

## Help answer these 70–310 questions

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1. You create an XML Web service named PostalCode. Your project source includes a code-behind file and a file named PostalCode.asmx. During implementation, you use the Debug class to record debugging log messages, to verify parameter values, and to report debugging failures. You want to deploy PostalCode to a production computer. You do not want any of the debugging code to execute on the production computer. What should you do?

- a. Set the project's active configuration to Release and rebuild the DLL.
- b. Modify the trace element of the Web.config file by setting the enabled attribute to "false".
- c. Modify the compilation element of the Web.config file by setting the debug attribute to "false".
- d. Add code to the constructor of the PostalCode class to set the AutoFlush property of the Debug class to false.
- e. Add code to the constructor of the PostalCode class to call the Clear method of the Debug.Listeners property.

2. You are using Visual Studio .NET to develop an application that uses a non-COM DLL named UsefuiFunetices.dll. This DLL is written in unmanaged code. One function in the DLL performs encryption. This function takes two arguments. One argument is the string to be encrypted. The other argument is the resulting encrypted string. The function returns an integer that is an error code. You must ensure that your application uses this function correctly. Which code segment should you use?

a. Public Shared Function encrypt(ByVal input As String, ByVal out As StringBuilder) As Integer  
End Function  
Dim input As String = "content to encrypt"  
Dim output As New StringBuilder(500)  
Dim enCode As Integer = encrypt(input, output)

b. Public Shared Function encrypt(ByVal input As String, ByVal out As String) As Integer  
End Function  
Dim input As String = "content to encrypt"  
Dim output As New StringBuilder(500)  
Dim errCode As Integer = encrypt(input, output.ToString())

c. Public Shared Function encrypt(ByVal input As String, ByVal out As String) As Integer  
End Function  
Dim input As String = "content to encrypt"  
Dim output As String = ""  
Dim errCode As Integer = encrypt(input, output)

d. Public Shared Function encrypt(ByVal input As String, ByRef out As String) As Integer  
End Function  
Dim input As String = "content to encrypt"  
Dim output As String("x")  
Dim errCode As Integer = encrypt(input, output)

3. You are creating a serviced component named EmployeeLocations. This component will return a current list of employees in a given city. The list of employee locations changes nightly. EmployeeLocations must load an XML file named Emploc.xml nightly. EmployeeLocations contains one method named EmployeesInCity. EmployeesInCity takes a string city code and returns an array of Employee objects. EmployeeLocations will use the XML data to return lists of employees for a city throughout each day. EmployeeLocations must respond to EmployeesInCity method calls as quickly as possible. What should you do?

- a. Each night, load Emploc.xml into a MemoryStream object. For each request, use an XmlTextReader to locate the requested city and then the employees within that city.
- b. Each night, load Emploc.xml into an XPathDocument object. For each request, use the XPathNavigator. Select method to create an XPathNodelerator object. Use the XPathNodelerator object to return the list of employees.
- c. Each night, load Emploc.xml into an XmlDocument object. For each request, use the XmlDocument.GetElementsByTagName method to create an XmlNodeList object, which will contain the appropriate employee list.
- d. Each night, load Emploc.xml into an XmlDataDocument object.

For each request, use the `XmlDataDocument.GetElementsByTagName` method to create an `XmlNodeList` object, which will contain the appropriate employee list.

4. You create a strongly named serviced component. The component uses a third-party .NET assembly named `Fabrikam.Encryptor.dll` to perform encryption and decryption. `Fabrikam.Encryptor.dll` is registered in the global assembly cache. You deploy the serviced component and `Fabrikam.Encryptor.dll` to a production computer. A new version of `Fabrikam.Encryptor.dll` becomes available. You remove the original version and install the new version on the production computer. The serviced component throws a `System.TypeLoadException` when it attempts to use `Fabrikam.Encryptor.dll`. You need to correct this problem. What should you do?

