Exam Questions 70-513
TS: Windows Communication Foundation Development with Microsoft .NET Framework 4
1. You develop a Windows Communication Foundation (WCF) service. It is used exclusively as an intranet application and is currently unsecured.

You need to ensure that the service meets the following requirements:

? The service now must be exposed as an Internet application.

? The service must be secured at the transport level.

? Impersonation and delegation cannot be enabled.

What should you use?
A. wsHttpBinding and HTTPS
B. basicHttpBinding and Kerberos
C. basicHttpBinding and HTTP
D. wsHttpBinding and Kerberos

Answer: A

2. An existing Windows Communication Foundation (WCF) service uses basicHttpBinding. You are releasing updates to the service and the client application.

You need to enable the client application to flow transactions to the service.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)
A. Change to a custom binding that has the httpTransport, textMessageEncoding, and transactionFlow binding elements in this order.
B. Change to a custom binding that has the transactionFlow, textMessageEncoding, and httpTransport binding elements in this order.
C. Change the binding to use wsHttpBinding.
D. Change the binding to use basicHttpContextBinding.

Answer: B,C

3. You are developing a Windows Communication Foundation (WCF) service that allows customers to update financial data.

The client applications call the service in a transaction. The service contract is defined as follows. (Line numbers are included for reference only.)

```csharp
01 [ServiceContract]
02 public interface IDataUpdate
03 {
04     [OperationContract]
05     [TransactionFlow(TransactionFlowOption.Mandatory)]
06     void Update(string accountNumber, double amount);
07 }
08
09 class UpdateService : IDataUpdate
10 {
11     [OperationContract(TransactionScopeRequired = true,
12      TransactionAutoComplete = true)]
13     public void Update(string accountNumber, double amount)
14     {
15         try
16         {
17             ...
18         }
19         catch(Exception ex)
20         {
21             WriteErrorLog(ex);
22         }
23     }
24 } // UpdateService
25
26
```

Customers report that the transaction completes successfully even if the Update method throws an exception.

You need to ensure that the transaction is aborted if the Update method is not successful. What should you do?
A. insert the following line at line 22. throw;
B. Insert the following line at line 09. [ServiceBehavior( TransactionAutoCompleteOnSessionClose = false)]
C. Replace line 12 with the following line. [OperationBehavior( TransactionScopeRequired = true, TransactionAutoCompletions = false)]

D. Insert the following line at line 09. [ServiceBehavior( TransactionAutoCompleteOnSessionClose = true)]

Answer: A

4. You are developing a Windows Communication Foundation (WCF) service.

You must record all available information for the first 1,000 messages processed, even if they are malformed.

You need to configure the message logging section of the configuration file. Which configuration segment should you use?

A. <messageLogging logEntireMessage="true" logMalformedMessages="true" logMessagesAtServiceLevel="true" logMessagesAtTransportLevel="true" maxMessagesToLog="1000"/>

B. <messageLogging logMessagesAtServiceLevel="true" logMessagesAtTransportLevel="true" maxMessagesToLog="1000"/>

C. <messageLogging logEntireMessage="false" logMessagesAtServiceLevel="true" logMessagesAtTransportLevel="false" maxMessagesToLog="1000"/>

D. <messageLogging logMalformedMessages="true" logMessagesAtServiceLevel="true" logMessagesAtTransportLevel="false" maxMessagesToLog="1000"/>

Answer: A

5. You are developing a Windows Communication Foundation (WCF) service to replace an existing A5MX Web service.

The WCF service contains the following code segment. (Line numbers are included for reference only.)

```csharp
[ServiceContract]
public interface IEmployeeService
{
    [OperationContract()]
    EmployeeInfo GetEmployeeInfo(int employeeID);
}

public class EmployeeService : IEmployeeService
{
    public EmployeeInfo GetEmployeeInfo(int employeeID)
    {
        EmployeeInfo employeeInfo = null;

        // Code to get employee information...

        return employeeInfo;
    }
}
```

The existing Web service returns the EmployeeID as an attribute of the EmployeeInfo element in the response XML.

You need to ensure that applications can consume the service without code changes in the client.
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

6. You are creating a Windows Communication Foundation (WCF) service that implements the following service contract.

```csharp
[ServiceContract]
public interface IOrderProcessing
{
    [OperationContract]
    void ApproveOrder(int id);
}
```

You need to ensure that only users with the Manager role can call the ApproveOrder method.

