

## Exam Questions 70-487

Developing Windows Azure and Web Services

<https://www.2passeasy.com/dumps/70-487/>



**NEW QUESTION 1**

**HOTSPOT**

You need to deploy the application to the Windows Azure production environment to meet the business requirements. What should you do? (To answer, select the appropriate button in the answer area.)

Name	Type	Environment
Main	Subscription	
Main	Hosted Service	
Certificates	Service Certificate	
Windows Azure Tools	Service Certificate	
Main Deployment	Deployment	Production
MvcWebRole1	Role	Production
MvcWebRole1_IN_0	Instance	Production
Main Deployment - staging	Deployment	Staging
MvcWebRole1	Role	Staging
MvcWebRole1_IN_0	Instance	Staging

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Name	Type	Environment
Main	Subscription	
Main	Hosted Service	
Certificates		
Windows Azure Tools	Service Certificate	
Main Deployment	Deployment	Production
MvcWebRole1	Role	Production
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Main Deployment - staging	Deployment	Staging
MvcWebRole1	Role	Staging
MvcWebRole1_IN_0	Instance	Staging

**NEW QUESTION 2**

You need to recommend a data access technology to the contractor to retrieve data from the new data source. Which data access technology should you recommend?

- A. LINQ to XML
- B. ADO.NET Entity Framework
- C. ADO.NET DataSets
- D. WCF Data Services

Answer: D

**NEW QUESTION 3**

DRAG DROP

Historical flight information data will be stored in Windows Azure Table Storage using the FlightInfo class as the table entity. There are millions of entries in the table. Queries for historical flight information specify a set of airlines to search and whether the query should return only late flights. Results should be ordered by flight name. You need to specify which properties of the FlightInfo class should be used at the partition and row keys to ensure that query results are returned as quickly as possible. What should you do? (To answer, drag the appropriate properties to the correct location or locations in the answer area. Each property 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.)

Answer Area

Airline

Use the

property as the partition key.

WasLate

Use the

property as the row key.

Flight

Arrival

- A. Mastered
- B. Not Mastered

Answer: A

## Explanation:

Answer Area

Airline Use the **Airline** property as the partition key.

Flight Use the **Flight** property as the row key.

WasLate

Arrival

## NEW QUESTION 4

## DRAG DROP

You need to parse flight information from Blue Yonder Airlines. The content of the XML file is shown below.

```
<?xml version="1.0" encoding="utf-8"?>
<AirlineFeed>
  <Flight xmlns="urn:CFI" name="AS515">
    <Seats>123</Seats>
    <Arrival>5/2/2011 12:01:13</Arrival>
  </Flight>
  <Flight name="UN24">
    <Seats>123</Seats>
    <Arrival>5/1/2012 10:17:57 PM +02:00</Arrival>
  </Flight>
  <FlightManifest>
    ...
  </FlightManifest>
</AirlineFeed>
```

Some airlines do not specify the timezone of the arrival time. If the timezone is not specified, then it should be interpreted per the business requirements.

You need to implement the LoadFlights() and Parse() methods of the BlueYonderLoader class.

What should you do? (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.)

.....

```
var flights = feed.Elements(  
    feed.Root.GetPrefixOfNamespace("{urn:CFI}") + "Flight");
```

```
var flights = feed.Descendants().Where(x =>  
    x.NodeType != XmlNodeType.XmlDeclaration && (string)x ==  
    "Flight");
```

```
var flights = feed.Descendants("{urn:CFI}Flight")  
    .Concat(feed.Descendants("Flight"));
```

```
fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
    null, System.Globalization.DateTimeStyles.AssumeUniversal);
```

```
fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
    null, System.Globalization.DateTimeStyles.AdjustToUniversal);
```

```
fi.Arrival = XmlConvert.ToDateTimeOffset(arrivalRaw,  
    new[] { "Local", "Universal" });
```

.....

```
public IEnumerable<FlightInfo> LoadFlights(XDocument feed)
```

```
{
```

```
    .....
```

```
    return flights.Select(x => Parse(x));
```

```
}
```

```
private FlightInfo Parse(XElement flightElement)
```

```
{
```

```
    var fi = new FlightInfo();  
    fi.Flight = flightElement.Attribute("name").Value;  
    var arrivalRaw = flightElement.Element("Arrival").Value;
```

```
    .....
```

```
    fi.Seats = XmlConvert.ToInt32(flightElement.Element("Seats").Value);  
    return fi;
```

```
}
```

- A. Mastered
- B. Not Mastered

Answer: A

## Explanation:

```

public IEnumerable<FlightInfo> LoadFlights(XDocument feed)
{
    var flights = feed.Descendants("(urn:CFI)Flight")
        .Concat(feed.Descendants("Flight"));

    return flights.Select(x => Parse(x));
}

private FlightInfo Parse(XElement flightElement)
{
    var fi = new FlightInfo();
    fi.Flight = flightElement.Attribute("name").Value;
    var arrivalRaw = flightElement.Element("Arrival").Value;

    fi.Arrival = DateTimeOffset.Parse(arrivalRaw,
        null, System.Globalization.DateTimeStyles.AssumeUniversal);

    fi.Seats = XmlConvert.ToInt32(flightElement.Element("Seats").Value);
    return fi;
}

```

## NEW QUESTION 5

Transformed historical flight information provided by the RemoteDataStream() method must be written to the response stream as a series of XML elements named Flight within a root element named Flights. Each Flight element has a child element named FlightName that contains the flight name that starts with the two-letter airline prefix.

You need to implement the StreamHistoricalFlights() method so that it minimizes the amount of memory allocated.

Which code segment should you use as the body of the StreamHistoricalFlights() method in the HistoricalDataLoader.es file?

- A. 

```

responseWriter.WriteStartElement("Flights");
var flights = RemoteDataStream()
    .OrderBy(x => GetAirline(x.Element("FlightName")));
var filteredFlights = flights
    .SkipWhile(x => GetAirline(x.Element("FlightName")) != airline);
foreach (var f in filteredFlights)
{
    var flight = ConvertToHistoricalFlight(f);
    flight.WriteTo(responseWriter);
}
responseWriter.WriteEndElement();

```
- B. 

```

responseWriter.WriteStartElement("Flights");
var flights = RemoteDataStream().Select(x =>
{
    if (GetAirline(x) == airline)
    {
        return ConvertToHistoricalFlight(x);
    }
    return null;
});
flights.TakeWhile(x =>
{
    x.WriteTo(responseWriter);
    return x != null;
});
responseWriter.WriteEndElement();

```
- C. 

```

var data = RemoteDataStream().ToDictionary(x =>
    GetAirline(x.Element("FlightName")),
    x => new XStreamingElement("Flights", ConvertToHistoricalFlight(x).Descendants()));
data[airline].WriteTo(responseWriter);

```
- D. 

```

var flights = new XStreamingElement("Flights",
    from flight in RemoteDataStream()
    where GetAirline(flight.Element("FlightName")) == airline
    select ConvertToHistoricalFlight(flight));
flights.WriteTo(responseWriter);

```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**Explanation:**

<http://msdn.microsoft.com/en-us/library/system.xml.linq.xstreamingelement.aspx> and  
<http://msdn.microsoft.com/en-us/library/bb551307.aspx>

**NEW QUESTION 6**

Errors occasionally occur when saving data using the FlightInfoContext ADO.NET Entity Framework context. Updates to the data are being lost when an error occurs.

You need to ensure that data is still saved when an error occurs by retrying the operation. No more than five retries should be performed.

With which code segment should you replace the body of the SaveChanges() method in the FlightInfoContext.es file?

- A. 

```
var result = FlightInfo.SqlQuery("UPDATE WITH RETRY", FlightInfo, "IsTransient", 5);
if (result.Count() > 5)
{
    result.AsNoTracking();
    return -1;
}
return 0;
```
- B. 

```
try
{
    return base.SaveChanges();
}
catch (EntityCommandExecutionException ex)
{
    if (ex.Data.Keys.Cast<int>().Any(x => IsTransient(x)))
    {
        return 5 & SaveChanges();
    }
    return -1;
}
```
- C. 

```
for (var i = 0; i < 5; i++)
{
    try
    {
        return base.SaveChanges();
    }
    catch (SqlException ex)
    {
        if (IsTransient(ex.Number))
        {
            continue;
        }
    }
}
return base.SaveChanges();
```
- D. 

```
var exception = new EntitySqlException();
while (exception.HResult != 0 && exception.Data.Count < 5)
{
    try
    {
        return base.SaveChanges();
    }
    catch (EntitySqlException ex)
    {
        if (IsTransient(ex.HResult))
        {
            exception = ex;
        }
    }
}
return base.SaveChanges();
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: C

**Explanation:**

EntitySqlException: Represents errors that occur when parsing Entity SQL command text. This exception is thrown when syntactic or semantic rules are violated.  
SqlException: The exception that is thrown when SQL Server returns a warning or error. This class cannot be inherited.  
EntityCommandExecutionException: Represents errors that occur when the underlying storage provider could not execute the specified command. This exception usually wraps a provider-specific exception.

Case Study: 2  
ASP.NET MVC  
Background

You are developing an ASP.NET MVC application in Visual Studio 2012 that will be used to process orders.

Business Requirements

The application contains the following three pages:

? A page that queries an external database for orders that are ready to be processed. The user can then process the order.

? A page to view processed orders.

? A page to view vendor information.

The application consumes three WCF services to retrieve external data.

Technical Requirements Visual Studio Solution:

The solution contains the following four projects.

? ExternalQueue: A WCF service project used to communicate with the external order database.

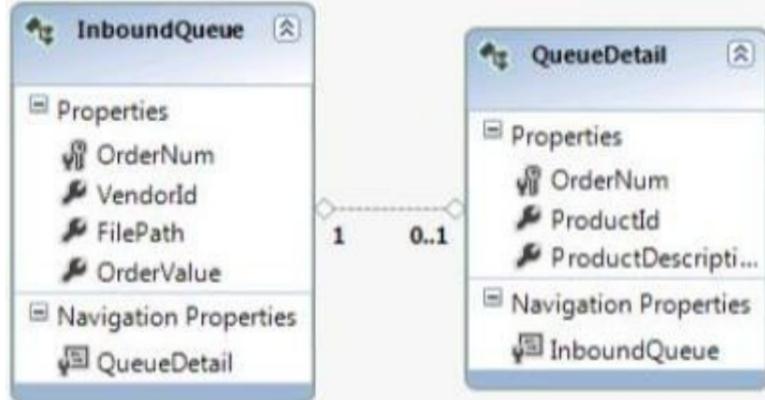
? OrderProcessor: An ASP.NET MVC project used for order processing and logging order metadata.

? OrderUpload: A WCF service project used to submit order data to an external data source.

? Shipping: A WCF service project used to acquire shipping information.

ExternalQueue Project:

Entity Framework is used for data access. The entities are defined in the ExternalOrders.edmx file as shown in the following diagram.



The project contains two services defined in the following files.

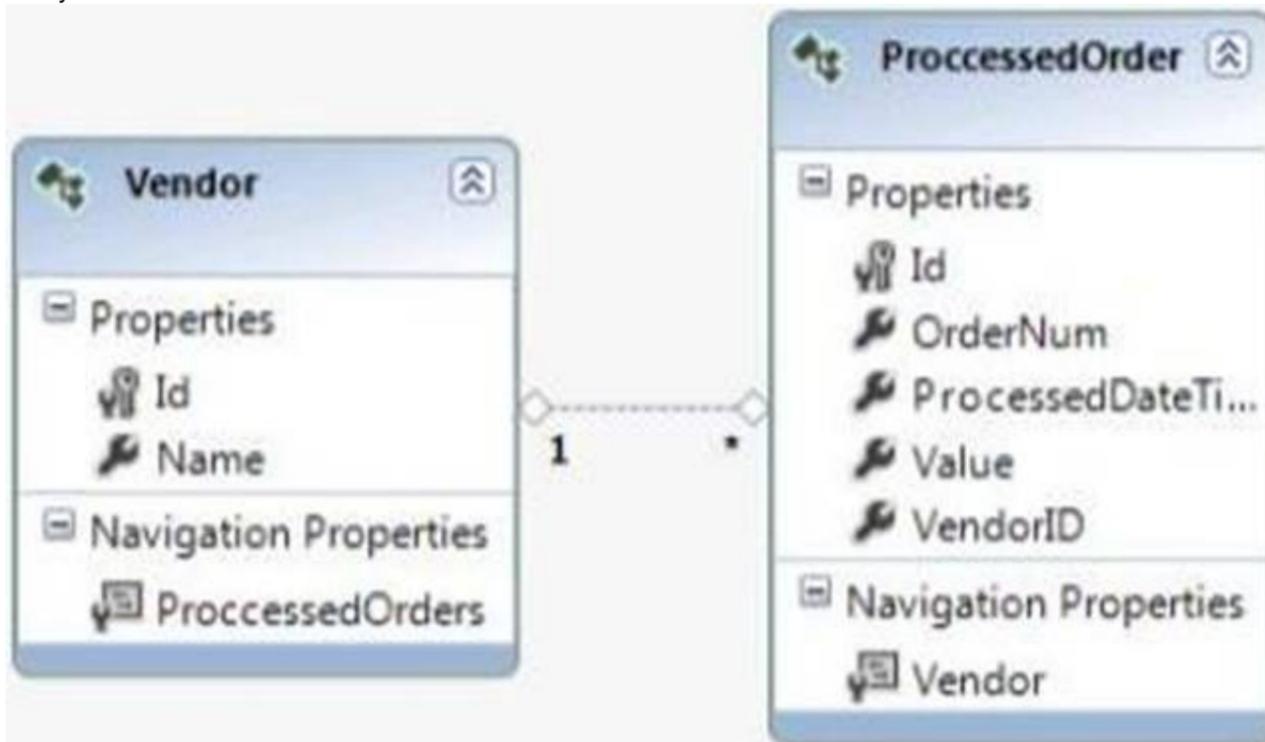
? IExternalQueueService.es

? ExternalQueueService.svc.

The ExternalQueue.Helpers namespace contains a definition for a class named OrderNotFound Exception.

OrderProcessor Project:

Entity Framework is used for data access. The entities are defined in the ProcessedOrders.edmx file as shown in the following diagram.



The classes are contained in the OrderProcessor.Entities namespace. The project contains the following two controllers.

? InboundQueueController.es

? ProcessedOrderController.es

WCF service proxies to the ExternalQueue, Shipping and OrderUpload services have been generated by using the command prompt. The ExecuteCommandProcedure() method in the ExternalQueueService.svc file must run asynchronously.

The ProcessedOrderController controller has the following requirements.

The GetVendorPolicy() method must enforce a 10 minute absolute cache expiration policy. The GetProcessedOrders() method must return a view of the 10 most recently processed orders.

OrderUpload Project:

The project contains two services defined in the following files:

? IUploadCallbackService.es

? UploadCallbackService.svc

Data Access is maintained in a file named UploadOrder.es.

Shipping Project:

Entity Framework is used for data access. The entities are defined in the ExternalOrders.edmx file as shown in the following diagram.



The Custom Tool property for ExternalOrders.edmx has been removed.

POCO classes for the Entity Model are located in the ShippingAddress.es file. The POCO entity must be loaded by using lazy loading.

The project contains two services defined in the following files.

? IShippingService.es

? ShippingService.svc.

The IShippingService contract must contain an operation that receives an order number as a parameter. The operation must return a class named ShippingInfo that inherits from a class named State.

Application Structure

#### ExternalQueue\IExternalQueueService.cs

