

Exam : Microsoft 70-554(C#)

**Title : UPGRADE:MCSD MS.NET
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Dvlpr Pt2**

Version : Demo



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1. A client application calls a Web service named Math. Both the client application and Math are configured with a Web Services Enhancements (WSE) 3.0 policy named Secure to validate anonymous access for certificate security. A Web reference to the Math Web service is added to the client application's project using Microsoft Visual Studio 2005. When the client application is built and executed, a SoapException exception is thrown with the following message.

The security requirements are not met because the security header is not included in the incoming message.

You need to ensure that the application runs without throwing the SoapException exception. What should you do?

- A. Add the following attribute to the Math proxy class definition. `[Microsoft.Web.Services3.Policy("Secure")]`
- B. Set the Name property for the WebServiceBindingAttribute attribute on the Math proxy class definition to MathWseSoap.
- C. Add the following attribute to the Math proxy class definition. `[Microsoft.Web.Services3.Policy("anonymousForCertificateSecurity")]`
- D. Modify the Math proxy class so that it derives from the following protocol. `System.Web.Services.Protocols.SoapHttpClientProtocol`

Answer: A

2. An application uses a Web service named DynamicImage. DynamicImage encrypts all response messages and then compresses these response messages.

The application uses a class named Contoso.Decrypt to decrypt the response messages and it uses a class named Contoso.Decompress to decompress the response messages. Both classes can be used as SOAP extensions. You need to ensure that the response messages from the DynamicImage Web service methods are decompressed and decrypted properly. What should you do?

- A. Add the following XML to the `<webServices>` section of your App.config file. `<soapExtensionTypes><add type="Contoso.Decompress, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="1" group="0"/><add type="Contoso.Decrypt, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="2" group="1"/></soapExtensionTypes>`
- B. Add the following XML to the `<webServices>` section of your App.config file. `<soapExtensionTypes><add type="Contoso.Decompress, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="2" group="0"/><add type="Contoso.Decrypt, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="1" group="0"/></soapExtensionTypes>`

- C. Add the following XML to the <webServices> section of your App.config file.<soapExtensionTypes><add type="Contoso.Decompress, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="2" group="1"/><add type="Contoso.Decrypt, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="1" group="0"/></soapExtensionTypes>
- D. Add the following XML to the <webServices> section of your App.config file.<soapExtensionTypes><add type="Contoso.Decompress, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="1" group="1"/><add type="Contoso.Decrypt, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" priority="2" group="0"/></soapExtensionTypes>

Answer: A

3. A Web service named Math uses Web Service Enhancements (WSE) 3.0 policy assertions that are defined in the policy configuration file to implement security. The Web service authenticates access to the Web methods using the UsernameOverTransportAssertion policy assertion. A client application must call a Web method on the Math Web service. When the client application is executed, it throws an InvalidOperationException exception that displays the following text.

Unable to determine client token to use. Client token type requested was 'Microsoft.Web.Services3.Security.Tokens.UsernameToken'.

The following code is used to invoke the Web method. (Line numbers are included for reference only.)

```
01 Math ws = new Math();  
02 ws.SetPolicy("Secure");  
03 int result = ws.Add(3, 4);
```

You need to ensure that the Web methods can be invoked without causing the client application to throw the InvalidOperationException exception. What should you do?

A. Add the following code between lines 02 and 03.ws.

```
Credentials = System.Net.CredentialCache.DefaultCredentials;
```

B. Add the following code between lines 02 and 03.ws.Credentials = new System.Net.NetworkCredentials(userId, password);

C. Add the following code between lines 02 and 03.ws.SetServiceCredential<UsernameToken>(new UsernameToken(userId, password));

D. Add the following code between lines 02 and 03.ws.SetClientCredential<UsernameToken>(new UsernameToken(userId, password));

Answer: D

4. You write an XML Web service. The XML Web service contains Web methods that return large amounts of non-sensitive public data. The data is transferred over the Internet. You need to be able to detect if the data was tampered with during transit. The implementation must be configurable at run time.

Your solution must minimize the impact on the performance of the Web service. What should you do?

