azure-app-service-authentication-aad-groups/>

NEW QUESTION 5

- (Exam Topic 3)

A company is developing a Java web app. The web app code is hosted in a GitHub repository located at <https://github.com/Contoso/webapp>.

The web app must be evaluated before it is moved to production. You must deploy the initial code release to a deployment slot named staging.

You need to create the web app and deploy the code.

How should you complete the commands? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
gitrepo=https://github.com/Contoso/webapp
webappname=businesswebapp
resourcegroupname=BusinessAppResourceGroup

az  create --location centralus - -name $resourcegroupname
 create --name $webappname - -resource-group $resourcegroupname
 - -sku S3
 create --name $webappname - -resource-group $resourcegroupname
 \ - -plan $webappname
 create --name $webappname - -resource-group $resourcegroupname
\ - -slot staging

az  config - -name $webappname - -resource-group $resourcegroupname
 \ - -slot staging - -repo-url
 $gitrepo - -branch master - -manual-integration




az 






az 






az 





```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: group

Create a resource group.

az group create --location westeurope --name myResourceGroup

Box 2: appservice plan

Create an App Service plan in STANDARD tier (minimum required by deployment slots). az appservice plan create --name \$webappname --resource-group myResourceGroup --sku S1

Box 3: webapp

Create a web app.

az webapp create --name \$webappname --resource-group myResourceGroup \

--plan \$webappname

Box 4: webapp deployment slot

#Create a deployment slot with the name "staging".

az webapp deployment slot create --name \$webappname --resource-group myResourceGroup \

--slot staging

Box 5: webapp deployment source

Deploy sample code to "staging" slot from GitHub.

az webapp deployment source config --name \$webappname --resource-group myResourceGroup \

--slot staging --repo-url \$gitrepo --branch master --manual-integration

References:
<https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-deploy-staging-environment>

NEW QUESTION 6

- (Exam Topic 3)

You are developing an app that manages users for a video game. You plan to store the region, email address, and phone number for the player. Some players may not have a phone number. The player's region will be used to load-balance data.

Data for the app must be stored in Azure Table Storage.

You need to develop code to retrieve data for an individual player.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
public class PlayerEntity : TableEntity
{
    public PlayerEntity()
    {
    }
    public PlayerEntity(string region, string email)
    {
        PartitionKey = [dropdown menu with options: email, phone, region] ;
        RowKey = [dropdown menu with options: email, phone, region] ;
    }
    public string Phone { get; set; }
}

public class Player
{
    protected PlayerEntity player;
    async void GetPlayer(string cs, [dropdown menu with options: CloudTable, CloudTableClient, TableEntity, TableEntityAdapter] table, string pk, string rk)
    {
        [dropdown menu with options: TableEntity query =TableEntity.Retrieve<PlayerEntity>(pk, rk);
        TableOperation query =TableOperation.Retrieve<PlayerEntity>(pk,rk);
        TableResult query =TableQuery.Retrieve<PlayerEntity>(pk,rk);
        TableResultSegment query =TableResult.Retrieve<PlayerEntity>(pk, rk);]
        [dropdown menu with options: TableEntity data =await table.ExecuteAsync(query);
        TableOperation data =await table.ExeucteAsync(query);
        TableQuery data =await table.ExecuteAsync(query);
        TableResult data =await table.ExecuteAsync(query);]
        player=data.Result as PlayerEntity;
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: region

The player's region will be used to load-balance data. Choosing the PartitionKey.

The core of any table's design is based on its scalability, the queries used to access it, and storage operation requirements. The PartitionKey values you choose will dictate how a table will be partitioned and the type of queries that can be used. Storage operations, in particular inserts, can also affect your choice of PartitionKey values.

Box 2: email

Not phone number some players may not have a phone number. Box 3: CloudTable

Box 4 : TableOperation query =.. Box 5: TableResult

References:

<https://docs.microsoft.com/en-us/rest/api/storageservices/designing-a-scalable-partitioning-strategy-for-azure-ta>

NEW QUESTION 7

- (Exam Topic 3)

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 8

- (Exam Topic 3)

You are a developer for a software as a service (SaaS) company that uses an Azure Function to process orders. The Azure Function currently runs on an Azure Function app that is triggered by an Azure Storage queue.

You are preparing to migrate the Azure Function to Kubernetes using Kubernetes-based Event Driven Autoscaling (KEDA).

You need to configure Kubernetes Custom Resource Definitions (CRD) for the Azure Function.

Which CRDs should you configure? To answer, drag the appropriate CRD types to the correct locations. Each CRD 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.

Answer Area

CRD types	Setting	CRD type
Secret	Azure Function code	
Deployment	Polling interval	
ScaledObject	Azure Storage connection string	
TriggerAuthentication		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Deployment

To deploy Azure Functions to Kubernetes use the `func kubernetes deploy` command has several attributes that directly control how our app scales, once it is deployed to Kubernetes.

Box 2: ScaledObject

With `--polling-interval`, we can control the interval used by KEDA to check Azure Service Bus Queue for messages.

Example of ScaledObject with polling interval `apiVersion: keda.k8s.io/v1alpha1`

kind: ScaledObject metadata:

name: transformer-fn namespace: tt

labels:

deploymentName: transformer-fn spec:

scaleTargetRef: deploymentName: transformer-fn pollingInterval: 5

minReplicaCount: 0

maxReplicaCount: 100

Box 3: Secret

Store connection strings in Kubernetes Secrets. Example: to create the Secret in our demo Namespace:

```
# create the k8s demo namespace kubectl create namespace tt
```

```
# grab connection string from Azure Service Bus KEDA_SCALER_CONNECTION_STRING=$(az servicebus queue authorization-rule keys list \
```

```
-g $RG_NAME \
```

```
--namespace-name $SBN_NAME \
```

```
--queue-name inbound \
```

```
-n keda-scaler \
```

```
--query "primaryConnectionString" \
```

```
-o tsv)
```

```
# create the kubernetes secret
```

```
kubectl create secret generic tt-keda-auth \
```

```
--from-literal KedaScaler=$KEDA_SCALER_CONNECTION_STRING \
```

```
--namespace tt Reference:
```

<https://www.thinktecture.com/en/kubernetes/serverless-workloads-with-keda/>

NEW QUESTION 9

- (Exam Topic 3)

Contoso, Ltd. provides an API to customers by using Azure API Management (APIM). The API authorizes users with a JWT token.

You must implement response caching for the APIM gateway. The caching mechanism must detect the user ID of the client that accesses data for a given location and cache the response for that user ID.

You need to add the following policies to the policies file:

- a set-variable policy to store the detected user identity
- a cache-lookup-value policy
- a cache-store-value policy
- a find-and-replace policy to update the response body with the user profile information

To which policy section should you add the policies? To answer, drag the appropriate sections to the correct policies. Each section 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

Answer Area

Policy section	Policy	Policy section
	Set-variable	<input type="text"/>
<input type="text" value="Inbound"/>	Cache-lookup-value	<input type="text"/>
<input type="text" value="Outbound"/>	Cache-store-value	<input type="text"/>
	Find-and-replace	<input type="text"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Inbound.

A set-variable policy to store the detected user identity. Example:

```
<policies>
<inbound>
<!-- How you determine user identity is application dependent -->
<set-variable name="enduserid"
value="@((context.Request.Headers.GetValueOrDefault("Authorization","")).Split(' ')[1].AsJwt()?.Subject)" />
</inbound>
```

Box 2: Inbound
A cache-lookup-value policy Example:

```
<inbound>
<base />
<cache-lookup vary-by-developer="true | false" vary-by-developer-groups="true | false" downstream-caching-type="none | private | public" must-revalidate="true | false">
<vary-by-query-parameter>parameter name</vary-by-query-parameter> <!-- optional, can repeated several times -->
</cache-lookup>
</inbound>
```

Box 3: Outbound

A cache-store-value policy. Example:

```
<outbound>
<base />
<cache-store duration="3600" />
</outbound>
```

Box 4: Outbound

A find-and-replace policy to update the response body with the user profile information. Example:

```
<outbound>
<!-- Update response body with user profile-->
<find-and-replace from="$userprofile$"
to="@((string)context.Variables["userprofile"])" />
<base />
</outbound>
```

Reference:

- <https://docs.microsoft.com/en-us/azure/api-management/api-management-caching-policies>
- <https://docs.microsoft.com/en-us/azure/api-management/api-management-sample-cache-by-key>

NEW QUESTION 10

- (Exam Topic 3)

You are developing an application that uses Azure Storage Queues. You have the following code:

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse
(CloudConfigurationManager.GetSetting("StorageConnectionString"));
CloudQueueClient queueClient = storageAccount.CreateCloudQueueClient()

CloudQueue queue = queueClient.GetQueueReference("appqueue");
await queue.CreateIfNotExistsAsync();

CloudQueueMessage peekedMessage = await queue.PeekMessageAsync();
if (peekedMessage != null)
{
    Console.WriteLine("The peeked message is: {0}", peekedMessage.AsString);
}
CloudQueueMessage message = await queue.GetMessageAsync();
```

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

NOTE: Each correct selection is worth one point.

Answer Area

Statement	Yes	No
The code configures the lock duration for the queue.	<input type="radio"/>	<input type="radio"/>
The last message read remains in the queue after the code runs.	<input type="radio"/>	<input type="radio"/>
The storage queue remains in the storage account after the code runs.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: No

The QueueDescription.LockDuration property gets or sets the duration of a peek lock; that is, the amount of time that the message is locked for other receivers. The maximum value for LockDuration is 5 minutes; the default value is 1 minute.

Box 2: Yes

You can peek at the message in the front of a queue without removing it from the queue by calling the PeekMessage method.

Box 3: Yes Reference:

<https://docs.microsoft.com/en-us/azure/storage/queues/storage-dotnet-how-to-use-queues> <https://docs.microsoft.com/en-us/dotnet/api/microsoft.servicebus.messaging.queuedescription.lockduration>

NEW QUESTION 10

- (Exam Topic 3)

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.

You are developing a solution that will be deployed to an Azure Kubernetes Service (AKS) cluster. The solution will include a custom VNet, Azure Container Registry images, and an Azure Storage account.

The solution must allow dynamic creation and management of all Azure resources within the AKS cluster. You need to configure an AKS cluster for use with the Azure APIs.

Solution: Enable the Azure Policy Add-on for Kubernetes to connect the Azure Policy service to the GateKeeper admission controller for the AKS cluster. Apply a built-in policy to the cluster.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead create an AKS cluster that supports network policy. Create and apply a network to allow traffic only from within a defined namespace

References:

<https://docs.microsoft.com/en-us/azure/aks/use-network-policies>

NEW QUESTION 12

- (Exam Topic 3)

You are developing an ASP.NET Core Web API web service that uses Azure Application Insights to monitor performance and track events.

You need to enable logging and ensure that log messages can be correlated to events tracked by Application Insights.