```

IQ01 using System.Collections.Generic;
IQ02 using System.ServiceModel;
IQ03 using ExternalQueue.Helpers;
IQ04
IQ05 namespace ExternalQueue
IQ06 {
IQ07     [ServiceContract]
IQ08     public interface IExternalQueueService
IQ09     {
IQ10         [OperationContract]
IQ11         List<Entities.InboundQueue> GetExternalOrders();
IQ12
IQ13         [FaultContract(typeof(OrderNotFoundException))]
IQ14         [OperationContract]
IQ15         void DeleteExternalOrder(int orderNum);
IQ16
IQ17         [OperationContract]
IQ18         Entities.InboundQueue GetExternalOrder(int orderNum);
IQ19     }
IQ20 }

```

## OrderProcessor\IExternalQueueService.svc

```
EQ01 using System;
EQ02 using System.Collections.Generic;
EQ03 using System.Linq;
EQ04 using System.Data.EntityClient;
EQ05 using System.Data;
EQ06 using ExternalQueue.Entities;
EQ07 using System.Data.Objects;
EQ08 using ExternalQueue.Helpers;
EQ09 using System.ServiceModel;
EQ10 using System.Threading.Tasks;
EQ11
EQ12 namespace ExternalQueue
EQ13 {
EQ14     public class ExternalQueueService : IExternalQueueService
EQ15     {
EQ16         public List<Entities.InboundQueue> GetExternalOrders()
EQ17         {
EQ18             List<InboundQueue> queueItems = new List<InboundQueue>();
EQ19             return queueItems;
EQ20         }
EQ21
EQ22         public void DeleteExternalOrder(int orderNum)
EQ23         {
EQ24             using (var context = new ExternalOrdersEntities())
EQ25             {
EQ26                 var orders = context.InboundQueues.Where(i => i.OrderNum ==
orderNum).ToList();
EQ27                 if (orders.Count() > 0)
EQ28                 {
EQ29                     using (EntityCommand cmd = new EntityCommand())
EQ30                     {
EQ31                         cmd.CommandText = "ExternalOrdersEntities.uspInboundQueueDelete";
EQ32                         cmd.CommandType = CommandType.StoredProcedure;
EQ33                         EntityParameter param = new EntityParameter();
EQ34                         param.Value = orderNum;
EQ35                         param.ParameterName = "orderNum";
EQ36                         cmd.Parameters.Add(param);
EQ37                         ExecuteCommandProcedure(cmd);
EQ38                     }
EQ39                 }
EQ40                 else
EQ41                 {
EQ42                     OrderNotFoundException ex = new OrderNotFoundException();
EQ43                     ex.OrderNum = orderNum;
EQ44                     ex.ExceptionMessage = "Order not found...Cannot delete";
EQ45                 }
EQ46             }
EQ47         }
EQ48     }
EQ49
EQ50     private void ExecuteCommandProcedure(EntityCommand command)
EQ51     {
EQ52         using (EntityConnection connection = new EntityConnection
("name=ExternalOrdersEntities"))
EQ53         {
EQ54             command.Connection = connection;
EQ55             connection.Open();
EQ56             command.ExecuteNonQuery();
EQ57         }
EQ58     }
EQ59
EQ60     public InboundQueue GetExternalOrder(int orderNum)
EQ61     {
EQ62         using (var context = new ExternalOrdersEntities())
EQ63         {
EQ64             string queryString = string.Empty;
EQ65             ObjectQuery<InboundQueue> query = context.CreateQuery<InboundQueue>
(queryString, new ObjectParameter("orderNum", orderNum));
EQ66             return query.First();
EQ67         }
EQ68     }
EQ69 }
EQ70 }
EQ71 }
```

## ExternalQueue\ProcessedOrderController.cs

```
PC01 using System;
PC02 using System.Collections.Generic;
PC03 using System.Linq;
PC04 using System.Runtime.Caching;
PC05 using System.Web.Mvc;
PC06 using OrderProcessor.Entities;
PC07 using OrderProcessor.Helpers;
PC08 using System.Configuration;
PC09
PC10 namespace OrderProcessor.Controllers
PC11 {
PC12     public class ProcessedOrderController : Controller
PC13     {
PC14         public ActionResult GetProcessedOrders()
PC15         {
PC16             using (var context = new ProcessedOrders())
PC17             {
PC18                 List<Entities.ProcessedOrder> orders = new List<ProcessedOrder>();
PC19                 return View(orders);
PC20             }
PC21         }
PC22
PC23         private ObjectCache cache {get { return MemoryCache.Default; }}
PC24
PC25         public ActionResult GetVendors()
PC26         {
PC27             List<Entities.Vendor> vendors = cache.Get
PC28 ("vendorKey") as List<Entities.Vendor>;
PC29             if (vendors == null)
PC30             {
PC31                 using (var context = new ProcessedOrders())
PC32                 {
PC33                     vendors = context.Vendors.ToList();
PC34                 }
PC35             }
PC36             return View(vendors);
PC37         }
PC38
PC39         private CacheItemPolicy GetVendorPolicy()
PC40         {
PC41             CacheItemPolicy vendorPolicy = new CacheItemPolicy();
PC42
PC43             return vendorPolicy;
PC44         }
PC45
PC46         private List<string> GetTriggerPaths()
PC47         {
PC48             List<string> triggerPath = new List<string>();
PC49             triggerPath.Add(@"c:\triggers\vendorttrigger.txt");
PC50             return triggerPath;
PC51         }
PC52     }
PC53 }
```

## OrderProcessor\InboundQueueController.cs

```
IC01 using System;
IC02 using System.Collections.Generic;
IC03 using System.Web.Mvc;
IC04 using OrderProcessor.Entities;
IC05 using ExternalQueue.Entities;
IC06 using System.ServiceModel;
IC07 using System.Collections;
IC08 using ExternalQueue.Helpers;
IC09 using OrderProcessor.Helpers;
IC10 using System.Linq;
IC11
IC12 namespace OrderProcessor.Controllers
IC13 {
IC14     public class InboundQueueController : Controller
IC15     {
IC16         public ActionResult GetQueueItems()
IC17         {
IC18             IEnumerable<InboundQueue> inboundOrders = Enumerable.Empty<InboundQueue>();
IC19             return View(inboundOrders);
IC20         }
IC21
IC22         public ActionResult ProcessOrder(int orderNum)
IC23         {
IC24             ExternalQueueServiceClient qService = new ExternalQueueServiceClient();
IC25             InboundQueue externalOrder = qService.GetExternalOrder(orderNum);
IC26             if (externalOrder != null)
IC27             {
IC28                 using (var context = new ProcessedOrders())
IC29                 {
IC30                     ProcessedOrder order = new ProcessedOrder();
IC31                     order.OrderNum = externalOrder.OrderNum;
IC32                     order.Value = Convert.ToDouble(externalOrder.OrderValue);
IC33                     order.VendorID = Convert.ToInt32(externalOrder.VendorId);
IC34                     order.ProcessedDateTime = DateTime.Now;
IC35                     context.ProcessedOrders.Add(order);
IC36                     context.SaveChanges();
IC37                 }
IC38                 qService.DeleteExternalOrder(orderNum);
IC39             }
IC40             return RedirectToAction("GetQueueItems");
IC41         }
IC42
IC43         public ActionResult ViewShippingInfo(int orderNum)
IC44         {
IC45             ShippingServiceClient shipService = new ShippingServiceClient();
IC46             var info = shipService.GetShippingInfo(orderNum);
IC47             return View(info);
IC48         }
IC49     }
IC50 }
```

## OrderUpload\IUploadCallbackService.cs

```
IU01 using System.ServiceModel;
IU02
IU03 namespace OrderUpload
IU04 {
IU05     [ServiceContract(CallbackContract = typeof(IUploadCallback))]
IU06     public interface IUploadCallbackService
IU07     {
IU08         [OperationContract]
IU09         void UploadOrder(int orderNum);
IU10     }
IU11
IU12     public interface IUploadCallback
IU13     {
IU14         [OperationContract]
IU15         decimal GetOrderValue(int orderNum);
IU16     }
IU17 }
```

## OrderUpload\UploadCallbackService.svc

```
US01 using System.ServiceModel;
US02
US03 namespace OrderUpload
US04 {
US05     public class UploadCallbackService : IUploadCallbackService
US06     {
US07         public void UploadOrder(int orderNum)
US08         {
US09         }
US10     }
US11 }
```

## Shipping\IShippingService.cs

```
IS01 using System.Runtime.Serialization;
IS02 using System.ServiceModel;
IS03
IS04 namespace Shipping
IS05 {
IS06     public interface IShippingService
IS07     {
IS08     }
IS09 }
IS10 }
```

## Shipping\ShippingAddress.cs

```
SA01 using System.Collections.Generic;
SA02 using System.Data.Objects;
SA03
SA04 namespace Shipping.POCO
SA05 {
SA06     public class ShippingAddress
SA07     {
SA08         public int VendorId { get; set; }
SA09         public string Address { get; set; }
SA10         public string City { get; set; }
SA11         public int StateId { get; set; }
SA12         public string Zip { get; set; }
SA13         public State State { get; set; }
SA14     }
SA15
SA16     public class State
SA17     {
SA18         public int StateId { get; set; }
SA19         public string StateName { get; set; }
SA20         public List<ShippingAddress> ShippingAddresses { get; set; }
SA21     }
SA22 }
```

**NEW QUESTION 7**

## DRAG DROP

The GetVendorPolicy() private method in the ProcessedOrderController controller is returning a CacheItemPolicy object with default values. The returned policy must expire if the external file located at C:\Triggers\VendorTrigger.txt has been modified or the timeout outlined in the technical requirements is reached.

You need to return the policy.

How should you build the method? (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.)

Priority

ChangeMonitors

AbsoluteExpiration

Expiration

DateTime.AddMinutes

DateTime.Now.AddMinutes

**Answer Area**

```
private CacheItemPolicy GetVendorPolicy()
{
    CacheItemPolicy vendorPolicy = new CacheItemPolicy();

    vendorPolicy.

