



70-487^{Q&As}

Developing Microsoft Azure and Web Services

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QUESTION 1

DRAG DROP

Flight information data provided by Margie's Travel is updated both locally and remotely. When the data is synced, all changes need to be merged together without causing any data loss or corruption.

You need to implement the Sync() method in the MargiesTravelSync.cs file.

You have the following code:

```
public void Sync ()
{
    var sendStream = SendStream ();
    var receiveStream = ReceiveStream ();
    var local = LoadLocal ();
    local.WriteXml (sendStream, Target 1);
    local.ReadXml (receiveStream, Target 2);
}
```

What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. 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.)

Select and Place:

XmlReadMode.DiffGram
XmlReadMode.Fragment
XmlReadMode.InferSchema
XmlWriteMode.DiffGram
XmlWriteMode.IgnoreSchema

Answer Area

```
public void Sync()
{
    var sendStream = SendStream();
    var receiveStream = ReceiveStream();
    var local = LoadLocal();

    local.WriteXml(sendStream, );
    local.ReadXml(receiveStream, );
}
```

Correct Answer:

XmlReadMode.Fragment
XmlReadMode.InferSchema

XmlWriteMode.IgnoreSchema

Answer Area

```
public void Sync()
{
    var sendStream = SendStream();
    var receiveStream = ReceiveStream();
    var local = LoadLocal();

    local.WriteXml(sendStream, XmlWriteMode.DiffGram );
    local.ReadXml(receiveStream, XmlReadMode.DiffGram );
}
```



<http://msdn.microsoft.com/en-us/library/ms135424.aspx>

QUESTION 2

You are deploying an Internet of Things (IoT) environment. You plan to collect data from various sources on irregular intervals. You need to implement a solution that meets the requirements of the following groups of users:

Group	Descriptions
Analysts	Analysts access raw data collected from IoT devices.
Researchers	Researchers analyze data stored in an Azure SQL Database instance.
Data scientists	Data scientists analyze collected data to identify trends and to make predictions about future behavior.

What should you implement? To answer, drag the appropriate products to the correct groups. Each product may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Select and Place:

Products

Event Hubs

IoT Hubs

Machine Learning Studio

Stream Analytics

Answer area

Group

Analysts

Researchers

Data Scientists

Product

Product

Product

Product

Correct Answer:

Products

Event Hubs

Answer area

Group

Analysts

Researchers

Data Scientists

Product

IoT Hubs

Stream Analytics

Machine Learning Studio

References: <https://docs.microsoft.com/en-us/azure/machine-learning/studio/what-is-ml-studio>
<https://docs.microsoft.com/en-us/azure/iot-hub/> <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-introduction>

You are designing an ASP.NET Web API for a bank. The API has a controller named AccountsController that includes the following actions:



Action	Description
GetTransactions	This action accepts a date range and account identifier and retrieves all transactions for the given account identifier in the given date range from a SQL Server database.
GenerateLoanPaymentPlan	This action generates a loan payment plan for the given account identifier and loan amount, payment duration, and interest rate. This action is processed locally on the web server. No database calls are required.
GetCreditScore	This action gets the credit score for the owner of the given account identifier by using a SOAP web service provided by a credit rating agency.
GetOffers	This action serves a PDF file of recent offers. The PDF files are stored locally on the web server and no database calls are required.

QUESTION 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.

You have developed a .NET Standard Library.

You need to produce a NuGet package.

Solution: Run the dotnet pack command

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Package the component with the NuGet pack command.

References: <https://docs.microsoft.com/en-us/nuget/guides/create-net-standard-packages-vs2015>

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution 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 deploy an ASP.NET Core web application to Azure App Services. You are using Azure Event Hubs to collect the



telemetry data for the application.

You need to configure Event Hubs to automatically deliver the telemetry data stream to a persistent data store.

Solution: Configure Azure Event Hubs Capture to deliver data to Azure SQL Database.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Use Azure Blob storage to store the telemetry data.

References: <https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-capture-overview>

QUESTION 5

You are developing an order processing application that uses the Entity Framework against a SQL Server database. The application has a method that returns orders filtered by date. The Order class is shown below.

```
public partial class Order
{
    ...
    public Nullable<System.DateTime> OrderDate { get; set; }
    ...
}
```

You must filter the data on the SQL server before it is returned to the application server.