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

Answer Area

```

public class Startup
{
    . . .
    public void ConfigureServices (IServiceCollection services)
    {
        services.AddOptions< [ ] >().
        Configure(o => o. [ ] = true );
        services.AddMvc();
    }
    public void Configure (IApplicationBuilder app,
        IHostingEnvironment env, ILoggerFactory loggerFactory)
    {
        loggerFactory.AddApplicationInsights(app. [ ], LogLevel.Trace);
        app.UseMvc();
    }
}
    
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: ApplicationInsightsLoggerOptions

If you want to include the EventId and EventName properties, then add the following to the ConfigureServices method:
 services.AddOptions<ApplicationInsightsLoggerOptions>().Configure(o => o.IncludeEventId = true);

Box 2: IncludeEventID

Box 3: ApplicationServices

In Asp.Net core apps it turns out that trace logs do not show up in Application Insights out of the box. We need to add the following code snippet to our Configure method in Startup.cs:

loggerFactory.AddApplicationInsights(app.ApplicationServices, logLevel);

References:
<https://blog.computecloud.com/enabling-application-insights-trace-logging-in-asp-net-core/>

NEW QUESTION 15

- (Exam Topic 3)

You are developing an application to use Azure Blob storage. You have configured Azure Blob storage to include change feeds.

A copy of your storage account must be created in another region. Data must be copied from the current storage account to the new storage account directly between the storage servers.

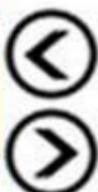
You need to create a copy of the storage account in another region and copy the data.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Answer Area

- Use AZCopy to copy the data to the new storage account.
- Deploy the template to create a new storage account in the target region.
- Export a Resource Manager template.
- Create a new template deployment.
- Modify the template by changing the storage account name and region.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

To move a storage account, create a copy of your storage account in another region. Then, move your data to that account by using AzCopy, or another tool of your choice.

The steps are:

- > Export a template.
- > Modify the template by adding the target region and storage account name.
- > Deploy the template to create the new storage account.
- > Configure the new storage account.
- > Move data to the new storage account.
- > Delete the resources in the source region.

Note: You must enable the change feed on your storage account to begin capturing and recording changes. You can enable and disable changes by using Azure Resource Manager templates on Portal or Powershell.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-move> <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-change-feed>

NEW QUESTION 18

- (Exam Topic 3)

You are developing a solution that will use Azure messaging services.

You need to ensure that the solution uses a publish-subscribe model and eliminates the need for constant polling.

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. Service Bus
- B. Event Hub
- C. Event Grid
- D. Queue

Answer: AC

Explanation:

It is strongly recommended to use available messaging products and services that support a publish-subscribe model, rather than building your own. In Azure, consider using Service Bus or Event Grid. Other technologies that can be used for pub/sub messaging include Redis, RabbitMQ, and Apache Kafka.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/patterns/publisher-subscriber>

NEW QUESTION 19

- (Exam Topic 3)

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 hostjson 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 22

- (Exam Topic 3)

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 24

- (Exam Topic 3)

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 27

- (Exam Topic 3)

You have an Azure App Services Web App. Azure SQL Database instance. Azure Storage Account and an Azure Redis Cache instance in a resource group. A developer must be able to publish code to the web app. You must grant the developer the Contributor role to the web app.

You need to grant the role.

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

- A. New-AzureRmRoleAssignment
- B. az role assignment create
- C. az role definition create
- D. New-AzureRmRoleDefinition

Answer: AB

Explanation:

References:
<https://docs.microsoft.com/en-us/cli/azure/role/assignment?view=azure-cli-latest#az-role-assignment-create> <https://docs.microsoft.com/en-us/powershell/module/azurerm.resources/new-azureroleassignment?view=azur>

NEW QUESTION 31

- (Exam Topic 3)

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	Answer Area
az group create	
az group update	
az webapp update	⬅
az webapp create	➡
az appservice plan create	
	⬆
	⬇

- 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 33

- (Exam Topic 3)

You are working for a company that designs mobile applications. They maintain a server where player records are assigned to their different games. The tracking system is new and in development.

The application uses Entity Framework to connect to an Azure Database. The database holds a Player table and Game table.

When adding a player, the code should insert a new player record, and add a relationship between an existing game record and the new player record.

The application will call CreatePlayerWithGame with the correct gameId and the playerId to start the process. (Line numbers are included for reference only.)