    =  (10);

    vendorPolicy.

    .Add(new HostFileChangeMonitor(GetTriggerPaths()));

    return vendorPolicy;
}
```

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

<http://msdn.microsoft.com/en-us/library/system.runtime.caching.cacheitempolicy.aspx>

#### NEW QUESTION 8

The GetExternalOrder() method in the ExternalQueueService service is throwing a runtime error. The method must query the database for a record that matches the orderNum parameter passed to the method.

You need to modify the queryString string to retrieve the record. With which code segment should you replace line EQ64?

- A. `string queryString = @"SELECT VALUE q FROM ExternalOrdersEntities.InboundQueues AS q WHERE q.OrderNum = @orderNum";`
- B. `string queryString = @"SELECT VALUE * FROM ExternalOrdersEntities.InboundQueues WHERE OrderNum = @orderNum";`
- C. `string queryString = @"SELECT q.OrderNum, q.VendorId, q.FilePath, q.OrderValue FROM ExternalOrdersEntities AS q WHERE q.OrderNum = @orderNum";`
- D. `string queryString = @"SELECT q FROM ExternalOrdersEntities.InboundQueues WHERE q.OrderNum = @orderNum";`

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** C

#### NEW QUESTION 9

The DeleteExternalOrder() method in the ExternalQueueService service is not throwing a FaultException exception as defined by the FaultContractAttribute attribute in the IExternalQueueService.cs file.

You need to throw the FaultException exception.

Which code segments can you insert at line EQ45 to achieve this goal? (Each correct answer presents a complete solution. Chose all that apply)

- A. `throw new FaultException<OrderNotFoundException>(ex.ExceptionMessage);`
- B. `throw new FaultException<OrderNotFoundException>(ex, new FaultReason("Order not found."));`
- C. `throw new FaultException<OrderNotFoundException>(ex);`
- D. `throw new FaultException(new OrderNotFoundException(new Exception(ex.ExceptionMessage)), "Order not found.");`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: BC

**NEW QUESTION 10**

You need to regenerate the service proxies to include task-based asynchronous method signatures. Which command should you use?

- A. `aspnet_regiis.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- B. `svcutil.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- C. `aspnet_compiler.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- D. `aspnet_regiis.exe /t:code http://localhost:62965/UploadService.svc`
- E. `svcutil.exe /t:code http://localhost:62965/UploadService.svc`

Answer: B

**Explanation:**

<http://msdn.microsoft.com/en-us/library/aa347733.aspx>

**NEW QUESTION 10**

**DRAG DROP**

The UploadOrder() method in the UploadCallbackService service is not implementing the callback behavior defined in the IUploadCallBackService interface. You need to modify the class to implement the required callback behavior. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segments 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.)

**Multiple**

**Single**

**GetOrderValue**

**UploadCallbackService**

**IUploadCallback**

**Answer Area**

```

[ServiceBehavior(ConcurrencyMode =
ConcurrencyMode. [ ] )]
public class UploadCallbackService : IUploadCallbackService
{
public void UploadOrder(int orderNum)
{
[ ] callback = OperationContext
.Current.GetCallbackChannel< [ ] >();
decimal value = callback.[ ](orderNum);
UploadDB.UploadOrder.Upload(orderNum, value);
}
}
                    
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

```
[ServiceBehavior (ConcurrencyMode =  
    ConcurrencyMode.Single )]  
  
public class UploadCallbackService : IUploadCallbackService  
{  
    public void UploadOrder(int orderNum)  
    {  
        IUploadCallback callback = HttpContext  
            .Current.GetCallbackChannel< IUploadCallback >();  
        decimal value = callback.GetOrderValue(orderNum);  
  
        UploadDB.UploadOrder.Upload(orderNum, value);  
    }  
}
```

Case Study: 3,  
Online Bookstore  
Background

You are developing an online bookstore web application that will be used by your company's customers.

Technical Requirements

General requirements:

? The web store application must be an ASP.NET MVC application written in Visual Studio.

? The application must connect to a Microsoft SQL database.

? The GetTop100Books() method is mission critical and must return data as quickly as possible. It should take advantage of fast, forward-only, read-only methods of reading data.

? The ImportBooks() method must keep a copy of the data that can be accessed while new books are being imported without blocking reads.

? The Create MonthlyTotalsReport() method must lock the data and prevent others from updating or inserting new rows until complete.

? The college textbook area of the web application must get data from a daily updated CSV file.

? The children's book area of the web application must get data directly from a local database. It must use a connection string. It must also support access to the stored procedures on the database. Further, it is required to have strongly typed objects. Finally, it will require access to databases from multiple vendors and needs to support more than one-to-one mapping of database tables.

? The cookbook functionality is contained within a client-side application that must connect to the server using HTTP and requires access to the data using JavaScript.

? The BookApiController class must have a method that is able to perform ad-hoc queries using OData.

The RESTful API of the bookstore must expose the following endpoints.

**Action: Get a list of all books**

HTTP method: GET

Relative URI: /books

**Action: Get a book by id**

HTTP method: GET

Relative URI: /books/id

**Action: Create a new book**

HTTP method: POST

Relative URI: /books

**Action: Update a book**

HTTP method: PUT

Relative URI: /books/id

**Action: Delete a book**

HTTP method: DELETE

Relative URI: /books/id

Application Structure

```
public class Book
{
    public int Id { get; set; }
    public string Name { get; set; }
    public string Title { get; set; }
    public decimal Price { get; set; }
    public DateTime PublishDate { get; set; }
    public int Sales { get; set; }
    public static void SaveFeaturedBooks(IEnumerable<Book> books, string file)
    {
        ...
    }
}

public class BookApiController : ApiController
{
    private readonly IBookRepository bookRepository;
    public BookApiController(IBookRepository bookRepository)
    {
        this.bookRepository = bookRepository;
    }
    public List<Book> Get(int id)
    {
        var book = bookRepository.Find(id);
        if (book == null)
        {
            throw new HttpResponseException(HttpStatusCode.NotFound);
        }
        return new List<Book> { book };
    }
    public HttpResponseMessage Post(Book value)
    {
        if (ModelState.IsValid)
        {
            bookRepository.InsertOrUpdate(value);
            bookRepository.Save();
            var response = new HttpResponseMessage(HttpStatusCode.Created);
            string uri = Url.Route(null, new { id = value.Id });
            response.Headers.Location = new Uri(Request.RequestUri, uri);
            return response;
        }
        throw new HttpResponseException(HttpStatusCode.BadRequest);
    }
    public HttpResponseMessage Put(int id, Book value)
    {
```

```
{
    if (ModelState.IsValid)
    {
        bookRepository.InsertOrUpdate(value);
        bookRepository.Save();
        return new HttpResponseMessage(HttpStatusCode.NoContent);
    }
    throw new HttpResponseException(HttpStatusCode.BadRequest);
}
public void Delete(int id)
{
    var book = bookRepository.Find(id);
    if (book == null)
    {
        throw new HttpResponseException(HttpStatusCode.NotFound);
    }
    bookRepository.Delete(id);
}
}

...

private static void ImportBooks()
{
    using (SqlConnection connection = new SqlConnection(_connectionString))
    {
        connection.Open();
        SqlCommand command = connection.CreateCommand();
        SqlTransaction transaction = connection.BeginTransaction();
        command.Connection = connection;
        command.Transaction = transaction;
        try
        {
            command.CommandText = _commandText;
            command.ExecuteNonQuery();
            transaction.Commit();
        }
        catch (Exception ex)
        {
            transaction.Rollback();
        }
    }
}
```

```
private static void CreateMonthlyTotalsReports()
{
    using (SqlConnection connection = new SqlConnection(_connectionString))
    {
        connection.Open();
        SqlCommand command = connection.CreateCommand();
        SqlTransaction transaction = connection.BeginTransaction();
        command.Connection = connection;
        command.Transaction = transaction;
        try
        {
            command.CommandText = _reportCommandText;
            command.ExecuteNonQuery();
            transaction.Commit();
        }
        catch (Exception ex)
        {
            transaction.Rollback();
        }
    }
}
```

PurchaseOrders.xml

```
<?xml version="1.0"?>
<aw:PurchaseOrder
    aw:PurchaseOrderNumber="99503"
    aw:OrderDate="1999-10-20"
    xmlns:aw="http://www.adventure-works.com">
    <aw:Address aw:Type="Shipping">
        <aw:Name>Ellen Adams</aw:Name>
        <aw:Street>123 Maple Street</aw:Street>
        <aw:City>Mill Valley</aw:City>
        <aw:State>CA</aw:State>
        <aw:Zip>10999</aw:Zip>
        <aw:Country>USA</aw:Country>
    </aw:Address>
    <aw:Address aw:Type="Billing">
        <aw:Name>Tai Yee</aw:Name>
        <aw:Street>8 Oak Avenue</aw:Street>
        <aw:City>Old Town</aw:City>
        <aw:State>PA</aw:State>
        <aw:Zip>95819</aw:Zip>
        <aw:Country>USA</aw:Country>
    </aw:Address>
    <aw:DeliveryNotes>Please leave packages in shed by driveway.</aw:DeliveryNotes>
    <aw:Items>
        <aw:Item aw:PartNumber="872-AA">
            <aw:ProductName>Lawnmower</aw:ProductName>
            <aw:Quantity>1</aw:Quantity>
            <aw:USPrice>148.95</aw:USPrice>
            <aw:Comment>Confirm this is electric</aw:Comment>
        </aw:Item>
        <aw:Item aw:PartNumber="926-AA">
            <aw:ProductName>Baby Monitor</aw:ProductName>
            <aw:Quantity>2</aw:Quantity>
            <aw:USPrice>39.98</aw:USPrice>
            <aw:ShipDate>1999-05-21</aw:ShipDate>
        </aw:Item>
    </aw:Items>
</aw:PurchaseOrder>
```

FeaturedBooks.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<featured>
  <book>
    <id>1</id>
    <title>Science</title>
  </book>
  <book>
    <id>1</id>
    <title>Math</title>
  </book>
  <book>
    <id>1</id>
    <title>History</title>
  </book>
</featured>
```

**NEW QUESTION 12**

You need to choose the appropriate data access technology for the children's book area of the web application. Which data access technology should you choose?

- A. Web Service
- B. LINQ to SQL
- C. ADO.NET Entity Framework
- D. WCF Data Services

**Answer:** C

**NEW QUESTION 16**

You need to choose the appropriate data access strategy for the college textbook area of the web application. Which data access technology should you implement?

- A. ADO.NET
- B. Entity Data Model (EDM)
- C. WCF Data Services
- D. LINQ to SQL

**Answer:** A

**Explanation:**

- \* Scenario: The college textbook area of the web application must get data from a daily updated CSV file.
- \* ADO.NET reads the CSV file in a very similar way as table in database.

**NEW QUESTION 20**

You are preparing to write the data access code for the children's book area of the web site. You need to review the requirements and identify the appropriate data access technology. What should you do?

- A. Use ADO.NET Entity Framework.
- B. Use a Web Service.
- C. Use the WCF Data Services.
- D. Use LINQ to SQL.

**Answer:** A

**NEW QUESTION 22**

The PurchaseOrders.xml file contains all of the purchase orders for the day. You need to query the XML file for all of the billing addresses. Which code segment should you use?

- A. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- B. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- C. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- D. 

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: D

#### NEW QUESTION 23

You need to create an OData filter expression that returns books that match the following characteristics:

? Published after 1/1/2000

? Have "Science" as the first word

Which filter statement should you use?

- A. 