You need to return orders more recent than the entered date.

Which code segment should you use?

- A. `IQueryable<Order> orders = db.Orders.ToList().AsQueryable();
orders = orders.Where(o => o.OrderDate >= date);`
- B. `IQueryable<Order> orders = db.Orders;
orders = orders.Where(o => o.OrderDate >= date);`
- C. `IEnumerable<Order> orders = db.Orders;
orders = orders.Where(o => o.OrderDate >= date);`
- D. `IEnumerable<Order> orders = db.Orders.ToList().AsQueryable();
orders = orders.Where(o => o.OrderDate >= date);`

A. Option A

B. Option B

C. Option C



D. Option D

Correct Answer: D

References: <https://docs.microsoft.com/en-us/dotnet/api/system.collections.generic.ienumerable-1?view=netframework-4.7.2>

QUESTION 6

You are developing a RESTful application by using ASP.NET MVC. The application is a pet management system and implements the following method in a controller for retrieving pet data.

```
public Pet Get(int id)
{
    return new PetRepository().GetPetById(id);
}
```

The method must only accept JSON data using the standard MIME type.

You need to implement a controller that saves pet data and return a properly formatted HTTP/1.1 protocol response.

You have the following code:

```
public Target 1 Post ()
{
    if (Request.Content.Headers.ContentType.MediaType !=
        Target 2)
    {
        throw new HttpResponseException(JsonMessage);
    }
    Pet pet = new Pet ();
    var response = new Target 3 (pet,
        HttpStatusCode.Created);
    var relativePath = Target 4 ;
    response.Headers.Location = new Uri (Request.RequestUri,
        relativePath);
    return response;
}
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to complete the code? {To answer, drag the appropriate code segments to the correct targets in the answer area. 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.)

Select and Place:



Code Segments	Answer Area
<input type="text" value="ActionResult"/>	Target 1: <input type="text" value="Code Segment"/>
<input type="text" value="HttpResponseMessage<Pet>"/>	Target 2: <input type="text" value="Code Segment"/>
<input type="text" value="HttpMessageContent"/>	Target 3: <input type="text" value="Code Segment"/>
<input +="" pet.id"="" type="text" value="/api/get/pet/"/>	Target 4: <input type="text" value="Code Segment"/>
<input +="" pet.id"="" type="text" value="/pet/get/"/>	
<input +="" pet.id"="" type="text" value="/api/pet/"/>	
<input type="text" value="text/json"/>	
<input type="text" value="json"/>	
<input type="text" value="application/json"/>	

Correct Answer:

Code Segments	Answer Area
<input type="text" value="ActionResult"/>	Target 1: <input type="text" value="HttpResponseMessage<Pet>"/>
<input type="text" value="HttpResponseMessage<Pet>"/>	Target 2: <input type="text" value="application/json"/>
<input type="text" value="HttpMessageContent"/>	Target 3: <input type="text" value="HttpResponseMessage<Pet>"/>
<input +="" pet.id"="" type="text" value="/api/get/pet/"/>	Target 4: <input +="" pet.id"="" type="text" value="/api/pet/"/>
<input +="" pet.id"="" type="text" value="/pet/get/"/>	
<input +="" pet.id"="" type="text" value="/api/pet/"/>	
<input type="text" value="text/json"/>	
<input type="text" value="json"/>	
<input type="text" value="application/json"/>	



QUESTION 7

You manage an ASP.NET Core E-Commerce application that is deployed to Azure App Service. You plan to use Application Insights for collecting telemetry data.

You must prepare a report that describes utilization patterns of uses. The report must include the following information:

the Country or Region from which users access the application

how often and for how long users browse the catalog

how many Canadian customers visited the offers page

how much time Premium customers spend on the support page

the percentage of users that added items to a shopping cart and completed purchases

You need to collect the required data.

Which tool should you use? To answer, drag the appropriate tools to the correct requirements. 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.

Select and Place:

Tools		Answer Area	
		Report section	Application insights tool
Session	Cohorts	Geography	Tool
Funnels	Retention	Feature usage	Tool
Trends	Users	Canada offers	Tool
		Premium support	Tool
		Buyer behavior	Tool

Correct Answer:



Tools

Session

Cohorts

Funnels

Retention

Trends

Users

Answer Area

Report section

Geography

Feature usage

Canada offers

Premium support

Buyer behavior

Application insights tool

Users

Session

Cohorts

Cohorts

Funnels

QUESTION 8

You plan to create several .NET applications that will read from Microsoft SQL Server 2014 databases by using Microsoft ADO.NET. The relevant requirements for the applications are described in the following table.

Application name	Requirement
App1	Will populate three lists from a SQL Server table. The returned lists must have a specific sort order.
App2	Will populate the data from a SQL Server table to a custom list of objects.
App3	Will bind to a GridView and will maintain data in view state. Users will modify the data by using the GridView.

Typically, the applications will read thousands of rows of data at a time.

You need to identify which object to use to retrieve data for each application. The solution must minimize the amount of memory used on the application server.

What should you identify? To answer, select the appropriate options in the answer area.

Hot Area:



Answer Area

App1:

	▼
DataAdapter	
DataReader	

App2:

	▼
DataAdapter	
DataReader	

App3:

	▼
DataAdapter	
DataReader	

Correct Answer:

Answer Area

App1:

	▼
DataAdapter	
DataReader	

App2:

	▼
DataAdapter	
DataReader	

App3:

	▼
DataAdapter	
DataReader	



QUESTION 9

You need to identify a solution to display the car brands. What should you include in the solution?

- A. Azure Automation
- B. Azure RemoteApp
- C. the Service Bus queue
- D. a virtual private network (VPN)
- E. the Service Bus topics
- F. the Service Bus relay
- G. ExpressRoute

Correct Answer: C

Azure Service Bus Messaging can safely use the QueueClient object for sending messages from concurrent asynchronous operations and multiple threads. Scenario: The action in the Web API that returns the car brand must be asynchronous, while all other actions must be synchronous.

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

QUESTION 10

You are developing an ASP.NET Web API action method.

The action method must return the following JSON in the message body.