- a. Unregister and then re-register the serviced component in the global assembly cache.
- b. Use the Strong Name tool (`Sn.exe`) to create a new key file for the serviced component.
- c. Create a configuration file named `Dllhost.exe.config` to redirect the serviced component to the new version of `Fabrikam.Encryptor.dll`.
- d. Create a Publisher Policy assembly for `Fabrikam.Encryptor.dll` and register the assembly in the global assembly cache.

5. You write a serviced component named `OrderProcessing` that processes customer orders. You cache the product list and customer list within `OrderProcessing` to improve response time. `OrderProcessing` has a method named `ValidateCache` that validates the contents of the cache. `ValidateCache` includes the following method signature: `Public Sub ValidateCache(ByVal name As String)` You want to call `ValidateCache` during development and testing. You do not want to call `ValidateCache` when you release your component for deployment. You want to accomplish this task by writing the minimum amount of code. Which code segment should you use?

- a. 

```
Public Sub ValidateCache(ByVal name As String)
    Debug.Assert(False)
    'Method body goes here.
End Sub
```
- b. 

```
#If DEBUG Then
    Public Sub ValidateCache(ByVal name As String)
        ' Method body goes here.
    End Sub
```

```
#End If
```

```
c. Public Sub ValidateCache(ByVal name As String)
```

```
'Method body goes here.
```

```
End Sub
```

```
d. <Conditional("DEBUG")> _
```

```
Public Sub ValidateCache(ByVal name As String)
```

```
' Method body goes here.
```

```
End Sub
```

6. You create an XML Web service named LatLong that converts street addresses to latitude and longitude coordinates. Your company charges for this service and allows only existing customers to use the service. If a customer ID is not passed as part of a SOAP header, you want the service to refuse the request. You want these service refusal messages to be logged to an event log named LatLongLog. You anticipate that there will be a lot of these log entries

overtime. A String object named refusalMessage contains the message to log. Which code segment should you use?

```
a. Dim log As New EventLog("LatLongLog")
```

```
log.WriteEntry(refusalMessage, EventLogEntryType.Error)
```

```
b. Dim log As New EventLog()
```

```
log.Source = "LatLongLog"
```

```
log.WriteEntry(refusalMessage, EventLogEntryType.Error)
```

```
c. If Not EventLog.SourceExists("LatLongSource") Then
```

```
EventLog.CreateEventSource("LatLongLog")
```

```
End If
```

```
EventLog.WriteEntry("LatLongSource", refusalMessage,
```

```
EventLogEntryType.Error)
```

```
d. If Not EventLog.SourceExists("LatLongSource") Then
```

```
EventLog.CreateEventSource("LatLongSource", "LatLongLog")
```

```
End If
```

```
Dim log As New EventLog("LatLongLog")
```

```
log.WriteEntry(refusalMessage, EventLogEntryType.Error)
```

7. You use a serviced component named FabrikamComponent in three applications on your computer. Over the past six months,

you have received a number of updates to

FabrikamComponent, all of which you have registered in the global assembly cache. As a result, you discover that one application is using version 1.0.2.0, another application is using version 1.0.3.0, and a third application is using version 1.0.5.0. You now receive version 2.0.0.0 of FabrikamComponent, which is a critical update. You register version 2.0.0.0 in the global assembly cache. You verify that version 2.0.0.0 is backward compatible. You need to ensure that all three of your applications use version 2.0.0.0. You want to accomplish this task without

having to recompile all three applications. What should you do?

- a. Create a Publisher Policy for FabrikamComponent that redirects all prior versions to version 2.0.0.0.
- b. In the Assembly file of each application, set the assembly version of FabrikamComponent to version 2.0.0.0.
- c. In the Machine.config file, configure a binding policy that sets the CodeBase property of FabrikamComponent to version 2.0.0.0.
- d. In the Machine.config file, configure a binding policy for FabrikamComponent that redirects all prior versions to version 2.0.0.0

9. You create a .NET remoting object named DocumentStore. DocumentStore is a server-activated singleton object. It uses a TcpChannel to listen on port 9000. The object URI for DocumentStore. You need to write a client application to use DocumentStore from a computer named ServerA. Which code segment should you use?