```
/books?$filter=PublishDate greaterthan datetime'2000-1-1'
and startswith(Title, 'Science')
```
- B. 

```
/search?$filter=PublishDate greaterthan datetime'2000-1-1'
and beginswith (Title, 'Science')
```
- C. 

```
/search?$filter=PublishDate gt datetime'2000-1-1'
and beginswith(Title, 'Science')
```
- D. 

```
/books?$filter=PublishDate gt datetime'2000-1-1'
and startswith(Title, 'Science')
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

**Explanation:**

\* gt  
 Greater than Example:  
 filter= Entry\_No gt 610  
 Query on GLEntry service. Returns entry numbers 611 and higher.  
 \* startswith filter=startswith(Name, 'S')  
 Query on Customer service. Returns all customers names beginning with "S".

**NEW QUESTION 27**

You need to implement the Get() method in the bookstore Web API application to be able to find books by using an ad hoc query. Which method should you use?

- A. 

```
public Book Get(int id)
{
    var book = bookRepository.Find(id);
    if (book == null)
    {
        throw new HttpResponseException(HttpStatusCode.NotFound);
    }
    return new List<Book> { book };
}
```
- B. 

```
public List<Book> Get(int id)
{
    var book = bookRepository.Find(id);
    if (book == null)
    {
        throw new HttpResponseException(HttpStatusCode.NotFound);
    }
    return new List<Book> { book };
}
```
- C. 

```
public IEnumerable<Book> Get()
{
    return bookRepository.All;
}
```
- D. 

```
public IQueryable<Book> Get()
{
    return bookRepository.All;
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

**NEW QUESTION 30**

DRAG DROP

You need to update the GetBook() method to retrieve book data by using ADO.NET. You have the following code:

```
public Book GetBook(int id)
{
    using (var conn = new SqlConnection(_connectionString))
        using (var cmd = conn.CreateCommand())
    { Target 1
    cmd.CommandText = Target 2
    Target 3
    using (var reader = cmd.ExecuteReader ())
    {
        if (!reader.Read())
        {
            return null;
        }
        return new Book
        { Target 4
        Name = Target 5
        };
    }
    }
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 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.)

**Code Segments**

```
conn.Open();
conn.Read();
"SELECT id, name FROM Books WHERE id = @id";
"SELECT id, name FROM Books WHERE id = id";
cmd.Parameters.AddWithValue("@id", id);
cmd.Parameters.AddWithValue("@id", "id");
Id = reader.GetInt32(reader.GetOrdinal("id"));
Id = reader.GetGuid(reader.GetOrdinal(@id));
reader.GetString(reader.GetOrdinal("name"));
reader.GetString(reader.GetOrdinal(@name))
```

**Answer Area**

Target 1:  
Code Segment

Target 2:  
Code Segment

Target 3:  
Code Segment

Target 4:  
Code Segment

Target 5:  
Code Segment

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Target 1:  
conn.Open();

Target 2:  
"SELECT id, name FROM Books WHERE id = id";

Target 3:  
cmd.Parameters.AddWithValue("@id", id);

Target 4:  
Id = reader.GetGuid(reader.GetOrdinal(@id));

Target 5:  
reader.GetString(reader.GetOrdinal(@name))

**NEW QUESTION 35**

You need to compile CarBusinesLogic.dll by using Microsoft Visual Studio. Which attribute should you add before you compile the dynamic-link library (DLL)?

- A. System.Reflection.AssemblyConfigurationAttribute
- B. System.Reflection.AssemblyKeyFileAttribute
- C. AssemblyFlagsAttribute
- D. System.Reflection.AssemblyAlgorithmIdAttribute

**Answer:** B

**Explanation:**

Scenario: The CarBusinessLogic.dll assembly must be strongly-named. One way to sign an assembly with a strong name is by using assembly attributes to insert the strong name information into your code. You can use either the AssemblyKeyFileAttribute or the AssemblyKeyNameAttribute attribute, depending on where the key file to be used is located. Note: To sign an assembly with a strong name by using attributes References: [https://msdn.microsoft.com/en-us/library/xc31ft41\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/xc31ft41(v=vs.110).aspx)

**NEW QUESTION 36**

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

**Answer:** C

**Explanation:**

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-bus-performance-improvements>

**NEW QUESTION 40**

DRAG DROP

ReportApp will shut down every night. However, data from the searches performed during the night must still be collected. You need to identify the return types for the car year, price, brand and model. The solution must minimize the number of round trips between the clients and the web servers. What should you identify? To answer, drag the appropriate return types to the correct objects. Each return 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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Note: A round trip occurs when an object is deserialized and re-serialized in one operation. From scenario: The application will provide users with the ability to search for a car by using advanced filtering options, such as the car brand, model, year, and price. All of this information will be stored as strings and will be displayed as drop-down lists. The brand and model lists that will be displayed on the home page of the web application will be retrieved from Windows Communication Foundation (WCF) services hosted in the on- premises environment. Target 1: Task<String> Though Performance blocking and Sluggishness are the tailbacks for any application, we can easily overcome these bottlenecks by using asynchronous programming. But old-style practice for asynchronous programming is not way easy enou Target 2: Task<String> Target 3: String Target 4: String References: <https://rashimuddin.wordpress.com/2013/05/07/task-based-asynchronous-operation-in-wcf/>

**NEW QUESTION 41**

DRAG DROP

You need to build the connection from ReportApp to read the search dat

- A. Mastered
- B. Not Mastered

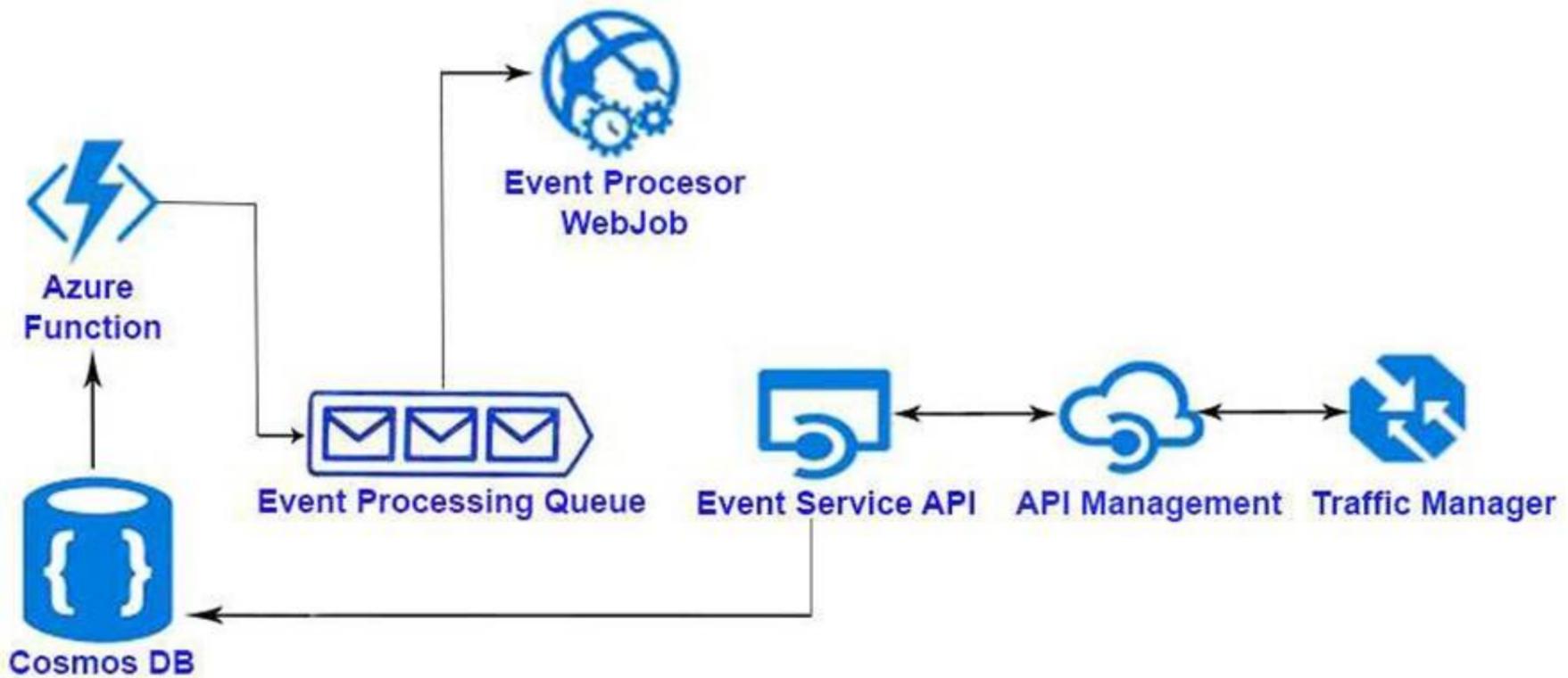
**Answer:** A

**Explanation:**

References: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-dotnet-get-started-with-queues> <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions> Case Study: 5 Trey Research Inc

Overview

Trey Research Inc. is a Software-as-a-Service (SaaS) company that provides hosted solutions for business partners around the world. The company is developing a solution that will allow business partners to manage events, including shareholder meetings and trade shows. You hold meetings with key partners to identify requirements and constraints for the solution. You must minimize costs where possible. You work with an Azure solutions architect to design the logical structure for the solution. The solution will use the following architecture:



Solution components

The solution will use Azure Traffic Manager to distribute traffic. The solution will use API Management to provide caching for the Event Service. Partner companies will interact with the solution by using the Event Service API. This API will be implemented as an ASP.NET Core Web API that runs as an Azure Web App. Event data will be stored in Cosmos DB using the Document API.

The solution will be highly available. You define regional Azure outages as periods of 60 seconds or more where the Event Service is not available.

An Azure WebJob named EventJob will be deployed with the Event Service Web App. The WebJob:

- ?Creates new computed events when partner events are created.
- ?Must be active whenever the Event Service is running.
- ?Is updated once a quarter.

Trey Research Inc. has developer teams that work with a variety of operating systems including Windows, Linux, and MacOS.

Event Service

Individual events must be immutable. Event data can be up to 800 kilobytes (KB) in size. The Event Service must meet the following requirements:

- ?Use REST-based design
- ?Cache data whenever possible.
- ?Support both JSON and XML-based data.
- ?Log customer information whenever data is modified.
- ?Include the X-Customer header in all calls to identify the partner. Regional access to the Event Service API

Data for partners in Germany and Brazil must be served from Azure datacenters in their respective geographies unless there is a regional Azure outage. All other partners must use the US West Azure datacenter.

Testing

All testing must interact directly with the Web App backend. Automated testing of the solution is performed using a remote third-party testing solution.

Event data

You identify the following requirements for the event data store:

- ?Each partner's event data must be stored in a Collection that is specific to the partner.
- ?Event data must be available if a regional Azure outage occurs.
- ?Event read and write operations for a single partner must always store events in the correct order.

