

70-554

Microsoft

UPGRADE: MCSD Microsoft .NET Skills to MCPD Enterprise Application Developer: Part 2

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QUESTION 1

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003.

The access control to Web services is part of your responsibility. To this end you are currently exposing an existing class as an Extensible Markup Language (XML) Web service. You need to ensure that this Web service is accessible exclusively accessible to Web service clients within the Certkiller .com domain. To comply with this requirement you need to change the access modifiers on methods that must be exposed as Web methods.

What should you do?

- A. For each Web method, use the Internal or Friend Access modifier.
- B. For each Web method, use the Private Access modifier.
- C. For each Web method, use the Public Access modifier.
- D. For each Web method, use the Protected Access modifier.

Answer: C

Explanation: Since only Public methods can be exposed as Web methods, you should make use of the Public Access modifier for each Web method.

Incorrect answers:

A: You cannot use the Internal or Friend Access method, only Public Access method can be exposed as Web methods.

B: You cannot use the Private Access method, only Public Access method can be exposed as Web methods.

D: You cannot use the Protected Access method, only Public Access method can be exposed as Web methods.

QUESTION 2

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003.

The following exhibit illustrates the class definition for a data processing Web service:

Exhibit:

```
[WebService(Namespace-"urn:DataProcessingService")]
Public class DataProcessingService : Webservice
{
[WebMethod(MessageName-"ProcessDataSet")]
Public void Process(DataSet dataset)
{
}
}
```

You have been instructed to apply an attribute to the Process method that will

result in an immediate return to the caller without invoking a SOAP response. You need to ensure that the attribute that you apply in your solution is Web Services-Interoperability (WS-1) compliant. You thus need to make use of a code segment.

What should you do?

- A. Use the [OneWay] code segment.
- B. Use the [WebMethod(BufferResponse=false)] code segment.
- C. Use the [WebMethod(BufferResponse=true)] code segment.
- D. Use the [SoapDocumentMethod(OneWay=true)] code segment.
- E. Use the [SoapRpcMethod(OneWay=true)] code segment.

Answer: D

Explanation: If you want the Web method to be WS-1 compliant then you should apply the SoapDocumentMethod attribute to the Process method. Setting the attribute of the OneWay property to true indicates an immediate return to the caller without a response when it is invoked.

Incorrect answers:

A: You should not apply the OneWay attribute to the Process method. This attribute is used with .NET Remoting components when a method should immediately return to the caller without a return value.

B: You should not apply a second Web method. Only one WebMethod attribute can be applied to a Web method. Furthermore, the BufferResponse property of the WebMethod attribute does not determine if execution returns to the caller immediately when the associated method is invoked. It determines whether the entire response is placed in memory before it is sent to the caller. However, in this case no responses should be returned.

C: One does not apply a second Web method as suggested in this option.

E: RPC style is not WS-1 compliant.

QUESTION 3

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003. Certkiller .com is a Publishing and distribution company and works in joint ventures with many book stores that carries it products.

The provision of stock on hand updates to third party companies (the book stores) forms part of your responsibilities at Certkiller .com. You are currently developing an Extensible Markup Language (XML) Web Service that provides stock on hand updates. To this end you created a Web method named GetStock that accesses the third party company's XML Web service to retrieve the required information.

Following are some factors that you need to keep in mind:

1. The third parties' XML Web Service updates it information regarding stocks once every hour.
2. Certkiller .com is charged for each call to the third party Web service.

It is thus essential that you limit the number of calls that the Certkiller .com Web service makes to the third party company's Web service:

1. Thus you apply the Webmethod attribute to the GetStock method.
2. You need to configure the attribute to limit the number of calls to the third party Web service.
3. You must ensure that no cookies are required.

What should you do?

- A. The CacheDuration property should be set to 3600
- B. The EnableSession property should be set to true.
- C. The MessageName property should be set to "ClientCache".
- D. The BufferResponse property should be set to false.

Answer: A

Explanation: This property specifies the number of seconds that a response from a Web method should be cached on a server. With this property set to 3600, you will limit the number of calls to the third party Web service by limiting the number of invocations of your GetStock Web method to once every hour.