- a. 

```
RemotingConfiguration.Configure("tcp://ServerA:9000/DocumentStore")
Dim doc As New DocumentStore()
```
- b. 

```
Dim t As Type t = GetType(DocumentStore)
RemotingConfiguration.RegisterWellKnownClientType(t, "TcpChannel, 9000 ServerA")
Dim doc As New DocumentStore()
```
- c. 

```
Dim t As Type
Dim Temp As Object
Dim doc As DocumentStore
t = GetType(DocumentStore)
temp = Activator.CreateInstance(t, "tcp://serverA:9000/DocumentStore")
doc = CType(temp, DocumentStore)
```
- d. 

```
Dim t As Type
Dim temp As Object
Dim doc As DocumentStore
ChannelServices.RegisterChannel(New TcpChannel(9000))
t = GetType(DocumentStore)
temp = Activator.CreateInstance(t, "ServerA")
doc = CType(temp, DocumentStore)
```

10. You are creating a serviced component named UserManager. UserManager adds user accounts to multiple transactional data sources. The UserManager class includes the following code segment.

```
<Transaction(TransactionOption.Required), securityRole("Admin")> _
Public Class UserManager
```

Inherits ServicedComponent

```
Public Sub AddUser(ByVal name As String, ByVal password As String)
```

```
'Code to add the user to data source goes here.
```

```
End Sub
```

```
End Class
```

You must ensure that the AddUser method reliably saves the new user to either all data sources or no data sources.

What should you do?

a. To AddUser, add the following attribute:

```
<AutoComplete(>
```

b. To UserManager, add the following attribute:

```
<JustIntimeActivation(false)>
```

c. To the end of AddUser, add the following line of code:

```
ContextUtil.EnableCommit()
```

d. To the end of AddUser, add the following line of code:

```
ContextUtil.MyTransactionVote = True
```

11. You are creating a .NET Remoting object named PropertyCache. PropertyCache will hold a HashTable object or name/value pairs. A variety of remote client application will communicate with PropertyCache to set and get property values. You need to ensure that properties set by one client application are also accessible to other client applications.

Which two actions should you take (Each correct answer presents part of the solution)? (Choose two)

a. Configure Property to be a client-activated object

b. Configure Property to be a server-activated Singleton object

c. Configure Property to be a server-activated SingleCall object

d. Derive the PropertyCache class from MarshalByRefObject and override InitializeLifetimeService() to return null.

e. Mark the PropertyCach class with the serializable attribute Implement the ISponsor interface in the PropertyCache class

f. Implement the ISerializable and ILease interfaces in the PropertyCache class. Implement ILease.CurentLeaseTime to return Int32.MaxValue.

12. You are creating a serviced component named Travelltinerary included the following code segment:

```
<Transaction(TransactionOption.Required)> _
```

```
Public Class Travelltinerary
```

```
Inherits ServiceComponent
```

```
<AutoComplete(> _
```

```
Public Function SaveIntenerary(ByVal tavelData As DataSet)
```

```
As DataSet
Dim airline As New AirlineAService()
Dim hotel As New HotelService.HotelService()
airline.ReserveFlight(travelData)
'Code to record reservation in database goes here.
hotel.ReserveHotel(travelData)
'Code to record reservation in database goes here.
Return TravelData
End Function
End Class
```

The TransactionOption property of both ReserveFlight and ReserveHotel is set to TransactionOption.Required. You create an application to test TravellItinerary. When the test application is run, an exception is thrown in HotelsService.

How are transactions in TravellItinerary and in each Web service affected by this exception?

- a. All transactions are rolled back.
- b. Transactions in only HotelService are rolled back. Transactions in only TravellItinerary and AirelineService remain committed.
- c. Transactions in only HotelsService and TravellItinerary are rolled back. Transaction in only AirlineService remain committed.
- d. Transactions in only Aireline Service and TravellItinerary are rolled back. Transaction in only HotelService remain committed.