What should you do?

A. In the method body, check the Rights.PossessProperty property to see if it contains Manager.
B. Add a PrincipalPermission attribute to the method and set the Roles property to Manager.
C. Add a SecurityPermission attribute to the method and set the SecurityAction to Demand.
D. In the method body, create a new instance of WindowsClaimSet. Use the FindClaims method to locate a claimType named Role with a right named Manager.

Answer: B

7. DRAG DROP

You configure a Windows Communication Foundation (WCF) service. The service has a class named Person that includes the following code segment:
The Person class has the following requirements:

? The secret property must be encrypted and serialized in the SOAP header.
? The comments property must be transmitted in plain text and serialized in the SOAP body.
? The name property must be transmitted in plain text and serialized in the SOAP body.
? The service must ensure the integrity of the name property when data is transmitted.
? The service must not ensure the integrity of the comments property when data is transmitted.

You need to ensure that the Person class is serialized.

How should you complete the relevant code? (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:

A. Insert the following code at line 04. `[OperationContract(IsOneWay=true)]`
B. Insert the following code at line 04, `[OperationContract(AsyncPattern=false)]`

C. At line 05, change the GenerateReports method from private to public.

D. Remove line 08. At line 05, change the return type of GenerateReports method to void.

Answer: A,D

9. A Windows Communication Foundation (WCF) service implements the following contract.

```csharp
[ServiceContract] public interface IHelloService {
    [OperationContract] [WebGet(UriTemplate = "hello?name={name}")]
    string SayHello(string name);
}
```

The implementation is as follows.

```csharp
public class HelloService : IHelloService {
    public string SayHello(string name) {
        return "Hello " + name;
    }
}
```

The service is self-hosted, and the hosting code is as follows.

```csharp
WebServiceHost svcHost = CreateHoseO;
svcHost.OpenO; Console.ReadLineO; SrvHost.CloseO;
```

You need to implement CreateHost so that the service has a single endpoint hosted at http://localhost:8000/HelloService which code segment should you use?

A. `WebServiceHost svcHost new WebServiceHost(typeof(HelloService)); svcHost.AddServiceEndpoint(typeof(IHelloService), new WebHttpBinding(WebHttpSecurityMode.None), "http://localhost:8000/HelloService"); return svcHost;`

B. `Uri baseAddress = new Uri("http://localhost:8000"); WebServiceHost svcHost = new WebServiceHost(typeof(HelloService), baseAddress); svcHost.AddServiceEndpoint(typeof(IHelloService), new WebHttpBinding(WebHttpSecurityMode.None), "HelloService"); return svcHost;`

C. `WebServiceHost svcHost = new WebServiceHost(new HelloServiceO); svcHost.AddServiceEndpoint(typeof(IHelloService), new WebHttpBinding(WebHttpSecurityMode.None), "http://localhost:8000/HelloService"); return svcHost;`

D. `Uri baseAddress = new Uri("http://localhost 8000"); WebServiceHost svcHost = new WebServiceHost(new HelloServiceO, baseAddress); svcHost.AddServiceEndpoint(typeof(IHelloService), new WebHttpBinding(WebHttpSecurityMode.None), "HelloService"); return svcHost;`

Answer: A

10. You are hosting a Windows Communication Foundation (WCF) service at http://www.contoso.com for a law enforcement agency. The agency adds operations to support sending biometric fingerprint data via non-buffered streaming. The service data is not routed between intermediaries.

The WCF binding you are using by default does not support encryption.

You need to ensure that fingerprint data is not disclosed when it is passed over the network.

What should you do?

A. Use basicHttpBinding with message security to https://www.contoso.com.


Answer: B

11. You develop a Windows Communication Foundation (WCF) service that is hosted by using Windows Activation Services (WAS).
You need to configure the service to accept requests that use the TCP/IP protocol. What should you do? (Each correct answer presents part of the solution. Choose two.)