Event API

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

**Event.cs**

```

EE01 public class Event
EE02 {
EE03     public string Name { get; set; }
EE04 }
  
```

**IEventDB**

```

IE01 public interface IEventDB
IE02 {
IE03     IEnumerable<Event> LoadEvents();
IE04     void SaveEvent (Event @event);
IE05     string CurrentCustomer { get; set; }
IE06 }
  
```

**EventDB.cs**

```
ED01 public class EventDB : IEventDB
ED02 {
ED03     private DocumentClient client;
ED04     public IEnumerable<Event> LoadEvents ()
ED05     {
ED06         . . .
ED07     }
ED08     public void SaveEvent(Event @event)
ED09     {
ED10         . . .
ED11     }
ED12     public string CurrentCustomer { get; set; }
ED13 }
```

**EventController.cs**

```
EC01 [Route("api/events")]
EC02 public class EventsController : Controller
EC03 {
EC04     public IFileProvider FileProvider { get; }
EC05     public IEventDB EventDB { get; }
EC06     public EventsController(IFileProvider fileProvider, IEventDB eventDB)
EC07     {
EC08         FileProvider = fileProvider;
EC09         EventDB = eventDB;
EC10     }
EC11
EC12     [HttpGet]
EC13     public IEnumerable<Event> GetEvents()
EC14     {
EC15         return EventDB.LoadEvents();
EC16     }
EC17
EC18
EC19 }
```

Event processing

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

**Program.cs**

```
PR01 using System
PR02 using System.Collections.Generic;
PR03 using System.Linq;
PR04 using System.Text;
PR05 using System.Threading.Tasks;
PR06 using Microsoft.Azure.WebJobs;
PR07 namespace EventJob
PR08 {
PR09     class Program
PR10     {
PR11         static void Main()
PR12         {
PR13             var config = new JobHostConfiguration();
PR14             var host = new JobHost(config);
PR15             host.RunAndBlock();
PR16         }
PR17     }
PR18 }
```

**ComputedEventProcessor.cs**

```
CE01 public class ComputedEventProcessorBebJob
CE02 {
CE03     public static void ProcessQueueMessage ([QueueTrigger ("eventprocess")] string message, TextWriter log)
CE04     {
CE05         . . .
CE06     }
CE07 }
```

Middleware Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

**CustomerMiddleware.cs**

```
CM01 public class CustomerMiddleware
CM02 {
CM03     private readonly RequestDelegate _next;
CM04     public CustomerMiddleware (RequestDelegate next)
CM05     {
CM06         _next = next;
CM07     }
CM08     public async Task Invoke(HttpContext httpContext, IEventDB store)
CM09     {
CM10         var user = httpContext.Request.Headers["X-Customer"];
CM11         store.CurrentCustomer = user;
CM12         await _next(httpContext);
CM12     }
CM14 }
```

**NEW QUESTION 46**

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 need to ensure that testing, development, and end user access requirements are met. Solution: Move the Web App backend to a private VNet.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Scenario: All testing must interact directly with the Web App backend. Automated testing of the solution is performed using a remote third-party testing solution.

**NEW QUESTION 49**

You need to configure DNS for the Event service. How many DNS entries should you create?

- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** C

**Explanation:**

Scenario: Regional access to the Event Service API

Data for partners in Germany and Brazil must be served from Azure datacenters in their respective geographies unless there is a regional Azure outage. All other partners must use the US West Azure datacenter.

**NEW QUESTION 54**

DRAG DROP

You need to add code at line SU10 to ensure that event validation can occur.

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 split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Code Segments**

- DirectoryInfo
- IFileProvider
- IFileInfo
- PhysicalFileProvider
- EmbeddedFileProvider
- CompositeFileProvider
- IHostingEnvironment
- IApplicationBuilder

**Answer Area**

```
services.AddSingleton< Code Segment , Code Segment >(sp=>
{
    return new Code Segment (sp.GetService< Code Segment >().ContentRootPath);
});
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Answer Area**

```
services.AddSingleton< IApplicationBuilder , IHostingEnvironment >(sp=>
{
    return new IApplicationBuilder (sp.GetService< IHostingEnvironment >().ContentRootPath);
});
```

Case Study: 6 Mix Questions

**NEW QUESTION 59**

DRAG DROP

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

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

{ "Name ":" Fabrikam", "Vendor Id": 9823, "Items": ["Apples", "Oranges"] } 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.)

Answer Area

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

"Fabrikam", VendorNumber = 9823,

"Fabrikam", VendorNumber = "9823",

new List<string> { "Apples", "Oranges" }

new List<string> { "Apples, Oranges" }

return new List<string>

return new

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: return new List<string>

Box 2: "Fabrikam", VendorNumber=9823, Box 3: new list<string>{"Apples", "oranges"}

**NEW QUESTION 62**

You are developing an ASP.NET MVC web application that contains the following HTML.

<table id= "customer" ></table>

You also have an ASP.NET Web API application that contains a call for retrieving customers. You must send and retrieve the data in the most compact format possible.

You need to update the HTML for the customers table to contain data from the Web API application.

Which script segment should you use?

- A. 

```
<script>
    $(function () {
        var $customers = $("#customers");
        $.ajax({
            url: "api/customers",
            dataType: "json",
            success: function (data) {
                ...
            }
        });
    });
</script>
```
- B. 

```
<script>
    $(function () {
        var $customers = $("#customers");
        $.xml({
            url: "api/customers",
            dataType: "ajax",
            success: function (data) {
                ...
            }
        });
    });
</script>
```
- C. 

```
<script>
    $(function () {
        var $customers = $("#customers");
        $.json({
            url: "api/customers",
            dataType: "ajax",
            success: function (data) {
                ...
            }
        });
    });
</script>
```
- D. 

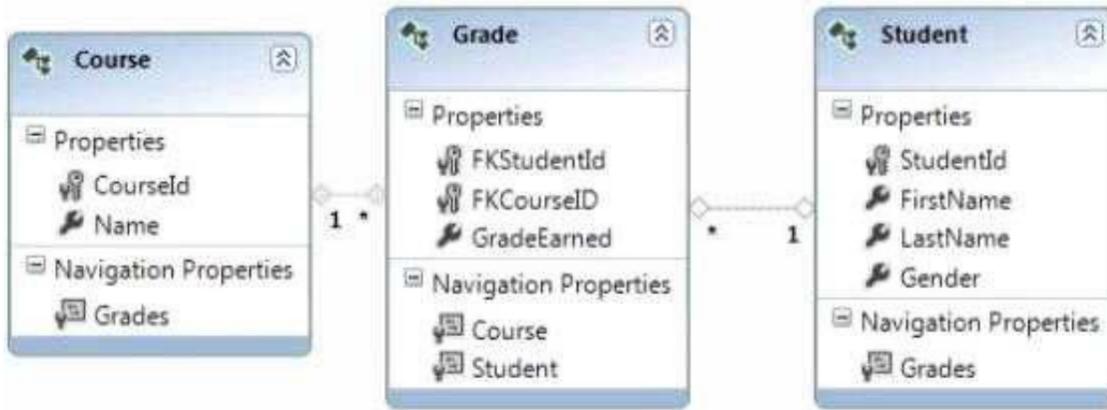
```
<script>
    $(function () {
        var $customers = $("#customers");
        $.ajax({
            url: "api/customers",
            dataType: "xml",
            success: function (data) {
                ...
            }
        });
    });
</script>
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: A

**NEW QUESTION 64**

You are developing an application in Visual Studio 2012 to display student information. The application contains the following Entity Framework model.



The application contains a WCF data service named DirectoryService.svc.

You need to create a query expression to display all of the grades for students whose first name is "John". How should you build the expression?

- A. `http://localhost:54946/DirectoryService.svc/Students?$filter=FirstName eq 'John' &$expand=Grades`
- B. `http://localhost:54946/DirectoryService.svc/Students?$filter=FirstName eq 'John'/Grades`
- C. `http://localhost:54946/DirectoryService.svc/Students?$filter=FirstName = 'John' &$expand=Grades`
- D. `http://localhost:54946/DirectoryService.svc/Grades/Students?$filter=FirstName eq 'John'`

**Answer:** A

**NEW QUESTION 67**

DRAG DROP

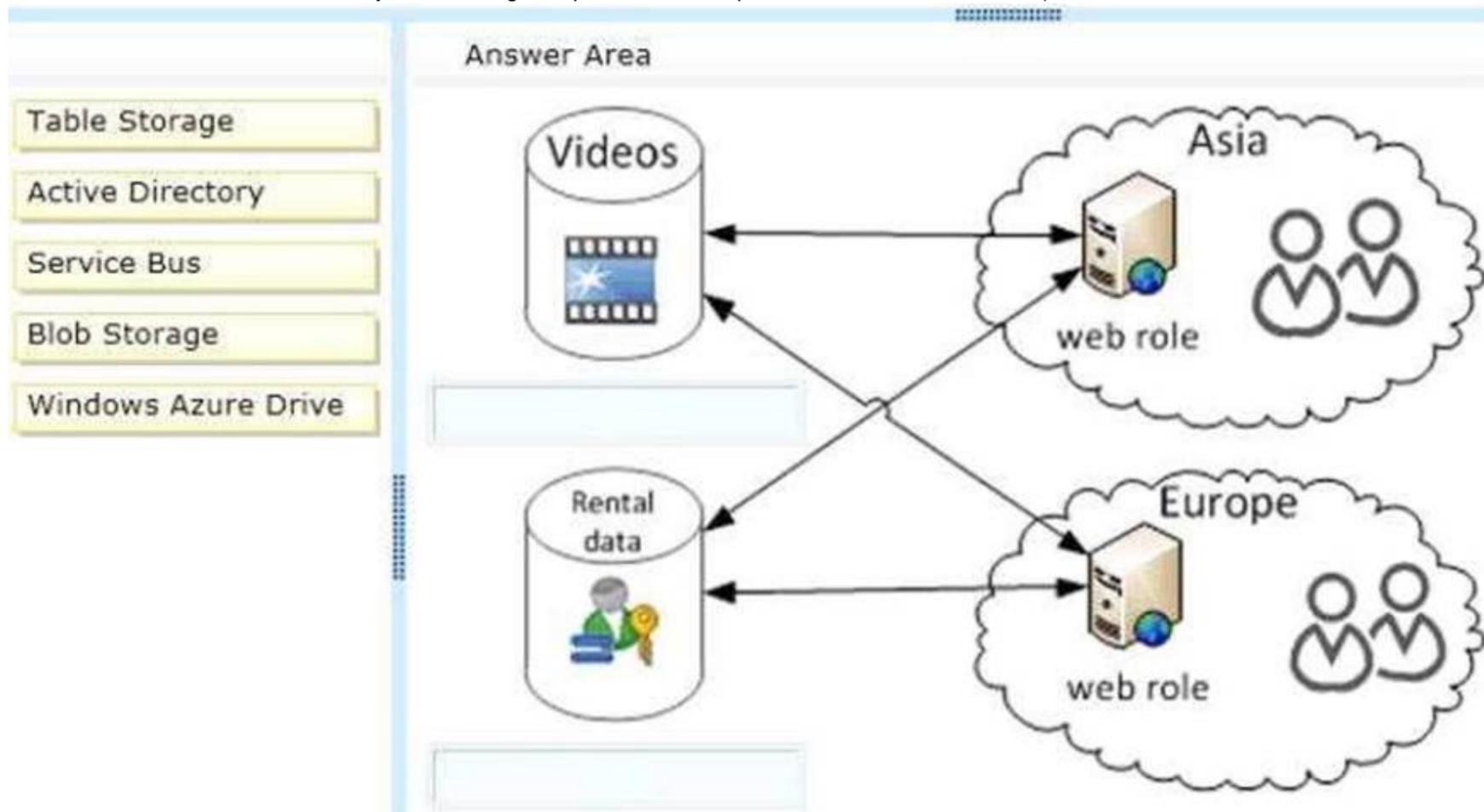
You are developing a Windows Azure based web application that provides users the ability to rent training videos. The application is deployed to hosted services in Asia and Europe.

The web application must meet the following requirements:

- ?Video files are large and must be able to be streamed.
- ?Streaming videos requires low latency network connections.
- ?Rental data contains structured information about the user and the video.
- ?Rental permissions are checked every five seconds during video playback.

You need to recommend a storage architecture for the application.