```

01. namespace ContosoCradt
02. {
03.     public class PlayerDbContext : DbContext
04.     {
05.         public PlayerDbContext() : base ("name-dBConnString") { }
06.         public DbSet<Player> Players { get ; set ; }
07.         public DbSet<Game> Games { get ; set ; }
08.         protected override void OnModelCreating(DbModelBuilder modelBuilder)
09.         {
10.             modelBuilder.Entity<Player>().HasMany(x => x.Games).WithMany (x => x.Players);
11.         }
12.     }
13.     internal class dbConfiguration : DbMigrationConfiguration<PlayerDbContext>
14.     {
15.         public dbConfiguration() . {AutomaticMigrationsEnabled = true ; }
16.     }
17.     public class mp
18.     {
19.         public void CreatePlayerWithGame(int playerId, int gameId) => AddPlayer(playerId, GetGame(gameId));
20.         public Game GetGame(int gameId)
21.         {
22.             using (var db = new PlayerDbContext())
23.             {
24.                 return db.Games.FirstOrDefault(x => x.GameId == gameId);
25.             }
26.         }
27.         public Player AddPlayer (int playerId, Game game)
28.         {
29.             using (var db = new PlayerDbContext())
30.             {
31.                 var player = new Player
32.                 {
33.                     PlayerId = playerId,
34.                     Games = new List <Game> {game },
35.                 };
36.                 db.Players.Add(player);
37.                 db.SaveChanges();
38.                 return player;
39.             }
40.         }
41.     }
42.     public class Player
43.     {
44.         public int PlayerId { get ; set; }
45.         public string PlayerName { get ; set; }
46.         public virtual List<Game> Games { get ; set; }
47.     }
48.     public class Game
49.     {
50.         public int GameId { get ; set ; }
51.         public string Title { get ; set; }
52.         public string Platform { get ; set; }
53.         public virtual List<Player> Players { get ; set; }
54.     }

```

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

Yes **No**

- | | | |
|---|-----------------------|-----------------------|
| The code will successfully insert a player record. | <input type="radio"/> | <input type="radio"/> |
| The code has a bug and will insert an additional copy of the Game record with a new Id. | <input type="radio"/> | <input type="radio"/> |
| The code has a bug and will insert the wrong gameId value. | <input type="radio"/> | <input type="radio"/> |
| There is a valid many-to-many relationship between Players and Games. | <input type="radio"/> | <input type="radio"/> |

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Many-to-many relationships without an entity class to represent the join table are not yet supported. However, you can represent a many-to-many relationship by including an entity class for the join table and mapping two separate one-to-many relationships.

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
```

```
{
modelBuilder.Entity<PostTag>() HasKey(t => new { t.PostId, t.TagId }); modelBuilder.Entity<PostTag>() HasOne(pt => pt.Post)
WithMany(p => p.PostTags) HasForeignKey(pt => pt.PostId); modelBuilder.Entity<PostTag>() HasOne(pt => pt.Tag) WithMany(t => t.PostTags) HasForeignKey(pt
=> pt.TagId);
}
}
```

NEW QUESTION 38

- (Exam Topic 3)

You are developing an ASP.NET Core website that can be used to manage photographs which are stored in Azure Blob Storage containers.

Users of the website authenticate by using their Azure Active Directory (Azure AD) credentials.

You implement role-based access control (RBAC) role permission on the containers that store photographs. You assign users to RBAC role.

You need to configure the website's Azure AD Application so that user's permissions can be used with the Azure Blob containers.

How should you configure the application? To answer, drag the appropriate setting to the correct location. Each setting 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.

Settings	Answer Area		
	API	Permission	Type
client_id	Azure Storage	Setting	Setting
delegated	Microsoft Graph	User.Read	Setting
profile			
application			
user_impersonation			

A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1: user_impersonation

Box 2: delegated Example:

- * 1. Select the API permissions section
- * 2. Click the Add a permission button and then: Ensure that the My APIs tab is selected
- * 3. In the list of APIs, select the API TodoListService-aspnetcore.
- * 4. In the Delegated permissions section, ensure that the right permissions are checked: user_impersonation. 5. Select the Add permissions button.

Box 3: delegated Example

- * 1. Select the API permissions section
- * 2. Click the Add a permission button and then, Ensure that the Microsoft APIs tab is selected
- * 3. In the Commonly used Microsoft APIs section, click on Microsoft Graph
- * 4. In the Delegated permissions section, ensure that the right permissions are checked: User.Read. Use the search box if necessary.
- * 5. Select the Add permissions button

References:
<https://docs.microsoft.com/en-us/samples/azure-samples/active-directory-dotnet-webapp-webapi-openidconnect>

NEW QUESTION 43

- (Exam Topic 3)

You develop an Azure web app. You monitor performance of the web app by using Application Insights. You need to ensure the cost for Application Insights does not exceed a preset budget. What should you do?

- A. Implement ingestion sampling using the Azure portal.
- B. Set a daily cap for the Application Insights instance.
- C. Implement adaptive sampling using the Azure portal.
- D. Implement adaptive sampling using the Application Insights SDK.
- E. Implement ingestion sampling using the Application Insights SDK.

Answer: D

Explanation:

Sampling is an effective way to reduce charges and stay within your monthly quota.

You can set sampling manually, either in the portal on the Usage and estimated costs page; or in the ASP.NET SDK in the .config file; or in the Java SDK in the ApplicationInsights.xml file, to also reduce the network traffic.

Adaptive sampling is the default for the ASP.NET SDK. Adaptive sampling automatically adjusts to the volume of telemetry that your app sends. It operates automatically in the SDK in your web app so that telemetry traffic on the network is reduced.