A. Run the aspnet_regiis executable to enable TCP/IP service activation.

B. In Control Panel, enable the Windows Communication Foundation HTTP Activation feature.

C. In Control Panel, enable the WCF Non-HTTP Activation feature.

D. Run the appcmd executable to enable TCP/IP service activation.

Answer: B,D

Explanation: B: Go to the Control Panel–> Program and Features and select Turn Windows features on or off. Then you need to select some options/components to install. Have a look at the picture below to see what those options are.

D: Example:

Now we need to enable those protocols on the CalculatorServiceSite website that hosts our WCF service. In the same Visual Studio 2010 command prompt window type:

appcmd.exe set app "Default Web Site/CalculatorServiceSite"

/enabledProtocols:http,net.pipe,net.tcp,net.msmq

Now we have enabled those protocols for our site. Now we are ready to expose endpoints over alternate protocols e.g. TCP, MSMQ. In this way we can have our WCF Service hosted in IIS and still consume it over the network with clients that support/understand the TCP/IP protocol.

Note:

Windows Process Activation Service generalizes the Internet Information Services (IIS) process model, removing the dependency on HTTP. All the features of IIS that were previously available only to HTTP applications are now available to applications hosting Windows Communication Foundation (WCF) services, by using non-HTTP protocols. IIS 7.0 also uses Windows Process Activation Service for message-based activation over HTTP.

12. You develop a Windows Communication Foundation (WCF) service.

You name the service MovieService in the Movie namespace. The service is hosted in Microsoft Internet Information Services (IIS).

You copy the assembly containing the service to the bin folder in the virtual directory path. You need to set up the URI that is mapped to the service.

What should you do?

A. Add the following code segment to the web.config file.

<serviceHostingEnvironment>
<serviceActivations>
B. Add a Movie.svc file in the root of the virtual path with the following line.

```xml
<%8ServiceHost language="C#" Service="MovieService.svc"%>
```

C. Add the following code segment to the web.config file.

```xml
<serviceHostingEnvironment>
<serviceActivations>
<odd relativeAddress="./Movie" service="Movie.MovieService"/>
</serviceActivations>
</serviceHostingEnvironment>
```

D. Add a Movie.svc file in the root of the virtual path with the following line.

```xml
<%8ServiceHost language="C#" Service="MovieService.svc"%>
```

Answer: B

13. A service implements the following contract. (Line numbers are included for reference only.)

```
[ServiceContract(SessionMode = SessionMode.Required)]
public interface IContosoService
{
[OperationContract(IsOneWay = true, IsInitiating = true)]
void OperationOne(string value);

[OperationContract(IsOneWay = true, IsInitiating = false)]
void OperationTwo(string value);
}
```

The service is implemented as follows.

```csharp
class ContosoService : IContosoService
{
    public void OperationOne(string value) { ... }
    public void OperationTwo(string value) { ... }
}
```

ContosoService uses NetMsmqBinding to listen for messages. The queue was set up to use transactions for adding and removing messages.

You need to ensure that OperationOne and OperationTwo execute under the same transaction context when they are invoked in the same session.

What should you do?

A. Insert the following attribute to OperationOne on IContosoService. `[TransactionFlow(TransactionFlowOption.Mandatory)]` Insert the following attribute to OperationTwo on IContosoService. `[TransactionFlow(TransactionFlowOption.Mandatory)]`

B. Insert the following attribute to OperationTwo on ContosoService. `[OperationBehavior(TransactionScopeRequired = true, TransactionAutoComplete = false)]` Insert the following attribute to OperationTwo on ContosoService. `[OperationBehavior(TransactionScopeRequired = false, TransactionAutoComplete = true)]`

C. Add the following XML segment to the application config file in the system.serviceModel/bindings configuration section.

```xml
<netMsmqBinding>
<binding name="contosoTx" durable="true" receiveContextEnabled="true" />
</netMsmqBinding>
```

Then use the NetMsmqBinding named contosoTx to listen for messages from the clients.

D. Add the following XML segment to the application config file in the system.serviceModel/bindings configuration section.

```xml
<customBinding>
<binding name="contosoTx"/>
</customBinding>
```
Then use the CustomBinding named contosoTx to listen for messages from the clients.

