

**Exam : Microsoft 70-529(VB)**

**Title : MS.NET Framework 2.0 -  
Distributed Appl  
Development**

**Version : Demo**



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1. A file named Util.asmx contains the following code segment. (Line numbers are included for reference only.)

```
01 <%@ WebService Language="VB" Class="Util" %>
02 Public Class Util
03     Public Function GetData() As String
04         Return "data"
05     End Function
06 End Class
```

You need to expose the GetData method through a Web service.

What should you do?

- A. Insert the following line of code between lines 01 and 02. <System.Web.Services.WebService()>\_
- B. Insert the following line of code between lines 02 and 03. Inherits System.Web.Services.WebService
- C. Insert the following line of code between lines 02 and 03. <System.Web.Services.WebMethod()>\_
- D. Replace line 01 with the following line of code.

```
<%@ WebService Language="VB" Class="System.Web.Services.WebService" %>
```

**Answer: C**

2. You call a method in a Web service. The following exception is thrown in the Web service client.

System.Web.Services.Protocols.SoapException: Server was unable to process request. --> System.NullReferenceException: Object reference not set to an instance of an object.

You discover that it is the following line of code that throws the exception.

```
If Session("StoredValue") Is Nothing Then
```

You need to ensure that the method runs without throwing the exception.

What should you do?

- A. Modify the WebMethod attribute in the Web service so that the EnableSession property is set to True.
- B. In the client code for the Web service's proxy object, assign a new instance of the System.Net.CookieContainer object to the CookieContainer property.
- C. Add the following element to the System.Web section of the Web.config file.

```
<sessionState mode="InProc" />
```

- D. Add the following elements to the System.Web section of the Web.config file.

```
<httpModules>
    <add name="Session" type="System.Web.SessionState.SessionStateModule" />
</httpModules>
```

**Answer: A**

3. You are creating a Web service to expose the public methods on a class. Two overloaded methods are

defined in the class as follows:

```
Public Function GetCustomer(ByVal custId As String) As Customer
```

```
Public Function GetCustomer(ByVal name As String, _  
    ByVal postalCode As String) As Customer
```

You need to expose both methods on the Web service.

Which code segment should you use?

A. <WebMethod()> \_

```
<SoapDocumentMethod(Action:="GetCustomerById")> _
```

```
Public Function GetCustomer(ByVal custId As String) As Customer
```

...

```
End Function
```

```
<WebMethod()> _
```

```
<SoapDocumentMethod(Action:="GetCustomerByName")> _
```

```
Public Function GetCustomer(ByVal name As String, _  
    ByVal postalCode As String) As Customer
```

...

```
End Function
```

B. <WebMethod(Description:="GetCustomerById")> \_

```
Public Function GetCustomer(ByVal custId As String) As Customer
```

...

```
End Function
```

```
<WebMethod(Description:="GetCustomerByName")> _
```

```
Public Function GetCustomer(ByVal name As String, _  
    ByVal postalCode As String) As Customer
```

...

```
End Function
```

C. <WebMethod(MessageName:="GetCustomerById")> \_

```
Public Function GetCustomer(ByVal custId As String) As Customer
```

...

```
End Function
```

```
<WebMethod(MessageName:="GetCustomerByName")> _
```

```
Public Function GetCustomer(ByVal name As String, _  
    ByVal postalCode As String) As Customer
```

...

```
End Function
```

```
D. <WebMethod()> _  
  <SoapDocumentMethod(RequestElementName:="GetCustomerById")> _  
  Public Function GetCustomer(ByVal custId As String) As Customer  
  ...  
End Function  
<WebMethod()> _  
<SoapDocumentMethod(RequestElementName:="GetCustomerByName")> _  
Public Function GetCustomer(ByVal name As String, _  
  ByVal postalCode As String) As Customer  
  ...  
End Function
```

**Answer: C**

4. You create a Web service that exposes a Web method named CalculateStatistics. The response returned by the CalculateStatistics method for each set of input parameters changes every 60 seconds.

You need to ensure that all requests to the CalculateStatistics method that have the same set of input parameters, and that occur within a 60-second time period, calculate the statistics only once.

Which code segment should you use?

```
A. <WebMethod()> _  
  Public Function CalculateStatistics(ByVal values As Integer()) As String  
  HttpContext.Current.Response.Cache.SetCacheability( _  
    HttpCacheability.Public, "max-age=60")  
  ...  
End Function
```

```
B. <WebMethod(CacheDuration:=60)> _  
  Public Function CalculateStatistics(ByVal values As Integer()) As String  
  ...  
End Function
```

```
C. <WebMethod()> _  
  Public Function CalculateStatistics(ByVal values As Integer()) As _  
  String  
  HttpContext.Current.Response.Cache.SetExpires( _  
    DateTime.Now.AddSeconds(60))  
  ...  
End Function
```

```
D. <WebMethod(BufferResponse:=60)> _
```

```
Public Function CalculateStatistics(ByVal values As Integer()) As _  
String
```

...

```
End Function
```

**Answer: B**

5. You are creating a Web service.

You need to add an operation that can be called without returning a message to the caller.