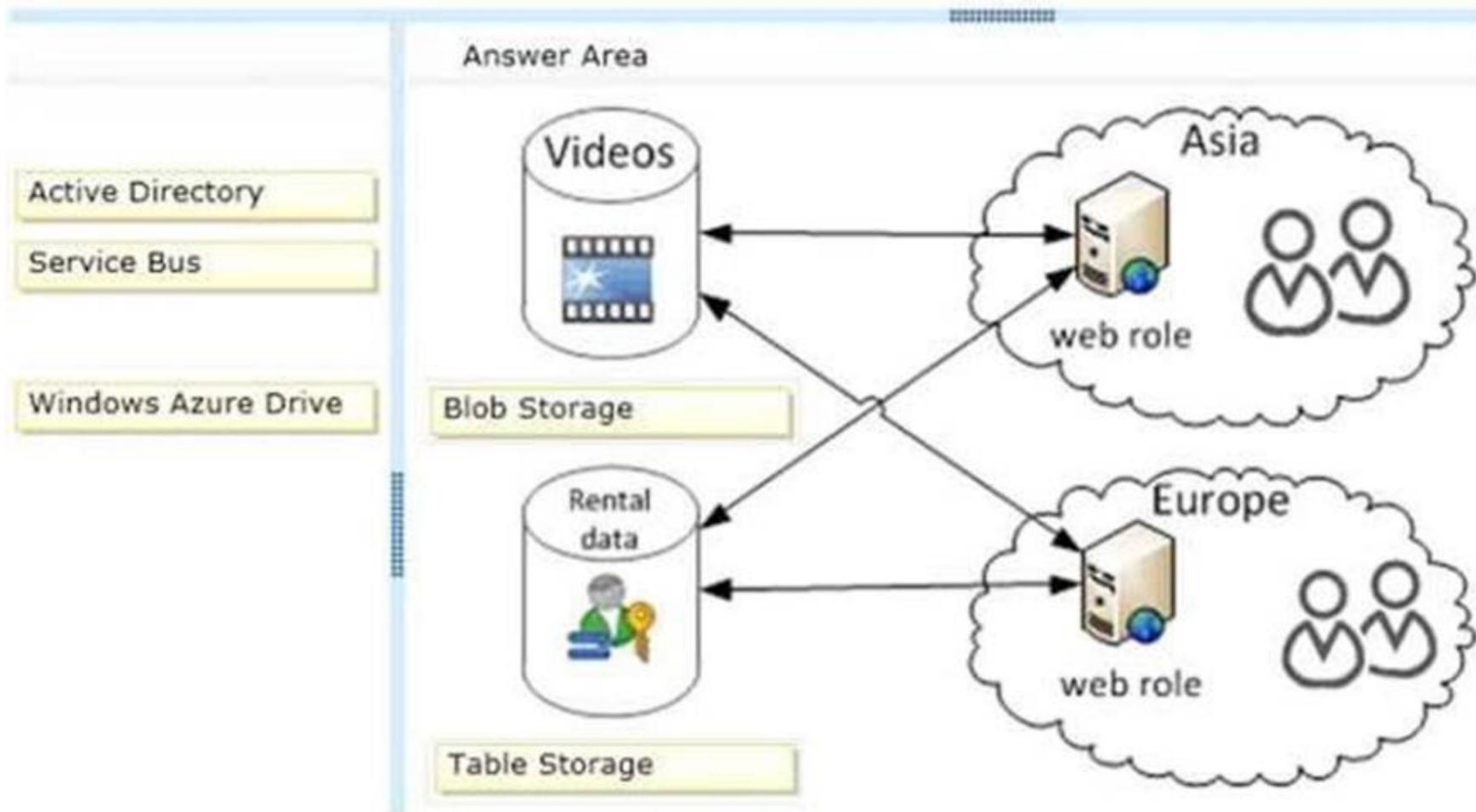
What should you do? (To answer, drag the appropriate technologies to the correct location or locations in the answer area. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 72**

You are developing a WCF service.  
 A new service instance must be created for each client request. You need to choose an instancing mode.  
 Which instancing mode should you use?

- A. Single
- B. PerRequest
- C. PerCall
- D. Multiple
- E. PerSession

**Answer: C**

**NEW QUESTION 74**

DRAG DROP

You are creating a WCF service.  
 The service endpoints must be exposed to the Windows Azure Service Bus. The service bus has a namespace named RestaurantSB. The key provider is "owner".  
 You need to modify the web.config file to expose the endpoints.  
 How should you modify the file? (To answer, drag the appropriate attributes to the correct location or locations in the answer area. Each attribute 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.)

Answer Area

issuerName

Contract

issuerKey

User

issuerSecret

```

<services>
  <service name="RestaurantService.MenuService">

    <endpoint  ="RestaurantService.IMenuService"

      binding="netTcpRelayBinding"
      address="sb://RestaurantServiceBus.servicebus.windows.net/Menu"
      behaviorConfiguration="sbBehavior"/>
    </service>
  </services>
  <behaviors>
    <endpointBehaviors>
      <behavior name="sbBehavior">
        <transportClientEndpointBehavior>
          <tokenProvider>
            <sharedSecret
               ="owner"

               ="!oAFgNsbaN8+UIN737K="/>

          </tokenProvider>
        </transportClientEndpointBehavior>
      </behavior>
    </endpointBehaviors>
  </behaviors>

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

<services>
  <service name="RestaurantService.MenuService">

    <endpoint Contract  ="RestaurantService.IMenuService"

      binding="netTcpRelayBinding"
      address="sb://RestaurantServiceBus.servicebus.windows.net/Menu"
      behaviorConfiguration="sbBehavior"/>
    </service>
  </services>
  <behaviors>
    <endpointBehaviors>
      <behavior name="sbBehavior">
        <transportClientEndpointBehavior>
          <tokenProvider>
            <sharedSecret
              issuerName  ="owner"

              issuerSecret  ="!oAFgNsbaN8+UIN737K="/>

          </tokenProvider>
        </transportClientEndpointBehavior>
      </behavior>
    </endpointBehaviors>
  </behaviors>

```

NEW QUESTION 76

DRAG DROP

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.)

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: return new List<string>

Box 2: "Fabrikam", VendorNumber=9823, Box 3: new list<string>{"Dogs", "Cats"}

**NEW QUESTION 78**

You are designing an ASP.NET Web API application.

You need to select an HTTP verb to allow blog administrators to remove a comment. Which HTTP verb should you use?

- A. PUT
- B. DELETE
- C. POST
- D. GET

Answer: B

**NEW QUESTION 82**

You are developing an ASP.NET MVC application that reads and writes data from a SQL Server database.

You need to maintain data integrity in all situations that use transactions.

- A. ReadUncommitted
- B. Repeatable
- C. Serializable
- D. ReadCommitted

Answer: C

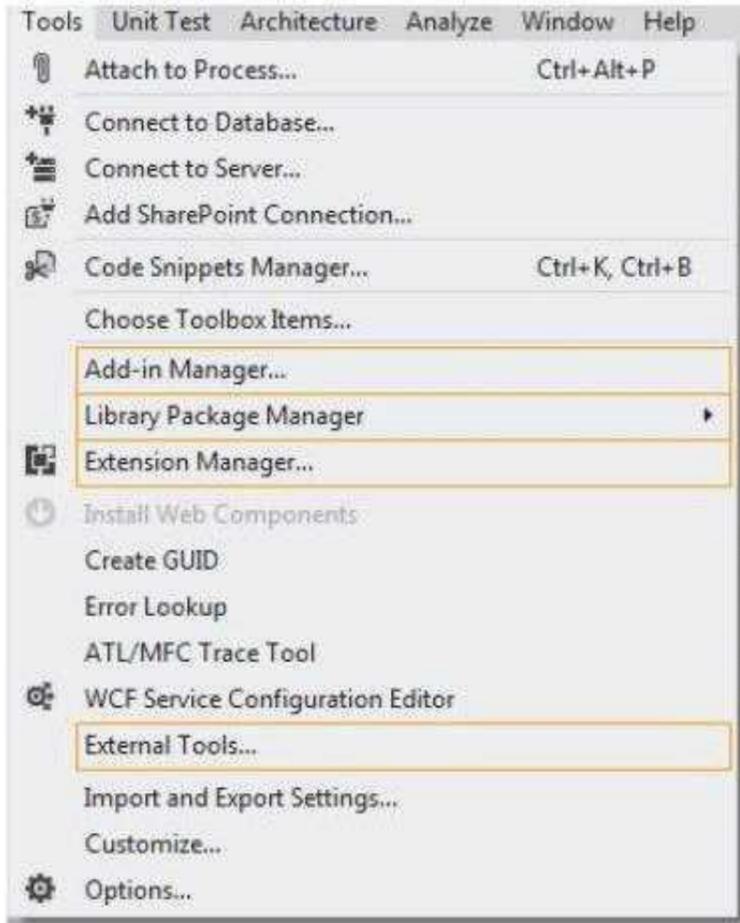
**NEW QUESTION 83**

**HOTSPOT**

You are supporting an application that uses the ADO.NET Entity Framework to query and access data.

The latest version of Entity Framework contains bug fixes that will improve performance. You need to update Entity Framework.

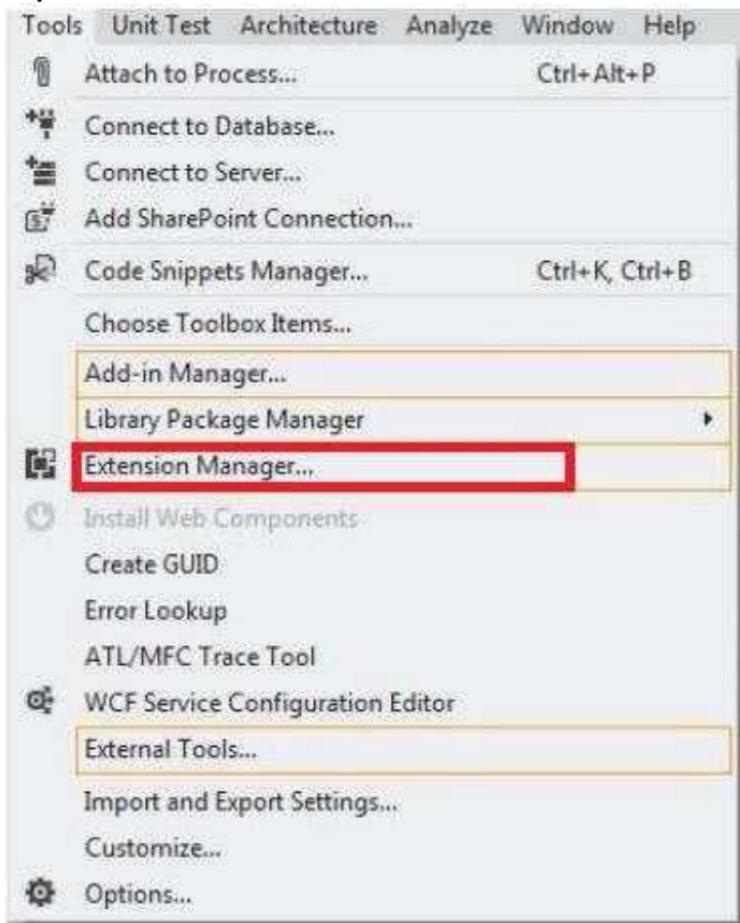
Which Visual Studio 2012 menu item should you choose? (To answer, select the appropriate menu item in the answer area.)



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**



**NEW QUESTION 85**

You are developing an ASP.NET MVC application that displays a report. The report includes large images that are stored in a database. Members of the EntityClient namespace are used to access the database through the ADO.NET Entity Framework data model. You need to prevent memory exceptions while generating a report using the EntityDataReader type. Which CommandBehavior type should you use?

- A. FastForwardReadOnly
- B. SequentialAccess
- C. SingleResult
- D. SingleRow

Answer: B

**Explanation:**

SequentialAccess

Provides a way for the DataReader to handle rows that contain columns with large binary values. Rather than loading the entire row, SequentialAccess enables the DataReader to load data as a stream.

**NEW QUESTION 87**

You are developing an ASP.NET MVC application. The application has a page that searches for and displays an image stored in a database. Members of the EntityClient namespace are used to access an ADO.NET Entity Framework data model. Images and associated metadata are stored in a database table. You need to run a query that returns only the image while minimizing the amount of data that is transmitted. Which method of the EntityCommand type should you use?

- A. ExecuteScalar
- B. ExecuteDbDataReader
- C. ExecuteReader
- D. ExecuteNonQuery

**Answer:** A

**Explanation:**

ExecuteScalar  
 Executes the command, and returns the first column of the first row in the result set. Additional columns or rows are ignored.