References:

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

NEW QUESTION 48

- (Exam Topic 3)

You plan to create a Docker image that runs as ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- Call setupScript.ps1 when the container is built.
- Run ContosoApp.dll when the container starts.

The Docker document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which four 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.

Commands	Answer Area	
RUN powershell ./setupScript.ps1 CMD ["dotnet", "ContosoApp.dll"]	<input type="checkbox"/>	
EXPOSE ./ContosoApp/ /apps/ContosoApp	<input type="checkbox"/>	
COPY ./	<input type="checkbox"/>	<input type="checkbox"/>
FROM microsoft/aspnetcore:2.0	<input type="checkbox"/>	<input type="checkbox"/>
WORKDIR /apps/ContosoApp	<input type="checkbox"/>	
CMD powershell ./setupScript.ps1 ENTRYPOINT ["dotnet", "ContosoApp.dll"]	<input type="checkbox"/>	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: WORKDIR /apps/ContosoApp Step 2: COPY ./The Docker document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Step 3: EXPOSE ./ContosoApp/ /app/ContosoApp Step 4: CMD powershell ./setupScript.ps1 ENTRYPOINT ["dotnet", "ContosoApp.dll"]

You need to create a Dockerfile document that meets the following requirements:

- > Call setupScript.ps1 when the container is built.
- > Run ContosoApp.dll when the container starts. References:

<https://docs.microsoft.com/en-us/azure/app-service/containers/tutorial-custom-docker-image>

NEW QUESTION 53

- (Exam Topic 3)

You are developing a ticket reservation system for an airline.

The storage solution for the application must meet the following requirements:

- > Ensure at least 99.99% availability and provide low latency.
- > Accept reservations event when localized network outages or other unforeseen failures occur.
- > Process reservations in the exact sequence as reservations are submitted to minimize overbooking or selling the same seat to multiple travelers.
- > Allow simultaneous and out-of-order reservations with a maximum five-second tolerance window. You provision a resource group named airlineResourceGroup in the Azure South-Central US region. You need to provision a SQL SPI Cosmos DB account to support the app.

How should you complete the Azure CLI commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
resourceGroupName- +airlineResourceGroup'
name- +docdb-airline-reservations'
databaseName- 'docdb-tickets-database'
collectionName- 'docdb-tickets-collection'
consistencyLevel-
```

▼
Strong
Eventual
ConsistentPrefix
BoundedStaleness

```
az cosmosdb create \
--name $name \
```

▼
--enable-virtual-network true\
--enable-automatic-failover true\
--kind 'GlobalDocumentDB' \
--kind 'MongoDB'\

```
--resource group $resourceGroupName \
--max interval 5 \
```

▼
--locations 'southcentralus'
--locations 'eastus'
--locations'southcentralus=0 eastus=1 westus=2'
--locations 'southcentralus=0'

```
--default-consistency-level - $consistencylevel
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: BoundedStaleness

Bounded staleness: The reads are guaranteed to honor the consistent-prefix guarantee. The reads might lag behind writes by at most "K" versions (that is, "updates") of an item or by "T" time interval. In other words, when you choose bounded staleness, the "staleness" can be configured in two ways:

The number of versions (K) of the item

The time interval (T) by which the reads might lag behind the writes Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels> <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/cosmos-db/manage-with-cli.md>

NEW QUESTION 54

- (Exam Topic 3)

You have a web app named MainApp. You are developing a triggered App Service background task by using the WebJobs SDK. This task automatically invokes a function code whenever any new data is received in a queue.

You need to configure the services.

Which service should you use for each scenario? To answer, drag the appropriate services to the correct scenarios. Each service 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	Scenario	Service
Logic Apps	Process a queue data item.	<input type="text"/>
WebJobs	Manage all code segments from the same DevOps environment.	<input type="text"/>
Flow		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: WebJobs

A WebJob is a simple way to set up a background job, which can process continuously or on a schedule. WebJobs differ from a cloud service as it gives you get less fine-grained control over your processing environment, making it a more true PaaS service.

Box 2: Flow

NEW QUESTION 55

- (Exam Topic 3)

You are developing an Azure App Service hosted ASP.NET Core web app to deliver video on-demand streaming media. You enable an Azure Content Delivery Network (CDN) Standard for the web endpoint. Customer videos are downloaded from the web app by using the following example URL.:

`http://www.contoso.com/content.mp4?quality=1`

All media content must expire from the cache after one hour. Customer videos with varying quality must be delivered to the closest regional point of presence (POP) node.