Which code should you use?

A. <WebMethod()> \_

```
<SoapDocumentMethod(OneWay:=True)> _
```

```
Public Function ProcessName(ByVal Name As String) As Boolean
```

...

```
Return False
```

```
End Function
```

B. <WebMethod()> \_

```
<OneWay()> _
```

```
Public Sub ProcessName()
```

...

```
End Sub
```

C. <WebMethod()> \_

```
<SoapDocumentMethod(OneWay:=True)> _
```

```
Public Sub ProcessName()
```

...

```
End Sub
```

D. <WebMethod()> \_

```
<SoapDocumentMethod(Action:="OneWay")> _
```

```
Public Sub ProcessName()
```

...

```
End Sub
```

**Answer: C**

6. You are creating a Web service by using ASP.NET.

You need to ensure that the Web Services Description Language (WSDL) file that is generated is Web services interoperability (WS-I) compliant and that it allows message validation.

What should you do?

A. Add the following attribute definition to the Web service.

<SoapRpcMethod(Use:=SoapBindingUse.Encoded)>

B. Add the following attribute definition to the Web service.

<SoapRpcMethod(Use:=SoapBindingUse.Literal)>

C. Add the following attribute definition to the Web service.

<SoapDocumentMethod(Use:=SoapBindingUse.Encoded)>

D. Add the following attribute definition to the Web service.

<SoapDocumentMethod(Use:=SoapBindingUse.Literal)>

**Answer: D**

7. A Web service returns a Node object X that references Node object Y. Node object Y also references Node object X. When the Web service method is called in a way that returns Node object X, the following exception is thrown.

System.InvalidOperationException: A circular reference was detected while serializing an object of type Node.

You need to ensure that the Web service method runs without generating the exception. Your code must preserve the circular reference between the Node objects.

What should you do?

A. Add the following attribute to the Web service method.

<SoapRpcMethod(Use:=SoapBindingUse.Literal)>

B. Add the following attribute to the Web service method.

<SoapRpcMethod(Binding:="Encoded")>

C. Add the following attribute to the Web service method.

<SoapRpcMethod(Use:=SoapBindingUse.Encoded)>

D. Add the following attribute to the Web service method.

<SoapRpcMethod(Binding:="Literal")>

**Answer: C**

8. A SOAP message has the following body.

<soap:Body>

<tns:Greeting>

<Person href="#id1" />

</tns:Greeting>

<tns:User id="id1" xsi:type="tns:User">

<GivenName xsi:type="xsd:string">givenname</GivenName>

<SurName xsi:type="xsd:string">surname</SurName>

</tns:User>

</soap:Body>

You need to configure the Greeting method to accept the SOAP message.

Which code segment should you use?

- A. <WebMethod()> \_  
 <SoapDocumentMethod(Use:=SoapBindingUse.Literal)> \_  
 Public Function Greeting(<XmlElement("Person")> ByVal user As User)  
 ...  
 End Function
- B. <WebMethod()> \_  
 <SoapDocumentMethod(Use:=SoapBindingUse.Encoded)> \_  
 Public Function Greeting(<XmlElement("Person")> ByVal user As User)  
 ...  
 End Function
- C. <WebMethod()> \_  
 <SoapDocumentMethod(Use:=SoapBindingUse.Literal)> \_  
 Public Function Greeting(<SoapElement("Person")> ByVal user As User)  
 ...  
 End Function
- D. <WebMethod()> \_  
 <SoapDocumentMethod(Use:=SoapBindingUse.Encoded)> \_  
 Public Function Greeting(<SoapElement("Person")> ByVal user As User)  
 ...  
 End Function

**Answer: D**

9. You are creating a Web service. The Web service must be configured to receive the following message.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <givenName xmlns="urn:SampleNS">given name</givenName>
    <surname xmlns="urn:SampleNS">surname</surname>
  </soap:Body>
</soap:Envelope>
```

You need to ensure that the Web Services Description Language (WSDL) for the Web service describes the message.

What should you do?

A. Write the following code for the Web method.

```
<WebMethod()> _
```

```
<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Bare, Use:=SoapBindingUse.Literal)> _  
Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String)
```

...

```
End Function
```

B. Write the following code for the Web method.

```
<WebMethod()> _
```

```
<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Wrapped,  
Use:=SoapBindingUse.Encoded)> _
```

```
Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String)
```

...

```
End Function
```

C. Write the following code for the Web method.

```
<WebMethod()> _
```

```
<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Wrapped,  
Use:=SoapBindingUse.Literal)> _
```

```
Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String)
```

...