13. You have a SqlDataReader object named orderDataReader. This object contains a column named OrderQuantity as an integer value. This object also contains one row for each order received during the previous week. You need to write code that will process each row in ordersDataReader and pass OrderQuantity to a function named RSFunction. Which code segment should you use?

- a. While ordersDataReader.Read  
CallRSFunction(ordersDataReader("OrderQuantity"))  
End While.
- b. While ordersDataReader.Read.Next  
CallRSFunction(ordersDataReader("OrderQuantity"))  
End While
- c. Dim orderCount As Integer  
While orderCount < ordersDataReader.FieldCount  
Call RSFunction(ordersDataReader("OrderQuantity"))  
orderCount += 1  
ordersDataReader.Read  
End While
- d. Dim orderCount As Integer  
While orderCount < ordersDataReader.FieldCount

```
Call RSFunction(ordersDataReader("OrderQuantity"))
orderCount += "1"
ordersDataReader.NextResult
End While
```

14. You are using Visual Studio .NET to develop an application. You have a common business logic component that was created in COM that you want to use until you can replace it with Visual Studio .NET code. What should you do?

- a. Register the COM component by using Regsvr32.exe.
- b. Run The Type Library Exporter (Tlbexp.exe) and pass the COM component as the filename parameter
- c. Use Visual Studio .NET to add a reference to the COM component.
- d. Run the assembly Registration tool (Regasm.exe) and pass the COM component as the filename parameter.

15. You create a class named BankAccount that represents a customer's bank account.

BankAccount includes the following code segment:

```
Public Class BankAccount
Public ReadOnly Property AccountId() As String
Get Return acctId
End Get
End Property
Public ReadOnly Property Balance() As Decimal
Get Return bal
End Get
End Property
Sub New(ByVal accountId As String, ByVal balance As
Decimal)
acctId = accountId
bal = balance
End Sub
Private acctId As String
Private bal As Decimal
End Class
```

You are now creating a .NET Remoting object named Teller. The Teller class returns lists of BankAccount objects. You anticipate that large numbers of client applications will use the Teller object to retrieve BankAccount objects. You want to ensure that network traffic is minimized. What should you do?

- a. Add the Serializable attribute to the BankAccount class.
- b. Add the NonSerialized attribute to the BankAccount class.
- c. Derive the BankAccount class from MarshalByRefObject.
- d. Implement the ISerializable interface in the

BankAccount class.

16. You create an XML Web service named TimeService. Each time TimeService is started, it checks for the existence of an event log named TimeServiceLog. If TimeServiceLog does not exist, timeService create it. You discover that when TimerService create TimeServiceLog, it throws a System.Security.Security.Exception. The exception include following message: "Requested registry access is not allowed". You need to resolve this problem What should you do?

- a. Configure Inetinfo.exe to run as the local administrator user account
- b. Create an installer for TimeService, and create the new event log in the installer code.
- c. Modify the Web.config file by adding an identity element to impersonate the LOGON user specified by Internet Information Service (IIS).
- d. Modify the permission of the HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog registry key to give full control to the IUSR\_computername user account

17. You create an XML Web service named PhoneNumberService that returns the telephone numbers of people in a specified geographical region. If an error occurs when the service is processing requests, a custom application exception named PhoneNumberException that may be thrown. You create an ASP.NET application named LSPhoneBook that contains a Web reference to PhoneNumberService. You need to wrap any calls made to PhoneNumberService in a try/catch block to catch any PhneNumberException that may be thrown Which two code segments are possible ways to achieve this goal (Each correct answer presents a complete solution.)? (Choose two)

- a. Try  
'Code to call PhoneNumberService method goes here.  
Catch ex As SoapExeption  
'Handle the Exception  
End Try
- b. Try  
'Code to call PhoneNumberService method goes here.  
Catch ex As SoapHeaderExeption  
'Handle the Exception  
End Try
- c. Try  
'Code to call PhoneNumberService method goes here.  
Catch ex As Exeption  
'Handle the Exception

End Try

d. Try

'Code to call PhoneNumberService method goes here.

Catch ex As ApplicationException

'Handle the Exception

End Try