Answer: B

14. You are developing a Windows Communication Foundation (WCF) service. The following code defines and implements the service. (Line numbers are included for reference only.)

```
[ServiceContract(SessionMode = SessionMode.Allowed)]
public interface ICatchAll
{
    [OperationContract(IsOneWay = false, Action = "\*", ReplyAction = "\*"),
    MessageProcessMessage(Message message);
}

class CatchAllService : ICatchAll
{
    public Message ProcessMessage(Message message)
    {
        return returnMsg;
    }
}
```

You need to ensure that two identical copies of the received message are created in the service.

Which code segment should you insert at line 12?

A. Message msgCopy = message. CreateBufferedCopy(8192) as Message; Message returnMsg = message. CreateBufferedCopy(8192) as Message;
B. MessageBuffer buffer = message. CreateBufferedCopy(8192);
   Message msgCopy = buffer.CreateMessage(); Message returnMsg = buffer.CreateMessage();
C. MessageBuffer buffer = message. CreateBufferedCopy(8192);
   Message msgCopy = buffer.CreateMessage(); Message returnMsg = msgCopy;
D. Message msgCopy = message; Message returnMsg = message;

Answer: B

15. You develop a Windows Communication Foundation (WCF) service that interacts with Microsoft Message Queuing (MSMQ).

The service requires sessions. You need to create a custom binding that enables messages sent to the queue to be viewed when you are using a listener tool.

Which binding elements should you use?

A. textMessageEncoding and msmqTransport in this order
B. textMessageEncoding and msmqIntegrationTransport in this order
C. msmqTransport and textMessageEncoding in this order
D. msmqIntegrationTransport and textMessageEncoding in this order

Answer: A

16. You are developing a Windows Communication Foundation (WCF) service. One of the service operations contains the following code.

```
private static int counter = 0; [OperationContract]
public void IncrementCount()
{
    counter++;
}
```
You need to set a service behavior that prevents two or more threads from incrementing the counter variable at the same time.

Which code segment should you use to set the service behavior?

A. `[ServiceBehavior(
   InstanceContextMode = InstanceContextMode.Single, ConcurrencyMode = ConcurrencyMode.Single)]`

B. `[ServiceBehavior(
   InstanceContextMode = InstanceContextMode.PerSession, ConcurrencyMode = ConcurrencyMode.Single)]`

C. `[ServiceBehavior(
   InstanceContextMode = InstanceContextMode.Single, ConcurrencyMode = ConcurrencyMode.Multiple)]`

D. `[ServiceBehavior(
   InstanceContextMode = InstanceContextMode.PerCall, ConcurrencyMode = ConcurrencyMode.Reentrant)]`

Answer: A

17. You are modifying a Windows Communication Foundation (WCF) service that provides access to report generation system. The following code segment is part of your service contract. (Line numbers are included for reference only.)

Client applications are blocked while the service processes reports. You need to ensure that the service methods are asynchronous. What should you do?

A. Insert the following code at line 04. `[OperationContract]`

B. Insert the following code at line 07. `[OperationContract(AsyncPattern = true)]`

C. Insert the following code at line 04. `[OperationContract(AsyncPattern = false)]` Insert the following code at line 07. `[OperationContract(AsyncPattern = true)]`

D. Insert the following code at line 04. `[OperationContract (AsyncPattern = false)]`

Answer: B

18. You implement a Windows Communication Foundation (WCF) service.

You must process all of the valid SOAP messages that the service receives. What should you do?


C. On the OperationContractAttribute of a method, set the value of the Action and ReplyAction properties to *.

D. On the OperationContractAttribute of a method, set the value of the Action and ReplyAction properties to ?.

Answer: A

19. You develop a Windows Communication Foundation (WCF) RESTful service that provides media streaming services. The service includes the following code. (Line numbers are included for reference only.)

The service must return an XML response.

You need to apply the correct attribute to AddMediaTitle method. Which code segment should you insert at line 05?
20. You have a Windows Communication Foundation (WCF) service that uses a multicast protocol as a custom transport. The service implements the channel framework. You need to choose a message exchange pattern for the transport. What should you use?

A. Datagram by using the IOutputChannel interface for clients and the IInputChannel interface for the service.
B. Half-Duplex by using the IRequestChannel interface for clients and the IReplyChannel interface for the service.
C. Duplex by using the IDuplexChannel interface for both clients and the service.
D. Request-Response by using the IRequestChannel interface for clients and the IReplyChannel interface for the service.

Answer: A
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