```
End Function
```

D. Write the following code for the Web method.

```
<WebMethod()> _
```

```
<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Bare,  
Use:=SoapBindingUse.Encoded)> _
```

```
Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String)
```

...

```
End Function
```

**Answer: A**

10. A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)

```
01 Public Sub IncrementSession5Times()  
02     Dim service As New SessionStateService()  
03     ...  
04     Dim i As Integer  
05     For i = 0 To 4  
06         ...
```

```
07 Console.WriteLine("Loop Pass {0} - result = {1}", i,  
08 service.IncrementSessionCounter())  
09 Next i  
10 End Sub
```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.

```
Loop Pass 0 - result = 1  
Loop Pass 1 - result = 2  
Loop Pass 2 - result = 3  
Loop Pass 3 - result = 4  
Loop Pass 4 - result = 5
```

What should you do?

A. Replace line 03 with the following code.

```
Dim cookies As New CookieContainer()
```

Replace line 06 with the following code.

```
Dim service As New SessionStateService()
```

```
service.CookieContainer = cookies
```

B. Replace line 03 with the following code.

```
Dim service As New SessionStateService()
```

C. Replace line 06 with the following code.

```
Dim service As New SessionStateService()
```

```
Dim cookies As New CookieContainer()
```

```
service.CookieContainer = cookies
```

D. Replace line 03 with the following code.

```
Dim cookies As New CookieContainer()
```

Replace line 06 with the following code.

```
Dim service As New SessionStateService()
```

```
cookies.GetCookies(New Uri(service.Url))
```

**Answer: A**

11. An application fails when executing a specific operation. You discover that the failure occurs when an exception is raised by a Web service.

The application uses the following code to call the Web service.

```
Sub Process()
```

```
Dim serviceProxy As ProcessService = New ProcessService()
```

```
AddHandler serviceProxy.ProcessDataCompleted, _
```

```
AddressOf ServiceCompleted  
serviceProxy.ProcessDataAsync(data)
```

End Sub

You need to ensure that the application does not fail when the Web service raises the exception. Your solution must maximize the performance of your code.

What should you do?

A. Register the following method with the proxy object to receive the notification of completion.

```
Sub ServiceCompleted(ByVal sender As Object, ByVal e As _  
    ProcessDataCompletedEventArgs)  
    If TypeOf sender Is SoapException Then  
        LogMessage(e.Error.Message)  
    Else  
        ProcessResult(e.Result)  
    End If
```

End Sub

B. Register the following method with the proxy object to receive the notification of completion.

```
Sub ServiceCompleted(ByVal sender As Object, ByVal e As _  
    ProcessDataCompletedEventArgs)  
    If TypeOf e.Error Is SoapException Then  
        LogMessage(e.Error.Message)  
    Else  
        ProcessResult(e.Result)  
    End If
```

End Sub

C. Register the following method with the proxy object to receive the notification of completion.

```
Sub ServiceCompleted(ByVal sender As Object, ByVal e As _  
    ProcessDataCompletedEventArgs)  
    Try  
        ProcessResult(e.Result)  
    Catch ex As Exception  
        Console.WriteLine(ex.Message)  
    End Try
```

End Sub

D. Register the following method with the proxy object to receive the notification of completion.

```
Sub ServiceCompleted(ByVal sender As Object, ByVal e As _
```

```
ProcessDataCompletedEventArgs)  
If Not e.Error Is Nothing Then  
    LogMessage(e.Error.Message)  
Else  
    ProcessResult(e.Result)  
End If
```

End Sub

**Answer: D**

12. You are writing an application that calls a Web service. The application must call the Web service asynchronously and also perform a small amount of processing while the Web service is running. The return value from the Web service is required for additional processing.

You need to ensure that the application can call the Web service asynchronously and also process the return value. Your solution must keep processor cycles to a minimum.

What should you do?

A. Implement the Web service call as follows:

```
Dim serviceProxy As New ProcessService()  
Dim asyncResult As IAsyncResult = serviceProxy.BeginProcess(data, _  
    Nothing, Nothing)  
Dim ret As String = serviceProxy.EndProcess(asyncResult)  
PerformProcessing()  
PerformAdditionalProcessing(ret)
```

B. Implement the Web service call as follows:

```
Dim serviceProxy As New ProcessService()  
Dim asyncResult As IAsyncResult = serviceProxy.BeginProcess(data, _  
    Nothing, Nothing)  
PerformProcessing()  
Dim ret As String = serviceProxy.EndProcess(asyncResult)  
PerformAdditionalProcessing(ret)
```

C. Implement the Web service call as follows:

```
Dim serviceProxy As New ProcessService()  
Dim asyncResult As IAsyncResult = serviceProxy.BeginProcess(data, _  
    New AsyncCallback(AddressOf ProcessHandler), serviceProxy)  
PerformProcessing()  
PerformAdditionalProcessing(ret)
```

D. Implement the Web service call as follows:

```
Dim serviceProxy As New ProcessService()  
Dim asyncResult As IAsyncResult = serviceProxy.BeginProcess(data, _  
    Nothing, Nothing)  
PerformProcessing()  
While Not asyncResult.IsCompleted  
    Dim ret As String = serviceProxy.EndProcess(asyncResult)  
    PerformAdditionalProcessing(ret)  
End While
```

**Answer: B**

13. An application calls a Web method asynchronously by using the following code. (Line numbers are included for reference only.)