- A. Configure the virtual directory to require the Secure Sockets Layer (SSL) protocol.
- B. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign and Encrypt protection level.
- C. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign-Only protection level.
- D. Configure the virtual directory that hosts the XML Web service to use basic authentication.

Answer: C

5. You are writing a Web service application that uses Web Services Enhancements (WSE) 3.0 policies. The Web service request and response data must be signed. Routing occurs between the client and server computers, and uses the Action SOAP header of the SOAP messages. You need to ensure that the SOAP signature is not invalidated when the SOAP message is routed. What should you do?

- A. In the policy file, set the signatureOptions attribute to IncludeAddressing.
- B. In the policy file, set the signatureOptions attribute to IncludeSoapBody.
- C. Sign the SOAP request with a UserName token that includes a password to allow the SOAP message to be signed again during routing.
- D. Sign a SOAP request that encapsulates the initial SOAP request.

Answer: B

6. You are creating a Windows-based application that allows users to store photographs remotely by using a Web service. The Web service is configured to use Web Services Enhancements (WSE) 3.0, and it has the following configuration XML in its Web.config file.

```
<microsoft.web.services3>  
  <messaging>  
    <mtom serverMode="always"/>  
  </messaging>  
</microsoft.web.services3>
```

You need to configure the application to ensure that a photograph can be sent to the Web service. What should you do?

- A. Add the following XML to the application's App.config file.

```
<microsoft.web.services3> <messaging>  
  <mtom serverMode="always" />  
</messaging></microsoft.web.services3>
```
- B. Add the following XML to the application's App.config file.

```
<microsoft.web.services3> <messaging>
```

```
<mtom serverMode="never" />
```

```
</messaging></microsoft.web.services3>
```

C. Add the following XML to the application's App.config file.<microsoft.web.services3> <messaging>

```
<mtom clientMode="Off" />
```

```
</messaging></microsoft.web.services3>
```

D. Add the following XML to the application's App.config file.<microsoft.web.services3> <messaging>

```
<mtom clientMode="On" />
```

```
</messaging></microsoft.web.services3>
```

Answer: D

7. A Windows Forms application calls in to a Web service named SensitiveData. The project has a Web reference named SensitiveDataWS. The code uses a class of type SensitiveDataWS.Service. SensitiveDataWS.Service is a proxy to the Web service.

An administrator reports that users running the client application receive a SoapHeaderException exception with the following message text: "Security requirements are not satisfied because the security header is not present

in the incoming message". You discover that the Web Services Enhancements (WSE) 3.0 policy file for the Web service was changed to require the encryption of SOAP messages.

You acquire the X.509 certificate that is used for encryption in the Web service. You need to ensure that the Windows Forms application meets the new security requirements of the Web service. What should you do?

A. In each Web method, assign an instance of the X509Certificate class that is initialized with the acquired X.509 certificate, to the ClientCertificates property of the SensitiveDataWS.Service class.

B. Apply WSE security to the Windows Forms project that is configured to use the acquired X.509 certificate with the Sign and Encrypt protection level. Renew the Web reference and modify the code to use the new SensitiveDataWS.ServiceWse class.

C. Apply WSE security to the Windows Forms project that is configured to use the acquired X.509 certificate with the Sign-Only protection level. Renew the Web reference and modify the code to use the new SensitiveDataWS.ServiceWse class.

D. In the Windows Forms project, create a custom class that inherits from the SoapHeader attribute class with a public property of type X509Certificate. Initialize the public property with the acquired X.509 certificate. Apply the created attribute to code in the client application that calls the Web service. Initialize the attribute with the name of the custom class.

Answer: B

8. You write a client application that uses a Web service. The Web service is hosted in a Windows service application. The Web service can be called only by using TCP. You are provided with the proxy that is enabled by Web Services Enhancements (WSE) 3.0. The proxy was generated by adding a Web reference

by using

Microsoft Visual Studio 2005. You need to ensure that the proxy calls the Web service correctly. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. On the Destination property of the proxy, set the TransportAddress property to the TCP address of the hosted Web service.
- B. Set the Action object in the SOAP request's addressing headers to the name of the Web service method you want to call.
- C. Change the URL of the proxy to the TCP address of the hosted Web service.
- D. Set the Action object in the SOAP request's addressing headers to the TCP address of the Web service you want to call.