```
{"Name": "Fabrikam", "VendorId" :9823, Items": ["Dogs", "Cats"] >
```

You need to return an anonymous object that is serialized to JSON.

What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. 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.)

Select and Place:

```
"Fabrikam", VendorNumber = 9823,  
"Fabrikam", VendorNumber = "9823",  
new List<string> { "Dogs", "Cats" }  
new List<string> { "Dogs, Cats" }  
return new List<string>  
return new
```

Answer Area

```
public object Get()  
{  
    ;  
    Name =  
    Items =  
};
```



Correct Answer:

```
public object Get()
{
    return new List<string>
    {
        Name = "Fabrikam", VendorNumber = "9823",
        Items = new List<string> { "Dogs", "Cats" }
    };
}
```

QUESTION 11

DRAG DROP

You need to modify the ExecuteCommandProcedure() method to meet the technical requirements.

You have the following code:

```
private async Task ExecuteCommandProcedure (EntityCommand command)
{
    using (EntityConnection connection
    =new EntityConnection ("ExternalOrdersEntities"))
    {
        command.Connection = connection;
        Target 1
        Target 2
    }
}
```

Which code segments should you include in Target 1 and Target 2 to complete the code? (To answer, drag the appropriate code segments to the correct location in the answer area. Each 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.

Select and Place:



```
await connection.OpenAsync();
await command.ExecuteNonQueryAsync();
connection.OpenAsync();
command.OpenAsync();
await command.QueryAsync();
```

Answer Area

```
private async Task ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection
        = new EntityConnection("name=ExternalOrdersEntities"))
    {
        command.Connection = connection;
        //
    }
}
```

Correct Answer:

```
await command.ExecuteNonQueryAsync();
connection.OpenAsync();
command.OpenAsync();
```

Answer Area