Incorrect answers:

B: The EnableSession property indicates whether a session should be enabled to the Web method. Server-side session state, which includes the Application and Session objects, can use a lot a memory on the Web server. Session state requires the use of cookies as well. Thus you should not use this property.

C: The MessageName property distinguishes overloaded Web methods. In Web services Description Language (WSDL) documents, each Web method must be named uniquely and the MessageName property is involved in meeting this requirement. This is not what should happen in this scenario.

D: The BufferResponse property determines whether the entire response is placed in memory on the server before it is sent to the Web Service client. You should thus not set this property to false.

QUESTION 4

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003.

The Extensible Markup Language (XML) Web service development forms part of your responsibilities at Certkiller .com. You are currently developing an Extensible Markup Language (XML) Web Service that contains four Web methods. Each of these four methods accepts a different number of parameters and each method is configured to make use of remote procedure call (RPC) SOAP formatting. You must ensure that each of these four Web methods is capable of being exposed as a Web method by the Web service.

What should you do?

- A. The SoapDocumentMethod attribute should be applied to each of the four methods.

Then set the RequestNamespace property of each attribute to a different value.

B. The WebService attribute should be applied to the Web service's class.

Then set the Namespace property of the attribute to "RPC".

C. The WebMethod attribute should be applied to each of the four web methods.

Then set the MessageName property of each attribute to a different value.

D. The SoapRpcService attribute should be applied to the Web service's class.

Then set the RoutingStyle property of the attribute to

SoapServiceRoutingStyleRequestElement.

Answer: C

Explanation: When you overload Web methods, you need to specify a distinct message name for each web method because Web Services Description Language (WSDL) does not support overloaded operations. You thus need to apply the WebMethod attribute to each of the four methods and set the MessageName property of each of these attributes to a different value.

Incorrect answers:

A: Because the Web methods must make use of RPC formatting, you should apply the SoapRpcMethod attribute to each of the four methods, you cannot apply both a SoapDocumentMethod attribute and a SoapRpcMethods attribute to the same method.

B: The Namespace attribute of the WebService attribute allows you to designate an XML namespace for the operations that are supported by the Web Service, not to ensure exposure.

D: Though it is possible to apply the SoapRpcService attribute to the class OR the SoapRpcMethod attribute to each method to support RPC formatting, it does not allow for overloaded methods to be exposed as Web methods. In this case the methods are already configured to make use of RPC formatting which actually indicates that one of the two attributes is already applied.

QUESTION 5

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003.

The ASP.NET Web application development forms part of your responsibilities at Certkiller .com. You are currently developing an ASP.NET Web application that contains three Web services and eight Web pages. You further received instructions to deploy the application to a production server named Certkiller -SR03. You need to ensure that no human-readable code is stored on the Web server when you deploy the application.

What should you do?

A. The Web Application should be built in Visual Studio 2005.

Copy only the files in the bin folder to the production server using the XCOPY command.

B. The Web application should be copied to Certkiller -SR03 using the Visual Studio 2005 Copy Web Site tool.

Select the option to copy only the files required to run the application.

C. The Web application should be published to Certkiller -SR03 using the Visual Studio 2005 Publish Web Site tool.

Unselect the checkbox that enables the "allow the precompiled site to be updatable" option.

D. The Web application should be published to Certkiller -SR03 using the Visual Studio 2005 Publish Web Site tool.

Select the checkbox that enables the "allow the precompiled site to be updatable" option.

Answer: C

Explanation: Publishing the Web application to Certkiller -SR03 will allow Visual Studio 2005 to precompile the application. Further you should also unselect the option that allows the precompiled site to be updatable. This will indicate that files with extensions like .aspx and .asmx should be precompiled and unavailable in human-readable form.

Incorrect answers:

A: Making use of the XCOPY command will yield Web pages that will contain human readable code. By default, the assemblies in the bin folder correlate with declarative code in Web pages, which are not copied to the bin folder during compilation. This will require that you copy the Web pages as well.

B: You cannot precompile Web pages into assemblies using the Copy Web Site tool. Besides Web pages contains human readable code.