Answer: BC

9. You are creating a Windows-based application that allows users to store photographs remotely by using a Web service. Both the Web service and the application are configured to use Web Services Enhancements (WSE) 3.0. You need to configure the application to ensure that a photograph can be sent to the Web service. What should you do?

- A. Write the following code segment in the application.

```
ImageServiceWse serviceProxy = new  
ImageServiceWse();byte[] img = GetImageBytes  
();serviceProxy.RequestSoapContext.Add(imageName, img);serviceProxy.SaveImage(null,  
imageName);
```

- B. Write the following code segment in the application.

```
ImageServiceWse serviceProxy = new  
ImageServiceWse();byte[] img = GetImageBytes  
();serviceProxy.SaveImage(img, imageName);
```

- C. Write the following code segment in the application.

```
ImageService serviceProxy = new  
ImageService();serviceProxy.SoapVersion = SoapProtocolVersion.  
Soap12;byte[] img = GetImageBytes();serviceProxy.SaveImage(img, imageName);
```

- D. Write the following code segment in the application.

```
ImageService serviceProxy = new  
ImageService();serviceProxy.UserAgent = "Microsoft WSE 3.0";byte[] img  
= GetImageBytes();serviceProxy.SaveImage(img, imageName);
```

Answer: B

10. A Web service application uses Web Services Enhancements (WSE) 3.0. A class named RejectUnknownActorFilter is derived from the SoapFilter class. The RejectUnknownActorFilter class throws

a SoapException exception if the request contains an unexpected actor. A class defines a policy assertion as follows.

(Line numbers are included for reference only.)

```
01 public class RequireActorAssertion : PolicyAssertion {
02     public override SoapFilter
03         CreateClientInputFilter(FilterCreationContext context) {
04         return null;
05     }
06     public override SoapFilter
07         CreateClientOutputFilter(FilterCreationContext context) {
08         return null;
09     }
10     public override SoapFilter
11         CreateServiceInputFilter(FilterCreationContext context) {
12         return null;
13     }
14     public override SoapFilter
15         CreateServiceOutputFilter(FilterCreationContext context) {
16         return null;
17     }
18 }
```

You need to ensure that the Web service rejects any SOAP request that contains an unexpected actor. Your code must minimize the server resources used to process the request. What should you do?

- A. Replace line 04 with the following line of code.`return new RejectUnknownActorFilter();`
- B. Replace line 08 with the following line of code.`return new RejectUnknownActorFilter();`
- C. Replace line 12 with the following line of code.`return new RejectUnknownActorFilter();`
- D. Replace line 16 with the following line of code.`return new RejectUnknownActorFilter();`

Answer: C

11. You write a Web service that uses Web Services Enhancements (WSE) 3.0 for security. The Web service must support both the kerberosSecurity policy and the mutualCertificateSecurity policy. Both policies have the same options set for encryption and signatures. You need to ensure that the Web service can use either policy. What should you do?

- A. Create two policy files: one with the kerberosSecurity policy, and the other with the mutualCertificateSecurity policy.
- B. Create one policy file that contains a policy element for the kerberosSecurity policy and a policy element

for the mutualCertificateSecurity policy.

- C. Create one policy file that contains a policy element, which contains a kerberosSecurity policy element and a mutualCertificateSecurity policy element.
- D. Create two policy files: one with the Extensions element, and the other with a single policy element that contains both the kerberosSecurity policy element and the mutualCertificateSecurity policy element.

Answer: B

12. A Web service application provides security data about employees to applications that control access to company facilities. The Web service is accessed by using TCP and is protected by using Web Services Enhancements (WSE) 3.0 security for message encryption. The company has added fingerprint readers to grant employees access to the facilities. Images of employee fingerprints are maintained by the Web service application. You need to ensure that the existing WSE security encryption policy can be applied to the fingerprint image. Your solution must minimize the size of the Web service message. What should you do?