**NEW QUESTION 91**

DRAG DROP

You are developing an ASP.NET MVC Web API application. The methods of the Web API must return details about the result of the operation. You need to create a method to add products. You have the following code:

```
public Target 1 PostProduct (Target 2 item)
{
    item = repository.Add(item);
    var response = new Target 3 <Product>(
        item, Target 4 .Created);
    string uri = Url.Route("DefaultApi", new { id = item.Id});
    response.Headers Target 5
    return response;
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 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.)

Code Segments	Answer Area
HttpStatusCode	Target 1: Code Segment
Product	Target 2: Code Segment
.Location = new Uri(uri);	Target 3: Code Segment
.Add(new Uri(uri));	Target 4: Code Segment
	Target 5: Code Segment

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Target 1:	HttpStatusCode
Target 2:	Product
Target 3:	HttpStatusCode
Target 4:	HttpStatusCode
Target 5:	.Location = new Uri(uri);

**NEW QUESTION 94**

You are preparing to develop a set of libraries that uses large data sets. The libraries must be shared across an organization and distributed to several servers. You need to create a remote NuGet feed that exposes the libraries for developer use. What should you do? (Each answer presents part of the solution. Choose all that apply.)

- A. Add packages to the Packages folder.
- B. Create a new Empty Web Application in Visual Studio.
- C. Configure the Packages folder located in the appSettings section of the web application's Web.config.
- D. Install the NuGet.DataFeed Package.
- E. Install the NuGet.Server Package.
- F. Create a new Empty Web Site in Visual Studio.

**Answer:** ABCE

**Explanation:**

Creating Remote Feeds

You can host a remote (or internal) feed on a server that runs IIS. Step 1 (B): Create a new Empty Web Application in Visual Studio Step 2 (E): Install the NuGet.Server Package

Step 3 (C): Configure the Packages folder

Step 4 (A): Add Packages to the Packages folder

Step 5: Deploy and run your brand new Package Feed! Reference: Hosting Your Own NuGet Feeds

**NEW QUESTION 95**

DRAG DROP

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

a.

```
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.)

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1:

Target 2:

Target 3:

Target 4:

**NEW QUESTION 97**

DRAG DROP

You are developing an ASP.NET Web API for a home inventory management system. You need to limit access to users with IP addresses based only in the United States. You have the following code:

```
public class HomeInventoryAuthorization: Target 1
{
    public override void OnAuthorization (Target 2 context)
    {
        var isUSIP = IP.IsUSIPAddress (context);
    }
}
```

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 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.)

Code Segments	Answer Area
<input type="text" value="HttpContext"/>	Target 1: <input type="text" value="Code Segment"/>
<input type="text" value="AuthorizeAttribute"/>	Target 2: <input type="text" value="Code Segment"/>
<input type="text" value="AuthorizationFilterAttribute"/>	
<input type="text" value="AuthorizationContext"/>	
<input type="text" value="CountryContext"/>	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1:

Target 2:

**NEW QUESTION 99**

You are developing an ASP.NET MVC application. The application is a loan processing system that uses the ADO.NET Entity Framework against a SQL Server database. It has a controller that loads a page that displays all loans along with rate information. Lazy loading has been disabled. The Loan class is shown below.

```
public partial class Loan
{
    ...
    public string RateID { get; set; }
    ...
    public virtual Rate Rate { get; set; }
}
```

You need to return the loans and rate information in a single round trip to the database. Which code segment should you use?

- A. 

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans;
    return View(loans.ToList());
}
```
- B. 

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans;
    loans = loans.Include("Rate");
    return View(loans.ToList());
}
```
- C. 

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans.Include("Loan.Rate");
    return View(loans.ToList());
}
```
- D. 

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans;
    loans.Select(o => o.Rate).Load();
    return View(loans.ToList());
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

**NEW QUESTION 101**

You are developing a WCF service. You need to create a duplex contract. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Apply the MessageContractAttribute attribute to every public method signature included in the appropriate contract.
- B. Create an interface for the client-side duplex contract.
- C. Create an interface for the server-side duplex contract.
- D. Apply the MessageContractAttribute attribute to the appropriate interface.
- E. Apply the ServiceContractAttribute attribute to the appropriate interface.
- F. Then, apply the OperationContractAttribute attribute to every public method signature included in that contract.
- G. Set the CallbackContract property to the appropriate interface.

**Answer: CEF**

**Explanation:**

To create a duplex contract  
 ?(C) Create the interface that makes up the server side of the duplex contract.  
 ?(E) Apply the ServiceContractAttribute class to the interface.  
 ?Declare the method signatures in the interface.  
 ?(E) Apply the OperationContractAttribute class to each method signature that must be part of the public contract.  
 ?Create the callback interface that defines the set of operations that the service can invoke on the client.  
 ?Declare the method signatures in the callback interface.  
 ?Apply the OperationContractAttribute class to each method signature that must be part of the public contract.  
 ?(F) Link the two interfaces into a duplex contract by setting the CallbackContract property in the primary interface to the type of the callback interface.  
 Reference: How to: Create a Duplex Contract

**NEW QUESTION 105**

You have a Microsoft Visual Studio project named Project1 that is deployed as an Azure web app. The Azure web app uses an Azure SQL Database. You plan to deploy updates to the Azure web app by using a Web Deploy Package. The password for the Azure SQL Database was changed since you first published the Azure web app. You need to deploy the package by using Windows PowerShell. Which file should you modify before running the PowerShell deployment script?

- A. WebApiConfig.cs from the App\_Start folder
- B. IdentityConfig.cs from the App\_Start folder
- C. App.config from the Web Application folder
- D. Project1-waws-dev.json from the Configurations folder

**Answer: A**

**NEW QUESTION 108**

**HOTSPOT**

You have a Windows Communication Foundation (WCF) service named Service1.

You deploy the WCF service at the root level of a website in Azure. The address of the Azure website is `http://service1.azurewebsites.net/`.

You need to generate a .cs file that can be used to interact with Service1.

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

## Answer Area

regasm.exe
sn.exe
svcutil.exe

<code>http://service1.azurewebsites.net/</code>
<code>svc://service1.azurewebsites.net/</code>
<code>tcp://service1.azurewebsites.net/</code>

service1.asmx
service1.svc
service1.wsdl

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://stackoverflow.com/questions/23997821/how-to-generate-wcf-service-with-svcutil-exe>

**NEW QUESTION 111**

**DRAG DROP**

You have an application that uses an Entity Framework context. Lazy loading is disabled for the context. The application uses an Azure SQL Database named Students.

You need to retrieve the courses of a student who has an ID of 100. The solution must use lazy loading.

Which five code blocks should you use? Develop the solution by selecting and arranging the required code blocks in the correct order.

NOTE: You will not need all of the code blocks.

### Code Blocks

### Answer Area

```
context.Entry(student).Collection(s =>
s.Courses).Load();

Student student = students.Where(s =>
s.StudentID == 100).FirstOrDefault<Student>();

using (var context = new SchoolEntities())
{

ILIST<Student> Students =
context.Students.ToList<Student>();

foreach (var course in student.Courses)
Console.WriteLine(student.Course.Name);
}

ILIST<Student> students =
context.Students.Include
("Courses").ToList<Student>();

foreach (var course in student.Courses)
Console.WriteLine(course.CourseName);
}

context.Entry(student).Collection(s =>
s.Courses);
```



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

References: <http://www.entityframeworktutorial.net/Querying-with-EDM.aspx>

**NEW QUESTION 116**

**DRAG DROP**

You are developing an ASP.NET MVC Web API application. The application must meet the following requirements:

- ?It must send or receive data without the use of a buffer.
- ?It must allow up to 1 MB of data to be received.
- ?It must allow up to 2 MB of data to be sent.

You need to complete the code to meet the requirements. You have the following code:

```
class Program
{
    private static string _baseAddress = "http://localhost:8080/";
    static void Main (string [] args)
    {
        var config = new HttpSelfHostConfiguration (_baseAddress);
        config.Routes.MapHttpRoute (
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id=RouteParameter.Optional }
        );
        Target 1 . Target 2 = 1024*1024*2;
        Target 3 . Target 4 = 1024*1024;
        Target 5 . TransferMode =
            TransferMode. Target 6;
        var server = new HttpSelfHostServer (config);
        server.OpenAsync(). Wait();
    }
}
```

What code segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5 and Target 6 to complete the code? (To answer, drag the appropriate code segments to the correct targets 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.)

**Code segments**

**Answer area**

- config
- server
- MaxBufferSize
- MaxReceivedMessageSize
- MaxConcurrentRequests
- Streamed
- Buffered

- Target 1: Code Segment
- Target 2: Code Segment
- Target 3: Code Segment
- Target 4: Code Segment
- Target 5: Code Segment
- Target 6: Code Segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

### Code segments

server

MaxConcurrentRequests

Buffered



### Answer area

Target 1: config

Target 2: MaxBufferSize

Target 3: config

Target 4: MaxReceivedMessageSize

Target 5: config

Target 6: Streamed

**NEW QUESTION 117**

DRAG DROP

You have two methods named F1 and F2. F2 takes a sting as a parameter.

You need to create a method named F3. F3 must retrieve a string value asynchronously. The string must call F2. During the asynchronous load of the string, F1 must run.

Which five code blocks should you use? Develop the solution by selecting and arranging the required code blocks in the correct order.

NOTE: You will not need all of the code blocks.

### Code Blocks

```
F1 ();
```

```
async Task<string> F3<>
{
```

```
HttpClient client = new HttpClient();
string urlContents = await
client.GetStringAsync
("http://msdn.microsoft.com");
```

```
string urlContents = await myTaskString;
```

```
return F2(urlContents);
}
```

```
HttpClient client = new HttpClient();
Task<string> myTaskString =
client.GetStringAsync
("http://msdn.microsoft.com");
```

### Answer Area



A. Mastered

B. Not Mastered

Answer: A

**Explanation:**

References: <https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/concepts/async/>

**NEW QUESTION 118**

DRAG DROP

You are developing a web application that uses an assembly named MyAssembly.

You need to ensure that when MyAssembly version 1.0.0.0 is requested, version 2.0.0.0 is used.

How should you complete the markup in the Web.config file? To answer, drag the appropriate elements to the correct locations. Each element 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.

**Elements**

assemblyBinding

bindingRedirect

name

oldVersion

handlers

newVersion

type

**Answer Area**

```

<configuration>
  <runtime>
    < Element xmlns="urn:schemas-microsoft-com:asm.v1">
      <dependentAssembly>
        <assemblyIdentity name="myAssembly"
          publicKeyToken="32ab4ba45e0a69a1"
          culture="neutral" />
        < Element = "1.0.0.0"
          Element = "2.0.0.0"/>
      </dependentAssembly>
    </ Element >
  </runtime>
</configuration>

```

A. Mastered  
 B. Not Mastered

Answer: A

**Explanation:**

Box 1: assemblyBinding

Box 2: bindingRedirect

To redirect one assembly version to another, use the <bindingRedirect> element. Box 3: OldVersion

Box 4: NewVersion

The newVersion attribute should specify a single version. For example, <bindingRedirect oldVersion="1.1.0.0-1.2.0.0" newVersion="2.0.0.0"/> specifies that the runtime should use version 2.0.0.0 instead of the assembly versions between 1.1.0.0 and 1.2.0.0.

Box 5: assemblyBinding

The following code example demonstrates a variety of binding redirect scenarios. The example specifies a redirect for a range of versions for myAssembly, and a single binding redirect for mySecondAssembly.