```
private async Task ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection
        = new EntityConnection("name=ExternalOrdersEntities"))
    {
        command.Connection = connection;
        await connection.OpenAsync();
        await command.QueryAsync();
    }
}
```

Synchronous to Asynchronous Connection Open You can upgrade an existing application to use the new asynchronous feature. For example, assume an application has a synchronous connection algorithm and blocks the UI thread every time it connects to the database and, once connected, the application calls a stored procedure that signals other users of the one who just signed in.

When converted to use the new asynchronous functionality, the program would look like: `await conn.OpenAsync();`
`await cmd.ExecuteNonQuery();`

References: <https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/asynchronous-programming>

QUESTION 12

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 deploy an ASP.NET Core web application to Azure App Services. You are using Azure Event Hubs to collect the telemetry data for the application.

You need to configure Event Hubs to automatically deliver the telemetry data stream to a persistent data store.



Solution: Configure Event Hubs Capture to deliver data to Azure Data Lake Store.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Use Azure Blob storage to store the telemetry data.

References:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-capture-overview>

QUESTION 13

DRAG DROP

The GetExternalOrders() method must use members of the EntityClient namespace to query the database for all records in the InboundQueue entity.

You need to modify the GetExternalOrders() method to return the correct data.

You have the following code:



```
public List<Entitites.InboundQueue> GetExternalOrders ()
{
    EntityConnection connection =
        new EntityConnection ("name = Target 1");
    connection.Open();
    EntityCommand cmd = connection.CreateCommand();
    cmd.CommandText = @ "select q.OrderNum, q.VendorId.
        q.FilePath, q.OrderValue
        from Target 2.InboundQueues as q' ;
    EntityDataReader rdr=
        cmd. Target 3
        (CommandBehavior. Target 4);
    List<InboundQueue> queueItems = new List<InboundQueue> ();
    while (rdr.Read())
    {
        queueItems.OrderNum = Convert.ToInt32 (rdr["OrderNum"]);
        queueItems.VendorId = Convert.ToInt32 (rdr["VendorId"]);
        queueItems.FilePath = rdr["FilePath"].ToString();
        queueItems.OrderValue = Convert.ToDecimal (rdr["OrderValue"]);
        queueItems.Add(queueItem);
    }
    rdr.Close();
    connection.Close();
    return queueItems;
}
```

New EntityConnection EntityDataReader CommandBehavior

Which code segments should you include in Target1, Target2, Target3 and Target4 to complete the code? To answer, drag the appropriate code segments to the correct targets in the answer area. 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.

Select and Place:



Code Segments

ExecuteReader

ExecuteNonQuery

SequentialAccess

SingleResult

ExternalQueueEntities

ExternalOrdersEntities

Answer Area

Target 1: Code Segment

Target 2: Code Segment

Target 3: Code Segment

Target 4: Code Segment

Correct Answer:



Code Segments

ExecuteReader

ExecuteNonQuery

SequentialAccess

SingleResult

ExternalQueueEntities

ExternalOrdersEntities

Answer Area

Target 1: ExternalOrdersEntities

Target 2: ExternalOrdersEntities

Target 3: ExecuteReader

Target 4: SequentialAccess

Box 1, Box 2: ExternalOrdersEntities The GetExternalOrders() method must use members of the EntityClient namespace to query the database for all records in the InboundQueue entity. Box 3: ExecuteReader Box 4: SequentialAccess

QUESTION 14

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 have developed a .NET Standard Library.

You need to produce a NuGet package.



Solution: Run the msbuild command with the pack target specified.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Package the component with the NuGet pack command. The dotnet pack command and msbuild -t:pack may be used as alternates.

References:

<https://docs.microsoft.com/en-us/nuget/tools/cli-ref-pack>

<https://docs.microsoft.com/en-us/nuget/guides/create-net-standard-packages-vs2015>

QUESTION 15

You are developing a web application by using Microsoft .NET Framework 4.5.

You are creating a web client for the application. The web client will make REST calls to several web services.

You need to ensure that the web client meets the following requirements:

Uses the Task class to perform asynchronous operations Reuses recently resolved DNS lookups

Which object should you include in the solution?

A. ServiceClient

B. WebClient

C. HttpClient

D. WebRequest

Correct Answer: C

References: <https://www.c-sharpcorner.com/article/calling-web-api-using-httpclient/>

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