- A. Configure the Web service to use base64 encoding to pass the binary fingerprint image.
- B. Configure the Web service to use Message Transmission Optimization Mechanism (MTOM) to pass the binary fingerprint image.
- C. Create a SOAP filter to manage encryption for the message.
- D. Create a SOAP extension to manage encryption for the message.

Answer: B

13. You have a Web service that is deployed on an unsecured network. You need to implement encryption on the Web service. The implementation must be configurable at run time. What should you do?

- A. Write a custom SOAP extension attribute class to encrypt and decrypt the SOAP message. Apply the attribute to the Web service class.
- B. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign and Encrypt protection level.
- C. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign-Only protection level.
- D. Write custom code in each Web method of the Web service that encrypts the data by using the DESCryptoServiceProvider class.

Answer: B

14. You are debugging a Web service application that uses Web Services Enhancements (WSE) 3.0. When you attempt to view tracing information for the Web service requests, you discover that the log file is not being updated as expected. You need to ensure that the log file is updated. What should you do?

- A. Add the following XML to the configuration section of the Web.config file.

```
<microsoft.web.services3> <diagnostics>
```

```
<trace enabled="true" input="InputTrace.webinfo" />
</diagnostics></microsoft.web.services3>
```

B. Add the following XML to the configuration section of the Web.config file.

```
<system.diagnostics> <switches>
<add name="WseTracing" value="InputTrace.webinfo"/>
</switches></system.diagnostics>
```

C. Add the following XML to the system.web section of the Web.config file.

```
<trace enabled="true" configSource="InputTrace.webinfo" writeToDiagnosticsTrace="true"/>
```

D. Add the following XML to the configuration section of the Web.config file.

```
<microsoft.web.services3>
<trace enabled="true" input="InputTrace.webinfo" />
</microsoft.web.services3>
```

Answer: A

15. When you execute a client application, the following exception is thrown. EncryptedKeyToken is expected but not present in the security header of the incoming message. You discover that the exception is thrown when the client application invokes a Web service named Math with the following code. (Line numbers are included for reference only.)

```
01 try
02 {
03     MathWse ws = new MathWse ();
04     int result = ws.Add(1, 2);
05 }
06 catch (Exception ex)
07 {
08     MessageBox.Show(ex.Message);
09 }
```

The client application and Web service have the same Web Services Enhancements (WSE) 3.0 policy. The policy configuration file contains the following policy section. <policy name="Secure">

```
<anonymousForCertificateSecurity
    establishSecurityContext="false"
    renewExpiredSecurityContext="true"
    requireSignatureConfirmation="false"
    messageProtectionOrder="SignBeforeEncrypt"
    requireDerivedKeys="true"
    ttlInSeconds="300">
```

```
<!-- XML defining the serviceToken and protection -->
</anonymousForCertificateSecurity>
</policy>
```

You need to ensure that the client application can communicate with the Web service. What should you do?

- A. Add the following code between lines 03 and 04.`ws.SetPolicy("Secure");`
- B. Replace line 03 with the following code.`Math ws = new Math();`
- C. Add the following code between lines 03 and 04.`ws.UseDefaultCredentials = true;`
- D. Add the following code between lines 03 and 04.`UsernameToken u = new UsernameToken("userid", "password"); EncryptedKeyToken et = new EncryptedKeyToken(u); ws.SetClientCredential(et);`
- E. Add the following code between lines 03 and 04.`ws.SetPolicy("anonymousForCertificateSecurity")`

Answer: A

16. A Web Services Enhancements (WSE) 3.0 router application uses a referral cache to make routing decisions. When a client application sends a SOAP message to the WSE router application, the following exception is thrown.`Microsoft.Web.Services3.Addressing.AddressingFault: MessageInformation Header Required`

The referral cache used by the WSE router application is as follows:

```
<?xml version="1.0" ?>
<r:referrals
  xmlns:r="http://schemas.xmlsoap.org/ws/2001/10/referral">
  <r:ref>
    <r:for>
      <r:exact>
        http://www.contoso.com/WSERouter/Service.asmx
      </r:exact>
    </r:for>
    <r:if />
    <r:go>
      <r:via>http://www.contoso.com/WSEService/Service.asmx</r:via>
    </r:go>
    <r:refId>uuid:fa469956-0057-4e77-962a-81c5e292f2ae</r:refId>
  </r:ref>
</r:referrals>
```

You need to ensure that a SOAP message can be sent to the WSE router application without throwing the `AddressingFault` exception. What should you do?