```
01 Sub ProcessData()  
02     Dim serviceProxy As New ProcessingService  
03     Dim asyncResult As IAsyncResult = Nothing  
04     asyncResult = serviceProxy.BeginProcess(data, Nothing, _  
05         Nothing)  
06     While (Not asyncResult.IsCompleted)  
07         Thread.Sleep(1000)  
08     End While  
09  
10     serviceProxy.EndProcess(asyncResult)  
11 End Sub
```

You need to ensure that the application can process and log any exceptions raised by the Web method.

What should you do?

A. Replace line 10 with the following code.

```
Try  
    serviceProxy.EndProcess(asyncResult)  
Catch ex As Exception  
    LogException(ex)  
End Try
```

B. Replace lines 06, 07, and 08 with the following code.

```
Try  
    While (Not asyncResult.IsCompleted)  
        Thread.Sleep(1000)  
    End While
```

```
Catch ex As Exception
```

```
    LogException(ex)
```

```
End Try
```

C. Replace line 09 with the following code.

```
If TypeOf asyncResult.AsyncState Is Exception Then
```

```
    LogException(asyncResult.AsyncState)
```

```
End If
```

D. Replace line 04 with the following code.

```
Try
```

```
    asyncResult = serviceProxy.BeginProcess(data, Nothing, Nothing)
```

```
Catch ex As Exception
```

```
    LogException(ex)
```

```
End Try
```

**Answer: A**

14. You are writing an application that handles the batch processing of user accounts. The application assigns network identities for users by calling the following Web service method.

```
<WebMethod()> _
```

```
Public Function GetNetworkID(ByVal name As String) As String
```

```
    ...
```

```
End Function
```

The application calls the Web service using the following code. (Line numbers are included for reference only.)

```
01 Private Sub ProcessPeople(ByVal people As List(Of Person))
```

```
02     Dim serviceProxy As PersonService = New PersonService()
```

```
03     AddHandler serviceProxy.GetNetworkIDCompleted, _
```

```
04         AddressOf GetNeworkIDCompleted
```

```
05     Dim i As Integer
```

```
06     For i = 0 To people.Count - 1
```

```
07         ...
```

```
08     Next
```

```
09 End Sub
```

```
10
```

```
11 Private Sub GetNeworkIDCompleted(ByVal sender As Object, _
```

```
12     ByVal e As GetNetworkIDCompletedEventArgs)
```

```
13     Dim p As Person = Nothing
```

```
14    ...
15    p.NetworkID = e.Result
16    ProcessPerson(p)
17    End Sub
```

You need to ensure that the application can use the data supplied by the Web service to update each Person instance.

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

A. Replace line 07 with the following code segment.

```
serviceProxy.GetNetworkIDAsync(people(i).FirstName, people(i))
```

B. Replace line 07 with the following code segment.

```
serviceProxy.GetNetworkIDAsync(people(i).FirstName, Nothing)
```

C. Replace line 14 with the following code segment.

```
p = e.UserState
```

D. Replace line 14 with the following code segment.

```
p = sender
```

**Answer:** A AND C

15. A .NET Framework remoting server hosts a class library that contains the following class.

```
Public Class SimpleMathClass
    Inherits MarshalByRefObject
    Public Function LogData(ByVal dr As DataRow) As Integer
        'Lengthy database calls
        ...
    End Function
End Class
```

Users of a Windows-based client application report that the application often becomes nonresponsive. You discover that the application makes calls to the LogData method that take several seconds to return. The return value is required to generate reports in the client application.

You need to ensure that calls to the LogData method can be processed without making the client application nonresponsive.

What should you do?

A. Apply the OneWay attribute to the LogData method.

B. In the client code, declare a delegate that has the same signature as the LogData method.

On the client application's main thread, call the delegate's BeginInvoke method and pass in the necessary data.

On a second thread, call the EndInvoke method on the delegate to get the results.

C. Call the LogData method by using the ThreadPool.QueueUserWorkItem method.

D. In the client code, declare a delegate that has the same signature as the LogData method.

On the client application's main thread, call the delegate's Invoke method and pass in the necessary data.

On a second thread, call the GetObjectData method on the delegate to get the results.

**Answer: B**



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