D: When you select the option to allow precompiled site to be updatable, then the Web pages will exist on the Web server and Web pages contains human readable code.

QUESTION 6

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003. Certkiller .com operates as a credit bureau.

The development of Extensible Markup Language (XML) Web Services forms part of your responsibilities at Certkiller .com. You are currently developing an Extensible Markup Language (XML) Web Service that will allow legitimate third parties to access credit scores, pull credit records, and update credit information for customers. You need to implement a Web method named ObtainCreditScore. ObtainCreditScore should accept a String parameter and return an integer. You need to make use of Remote Procedure Call (RPC) style for this Web method; you also need to make use of the Document style for all Web methods that will be implemented. To this end you need to make use of the appropriate code segment for the Web service.

What should you do?

A. [WebService(Namespace="urn: Certkiller ")]
[SoapRpcService]
public class CreditService

```
{  
[WebMethod]  
public int ObtainCreditScore(string customerIdentifier)  
{  
return 0;  
}  
}
```

```
B. [WebService(Namespace="urn: Certkiller ")]  
public class WebService  
{  
[SoapRpcMethod]  
public int ObtainCreditScore(string customerIdentifier)  
{  
return 0;  
}  
}
```

```
C. [WebService(Namespace="urn: Certkiller ")]  
public class CreditService  
{  
[WebMethod]  
[SoapRpcMethod]  
public int ObtainCreditScore(string customerIdentifier)  
{  
return 0;  
}  
}
```

```
D. [SoapRpcService]  
public class WebService  
{  
[WebMethod]  
[SoapRpcMethod]  
public int ObtainCreditScore(string customerIdentifier)  
{  
return 0;  
}  
}
```

Answer: C

Explanation: the WebMethod and SoapRpcMethod attributes should be added to the ObtainCreditScore Web method. The WebMethod attribute in essence makes the method accessible by Web service clients. And the SoapRpcMethods instructs the Web Services Description Language (WSDL) generator to set the style attribute to Rpc for the ObtainCreditScore operation element.

Incorrect answers:

A, B: You must not apply the SoapRpcService attribute to the class because it will

instruct the WSDL generator to set the style attribute to rpc instead of document style.
D: The WebMethod attribute and NOT the SoapRpcService attribute should be applied to the ObtainCreditScore method to make the method accessible to the Web service clients.

QUESTION 7

You work as the Microsoft.NET developer at Certkiller .com. The Certkiller .com network consists of a single Active Directory domain named Certkiller .com. All servers in the domain run Windows Server 2003.

The implementation of trace listeners forms part of your responsibilities at Certkiller .com. You are currently busy implementing a custom trace that logs errors and warnings in a Microsoft SQL Server 2005 database. The custom trace implementation must allow individual applications to determine whether errors or warnings should be logged at a given time. To this end you install the assembly that contains the trace listener in the global assembly cache (GAC) on an application server.

You need to enable all Web services on the application server to use the trace listener by default. You should ensure that your solution does not force Microsoft Windows Forms applications that run on the server to use the trace listener.

What should you do? (Each correct answer presents part of the solution. Choose two.)

- A. The trace listener should be added to the Web.config file for each Web service.
- B. The trace listener should be added to the global Web.config file.
- C. The trace listener should be added to the machine.config file.
- D. Specify trace switches for each Web service in the Web.config file.
- E. Specify trace switches in the machine.config file.

Answer: B, D

Explanation: The global Web.config file contains the configuration settings for all the Web applications on a computer. When the trace listener is added to the global Web.config file you will enable all Web services on the application server to use the trace listener by default. You should also specify trace switch settings in the Web.config file for each web service. This in turn will allow you to determine if errors or warnings are logged to the database on a per Web service basis.

Incorrect answers:

- A: You should not add the trace listeners to the Web.config file for each Web service. You should enable the trace listener setting by default which can be done by changing the global Web.config file.
 - C: The trace listener should not be added to the machine.config file. It will cause the Windows Forms to inherit the settings by default because the machine.config file contains configuration settings for all applications on a computer.
 - E: You should not specify trace switches in the machine.config file. Each Web service must define the switches to control whether errors or warnings are logged for that Web service.
-

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