- A. Set the `AllowAutoRedirect` property on the Web service client proxy to `True`.

- B. Change the Web service client proxy class definition so that it is derived from the Microsoft.Web.Services3.WebServicesClientProtocol class.
- C. Set the ConnectionGroupName property on the Web service client proxy to Allow Routing.
- D. Set the UserAgent property on the Web service client proxy to WSE 3.0.

Answer: B

17. 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 bool ProcessName(string name) { ... return false;}`
- B. `[WebMethod][OneWay()]public void ProcessName(string name) { ...}`
- C. `[WebMethod][SoapDocumentMethod(OneWay = true)]public void ProcessName(string name) { ...}`
- D. `[WebMethod][SoapDocumentMethod(Action = "OneWay")]public void ProcessName(string name) { ...}`

Answer: C

18. You build a Web service that operates inside your Windows network. You need to ensure that only users who belong to the local Windows group named ServiceUsers are allowed to access and use the Web service. What should you do?

- A. Add the following XML to the Web.config file.
`<authentication mode="Windows" /><authorization>
<deny users="*" />
<allow roles=".ServiceUsers" /></authorization>`
- B. Add the following XML to the Web.config file.
`<authentication mode="Windows" /><authorization>
<allow roles=".ServiceUsers" />
<deny users="*" /></authorization>`
- C. Add the following XML to the Web.config file.
`<authentication mode="Windows" />
<identity impersonate="true" /><authorization>
<allow roles="ServiceUsers" /></authorization>`
- D. Add the following XML to the Web.config file.
`<authentication mode="Windows" /><authorization>
<allow roles="ServiceUsers" /></authorization>`

Answer: B

19. Two Web services named PersonService and GreetingService operate on Person objects. The PersonService Web service returns a Person object when it is given a name. The GreetingService returns a greeting message when it is given a Person object. The Person class is common to both Web services.

You need to use these Web services to get a greeting message for a person. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Generate the Web service proxies by using the Add Web Reference option in Microsoft Visual Studio 2005.

B. Generate the Web services proxies by using wsdl.exe with the following arguments and add them to your Microsoft Visual Studio 2005 project.
wsdl.exe /sharetypes /out:SharedTypesServicesProxies.cs http://host/GreetingService.asmx?WSDL http://host/PersonService.asmx?WSDL

C. Write the client code as follows:

```
void GreetPerson()  
{ PersonService personSvc = new PersonService();  
  GreetingService greetSvc = new  
  GreetingService(); string ret = greetSvc.GreetPerson(personSvc.FindMember("Howard Gonzalez"));}
```

D. Write the client code as follows:

```
void GreetPerson() { People.PersonService personSvc = new People.  
  PersonService (); People.Person person =  
  personSvc.FindMember("Howard Gonzalez");  
  Greeting.GreetingService greetSvc = new Greeting.GreetingService();  
  string ret = greetSvc.GreetPerson(  
  Convert.ChangeType(person, typeof(Greeting.Person)) as Greeting.Person);}
```

Answer: BC

20. Users report that a Windows-based application does not run properly. When users attempt to complete a particular action, the following error message text appears.

Unable to find assembly 'myservices, Version=1.0.0.0, Culture=neutral, PublicKeyToken=29b5ad26c9de9b95'.

You discover that the error occurs when the Windows-based application attempts to call functionality in a serviced component that was registered by using the following command.
regsvcs.exe myservices.dll

You need to ensure that the application can call the functionality in the serviced component without throwing the exception. What should you do?

A. Run the following tool from the command line.
gacutil.exe /i myservices.dll

B. Run the following tool from the command line.
regasm.exe myservices.dll

C. Copy the serviced component assembly into the following folder.
C:\Program Files\ComPlus Applications

D. Copy the serviced component assembly into the following folder.
C:\WINDOWS\system32\Com

Answer: A



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