```

<configuration>
<runtime>
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
<dependentAssembly>
<assemblyIdentity name="mySecondAssembly" publicKeyToken="32ab4ba45e0a69a1" culture="en-us" />
<bindingRedirect oldVersion="1.0.0.0" newVersion="2.0.0.0" />
</dependentAssembly>
</assemblyBinding>
</runtime>
</configuration>

```

References: <https://docs.microsoft.com/en-us/dotnet/framework/configure-apps/redirect-assembly-versions>

**NEW QUESTION 122**

You are developing an ASP.NET Core web application by using an Entity Framework code-first approach. The application uses an Azure SQL Database. The code-first migration is configured to run as part of a continuous integration build.

You must add an Azure MySQL Database. This database must use the same schema as the existing Azure SQL Database instance.

You need to configure the migration to ensure that the existing TFS build definition remains unchanged.

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. Use the ActiveProvider property to specify the provider to which the migration is applied.
- B. Create a new type that derives from DbContext and override the ActiveProvider objec
- C. Then, add or apply migrations using this type.
- D. Use the Entity Framework Core Fluent API to identify database providers.
- E. Create a separate Migration Assembly than the one containing the DbContext and switchthe active provider during build.

Answer: BC

**Explanation:**

References:

[https://medium.com/@rc\\_dos\\_santos/how-configure-asp-net-core-web-api-project-with-mysql-database-b7a64a247a99](https://medium.com/@rc_dos_santos/how-configure-asp-net-core-web-api-project-with-mysql-database-b7a64a247a99)

**NEW QUESTION 124**

You deploy a RESTful ASP.NET Web API to manage order processing.

You are developing an Azure App Services Web App to consume the API and allow customers to order products. You use the HttpClient object to process order entries. The API throws SocketException errors when the Web App experiences a high volume of concurrent users.

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

- A. Implement a Using statement block when declaring the HttpClient object.
- B. Increase the value of the Timeout property when declaring the HttpClient object.
- C. Use the static modifier to declare the HttpClient object.
- D. Create a new HttpClient instance for each API request and use asynchronous method calls.

Answer: C

**Explanation:**

If the class that wraps the external resource is shareable and thread-safe, create a shared singleton instance or a pool of reusable instances of the class.

The following example uses a static HttpClient instance, thus sharing the connection across all requests.

```
public class SingleHttpClientInstanceController : ApiController
{
private static readonly HttpClient httpClient; static SingleHttpClientInstanceController()
{
httpClient = new HttpClient();
}
// This method uses the shared instance of HttpClient for every call to GetProductAsync. public async Task<Product> GetProductAsync(string id)
{
var hostName = HttpContext.Current.Request.Url.Host;
var result = await httpClient.GetStringAsync(string.Format("http://{0}:8080/api/...", hostName));
return new Product { Name = result };
}
}
```

References: <https://docs.microsoft.com/en-us/azure/architecture/antipatterns/improper-instantiation/>

**NEW QUESTION 128**

DRAG DROP

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 users. 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.

**Tools**

Session	Cohorts
Funnels	Retention
Trends	Users

**Answer Area**

**Report section**

**Application insights tool**

Geography

Tool

Feature usage

Tool

Canada offers

Tool

Premium support

Tool

Buyer behavior

Tool

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1 Geography: Users

"the Country or Region from which users access the application"

The Users panel allows you to understand important details about your users in a variety of ways. You can use this panel to understand such information as where your users are connecting from, details of their client, and what areas of your application they're accessing.

Box 2: Feature usage: Session

" how often and for how long users browse the catalog"

The Sessions panel is similar to the Users panel. Where Users helps you understand details about the users accessing your application, Sessions helps you understand how those users used your application.

Box 3 Canada Offers: Cohorts

" how many Canadian customers visited the offers page"

A Cohort is a set of users grouped on similar characteristics. You can use cohorts to filter data in other panels allowing you to analyze particular groups of users. For example, you might want to analyze only users who completed a purchase, or users from Canada.

Box 4 Premium support: Cohorts

"how much time Premium customers spend on the support page"

A Cohort is a set of users grouped on similar characteristics. You can use cohorts to filter data in other panels allowing you to analyze particular groups of users. For example, you might want to analyze only users who completed a purchase, or users from Canada.

Box 5: Buyer behavior: Funnels

"the percentage of users that added items to a shopping cart and completed purchases" Funnels focus on what you want users to do. A funnel represents a set of steps in your

application and the percentage of users who move between steps. For example, you could create a funnel that measures the percentage of users who connect to your application who search product. You can then see the percentage of users who add that product to a shopping cart, and then the percentage of those who complete a purchase.

**NEW QUESTION 132**

DRAG DROP

You are developing a web application that uses the Entity Framework.

You plan to use the table-per-type mapping strategy to store the following data.

```
public class Product
{
    public int ProductId {get; set;}
    public string Name {get; set;}
    public decimal UnitPrice {get; set;}
}
public class DiscontinuedProduct : Product
{
    public DateTime DiscontinuedDate {get; set;}
}
```

You need to implement a mapping strategy that will store the data.

How should you complete the code? To answer, drag the appropriate methods to the correct locations. Each method 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.

Methods	Answer Area
Entity	protected override void <input type="text" value="Method"/> (DbModelBuilder modelBuilder)
OnModelCreating	{ modelBuilder. <input type="text" value="Method"/> <Product> ()
MapHierarchy	. <input type="text" value="Method"/> ("dbo.Products");
ToList	modelBuilder. <input type="text" value="Method"/> <DiscontinuedProduct> ()
OnInit	. <input type="text" value="Method"/> ("dbo.DiscontinuedProducts");
ToTable	}

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: OnModelCreating

Box 2: Entity

Box 3: ToTable

Mapping an Entity Type to a Specific Table in the Database Example:

All properties of Department will be mapped to columns in a table called t\_Department. modelBuilder.Entity<Department>()

ToTable("t\_Department"); Box 4: Entity

Box 5: ToTable

Mapping the Table-Per-Type (TPT) Inheritance

In the TPT mapping scenario, all types are mapped to individual tables. Properties that belong solely to a base type or derived type are stored in a table that maps to that type. Tables that map to derived types also store a foreign key that joins the derived table with the base table.

modelBuilder.Entity<Course>().ToTable("Course"); modelBuilder.Entity<OnsiteCourse>().ToTable("OnsiteCourse");

References: [https://msdn.microsoft.com/en-us/library/jj591617\(v=vs.113\).aspx](https://msdn.microsoft.com/en-us/library/jj591617(v=vs.113).aspx)

#### NEW QUESTION 137

You are developing an ASP.NET Core web application by using an Entity Framework code-first approach. The application uses a SQLite database.

You make changes to the classes in the model. You must apply the changes to the database. You need to suggest an approach to reliably handle the Entity Framework migrations.

Which three actions should you perform? Each correct answer presents a part of the solution.

NOTE: Each correct selection is worth one point.

- A. Modify the scaffolded migration script to drop the modified tables.
- B. Run the following command: dotnet ef database update
- C. Modify the scaffolded migration script to create new tables with the migration changes.
- D. Modify the scaffolded migration script to drop the existing database and create the new database.
- E. Run the following command: dotnet ef migrations add

**Answer:** CDE

#### Explanation:

E: Run dotnet ef migrations add InitialCreate to scaffold a migration and create the initial set of tables for the model.

C: You can workaround some of the SQLite limitations by manually writing code in your migrations to perform a table rebuild. A table rebuild involves renaming the existing table, creating a new table, copying data to the new table, and dropping the old table.

D: SQLite does not support all migrations (schema changes) due to limitations in SQLite. For new development, consider dropping the database and creating a new one rather than using migrations when your model changes.

References:

<https://docs.microsoft.com/en-us/ef/core/get-started/netcore/new-db-sqlite> <https://docs.microsoft.com/en-us/ef/core/providers/sqlite/limitations>

#### NEW QUESTION 142

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 a web application in a Docker container image. You set the tag for the image as myApp. You plan to deploy the application to Azure Container Services.

You run the following commands. All commands complete successfully.

```
az acr create --resource-group myResourceGroup --name myRegistry --sku Basic
az acr login --name myRegistry
```

You need to ensure that the image can be run on an Azure Container Service cluster.

Solution: You run the following commands:

```
docker tag myapp myregistry.azurecr.io/samples/myapp
docker pull myregistry.azurecr.io/samples/myapp
```

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

You need to push the image into your private registry, not pull it.

References: <https://medium.com/@pjbfg/azure-kubernetes-service-aks-pulling-private-container-images-from-azure-container-registry-acr-9c3e0a0a13f2>

#### NEW QUESTION 145

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

**Answer:** B

#### Explanation:

Package the component with the NuGet pack command.

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

#### NEW QUESTION 146

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 publish target specified. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Package the component with the NuGet pack command.  
 References: <https://docs.microsoft.com/en-us/nuget/guides/create-net-standard-packages-vs2015>

**NEW QUESTION 147**

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 a REST API that uses Node.js. The API will store data in Azure Cosmos DB. You plan to deploy the API to a new Azure App Services Web App. You create a new Web App by using the Azure portal.  
 The API must be deployed by using SFTP.  
 You need to provide the proper deployment credentials to deploy the API. Solution: Use your Azure Cosmos DB master key and resource token.  
 Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Get FTP publishing profile and query for publish URL and credentials  
 References: <https://docs.microsoft.com/en-us/azure/app-service/scripts/app-service-cli-deploy-ftp>

**NEW QUESTION 151**

**HOTSPOT**

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.

## Answer Area

App1:

App2:

App3:

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

App1: DataReader App2: DataReader App3: DataAdapter

Need to use a DataAdapter since the data could be modified. Note:

You can use the ADO.NET DataReader to retrieve a read-only, forward-only stream of data from a database. Results are returned as the query executes, and are stored in the network buffer on the client until you request them using the Read method of the DataReader. Using the DataReader can increase application performance both by retrieving data as soon as it is available, and (by default) storing only one row at a time in memory, reducing system overhead.

A DataAdapter is used to retrieve data from a data source and populate tables within a DataSet. The DataAdapter also resolves changes made to the DataSet back to the data source. The DataAdapter uses the Connection object of the .NET Framework data provider to connect to a data source, and it uses Command objects to retrieve data from and resolve changes to the data source.

References: <https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/dataadapters-and-datareaders>

**NEW QUESTION 153**

DRAG DROP

You are developing a Windows Communication Foundation (WCF) service named WCF1. WCF1 will use a certificate to secure the communication channel.

You need to ensure that the WCF service uses a certificate to secure the communication channel.

How should you complete the code? To answer, drag the appropriate code blocks to the correct locations. Each code block 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.

**Code blocks**

ClientCredentialType

GetType

MessageCredentialType.Certificate

MessageCredentialType.IssuedToken

MessageCredentialType.Windows

SetCertificate



**Answer Area**

```
WSHttpBinding aBinding = new WSHttpBinding();
aBinding.Security.Mode = SecurityMode.Message;

aBinding.Security.Message Code Block =

Code Block ;

EndpointAddress wcfEP = new EndpointAddress("http://wcf1");
WCFClient wcfClient = new WCFClient(aBinding, wcfEP);

wcfClient.ClientCredentials.ClientCertificate. Code block (
    StoreLocation.CurrentUser, StoreName.My, X509FindType.FindBySubjectName, "wcf1.com");
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Target 1: ClientCredentialType

Target 2: MessageCredentialType.Certificate

Set the ClientCredential property to an appropriate value. The following code sets the property to Certificate.

WSHttpBinding b = new WSHttpBinding(); b.Security.Mode = SecurityMode.Message;

b.Security.Message.ClientCredentialType = MessageCredentialType.Certificate; Target 3: SetCertificate

On the client class, set the ClientCredentials property of the ClientBase<TChannel> class to an appropriate value.

Example: // Set the certificate for the client. cc.ClientCredentials.ClientCertificate.SetCertificate( StoreLocation.LocalMachine, StoreName.My, X509FindType.FindBySubjectName, "cohowinery.com");

References: <https://docs.microsoft.com/en-us/dotnet/framework/wcf/how-to-set-the-security-mode>

<https://docs.microsoft.com/en-us/dotnet/framework/wcf/how-to-specify-client-credential-values>

**NEW QUESTION 154**

You are developing an application that reads and writes data from a SQL Server database. You need to ensure transactional data integrity. Which isolation level should you use?

- A. Serializable
- B. ReadCommitted
- C. ReadUncommitted
- D. Normal

**Answer: C**

**Explanation:**

Serializable provides the highest level of data integrity.

References: [https://msdn.microsoft.com/en-us/library/system.data.isolationlevel\(v=vs.110\)](https://msdn.microsoft.com/en-us/library/system.data.isolationlevel(v=vs.110))

**NEW QUESTION 159**

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