You need to configure Azure CDN caching rules.

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

NOTE: Each correct selection is worth one point.

Answer Area

Setting	Action
Caching behavior	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Bypass cache</p> <p>Override</p> <p>Set if missing</p> </div> </div>
Cache expiration duration	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>1 second</p> <p>1 minute</p> <p>1 hour</p> <p>1 day</p> </div> </div>
Query string caching behavior	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Ignore query strings</p> <p>Bypass caching for query strings</p> <p>Cache every unique URL</p> </div> </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Override

Override: Ignore origin-provided cache duration; use the provided cache duration instead. This will not override cache-control: no-cache.

Set if missing: Honor origin-provided cache-directive headers, if they exist; otherwise, use the provided cache duration.

Incorrect:

Bypass cache: Do not cache and ignore origin-provided cache-directive headers. Box 2: 1 hour

All media content must expire from the cache after one hour. Box 3: Cache every unique URL

Cache every unique URL: In this mode, each request with a unique URL, including the query string, is treated as a unique asset with its own cache. For example, the response from the origin server for a request for `example.ashx?q=test1` is cached at the POP node and returned for subsequent caches with the same query string. A request for `example.ashx?q=test2` is cached as a separate asset with its own time-to-live setting.

Reference:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-query-string>

NEW QUESTION 60

- (Exam Topic 3)

You are deploying an Azure Kubernetes Services (AKS) cluster that will use multiple containers.

You need to create the cluster and verify that the services for the containers are configured correctly and available.

Which four commands should you use to develop the solution? To answer, move the appropriate command segments from the list of command segments to the answer area and arrange them in the correct order.

Command segments

Answer Area

az aks get-credentials

az appservice plan create

az aks create

az group create

kubectl apply



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: az group create

Create a resource group with the az group create command. An Azure resource group is a logical group in which Azure resources are deployed and managed.

Example: The following example creates a resource group named myAKSCluster in the eastus location. az group create --name myAKSCluster --location eastus

Step 2 : az aks create

Use the az aks create command to create an AKS cluster. Step 3: kubectl apply

To deploy your application, use the kubectl apply command. This command parses the manifest file and creates the defined Kubernetes objects.

Step 4: az aks get-credentials

Configure it with the credentials for the new AKS cluster. Example:

az aks get-credentials --name aks-cluster --resource-group aks-resource-group References:

<https://docs.bitnami.com/azure/get-started-aks/>

NEW QUESTION 61

- (Exam Topic 3)

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 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..

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

* 1. The index needs to be populated. To do this, we will need a SearchIndexClient. There are two ways to obtain one: by constructing it, or by calling Indexes.GetClient on the SearchServiceClient. Here we will use the first method.

* 2. Create the indexBatch with the documents Something like:

```
var hotels = new Hotel[];
{
new Hotel()
{
HotelId = "3",
BaseRate = 129.99,
Description = "Close to town hall and the river"
}
};
...
```

var batch = IndexBatch.Upload(hotels);

* 3. The next step is to populate the newly-created index Example:

```
var batch = IndexBatch.Upload(hotels); try
{
indexClient.Documents.Index(batch);
}
}
```

References:

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

NEW QUESTION 62

- (Exam Topic 3)

You must implement Application Insights instrumentation capabilities utilizing the Azure Mobile Apps SDK to provide meaningful analysis of user interactions with a mobile app.

You need to capture the data required to implement the Usage Analytics feature of Application Insights. Which three data values should you capture? Each correct answer presents part of the solution

NOTE: Each correct selection is worth one point.

- A. Trace
- B. Session Id
- C. Exception
- D. User Id
- E. Events

Answer: ADE

Explanation:

Application Insights is a service for monitoring the performance and usage of your apps. This module allows you to send telemetry of various kinds (events, traces, etc.) to the Application Insights service where your data can be visualized in the Azure Portal.

Application Insights manages the ID of a session for you. References: <https://github.com/microsoft/ApplicationInsights-Android>

NEW QUESTION 65

- (Exam Topic 3)

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 69

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