

# **Exam 70-503 study material**

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## **Free 70-503 Exam Preparation Questions**

**Exam 70-503**: TS: MS.NET Framework 3.5, Windows Communication Foundation  
Application Developer

**Question: 1**

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service will validate certificates to authorize client applications. You write the following code segment. Class Store Implements IStore Public Sub RemoveOrder(ByVal ordered As Integer) \_ Implements IStore.RemoveOrder End Sub End Class You need to ensure that only those client applications that meet the following criteria can access the RemoveOrder method: "AdminUser" is the subject in the client certificate. "1bf47e90f00acf4c0089cda65e0aadcf1cedd592" is the thumbprint in the client certificate. What should you do?

A. Decorate the RemoveOrder method by using the following attribute.

```
<PrincipalPermission(SecurityAction.Demand,
    _Name:="AdminUser;1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the
serviceAuthorization element of the service behavior in the following manner.
<serviceAuthorization principalPermissionMode="Windows"/>
```

B. Decorate the RemoveOrder method by using the following attribute.

```
<PrincipalPermission(SecurityAction.Demand,
    _Role:="CN=AdminUser,1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the
serviceAuthorization element of the service behavior in the following manner. <serviceAuthorization
principalPermissionMode="Windows"/>
```

C. Decorate the RemoveOrder method by using the following attribute.

```
<PrincipalPermission(SecurityAction.Demand,
    _Role:="AdminUser,1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the
serviceAuthorization element of the service behavior in the following manner.
<serviceAuthorization principalPermissionMode="UseAspNetRoles"/>
```

D. Decorate the RemoveOrder method by using the following attribute.

```
<PrincipalPermission(SecurityAction.Demand,
    _Name:="CN=AdminUser;1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the
serviceAuthorization element of the service behavior in the following manner. <serviceAuthorization
principalPermissionMode="UseAspNetRoles"/>
```

**Answer: D**

**Question: 2**

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The client application is used in Company A, and the service application is used in Company B. Company A and company B have security token services named STS\_A and STS\_B respectively. You need to authenticate the client application by using federated security. Which combination of bindings should you use?

A. wsHttpBinding for the client application wsFederationHttpBinding for the WCF service  
wsFederationHttpBinding for the STS\_A service wsFederationHttpBinding for the STS\_B service

B. wsFederationHttpBinding for the client application wsFederationHttpBinding for the WCF service  
wsHttpBinding for the STS\_A service wsHttpBinding for the STS\_B service

C. wsHttpBinding for the client application wsFederationHttpBinding for the WCF service  
wsHttpBinding for the STS\_A service wsFederationHttpBinding for the STS\_B service

D. wsHttpBinding for the client application wsFederationHttpBinding for the WCF service  
wsFederationHttpBinding for the STS\_A service wsHttpBinding for the STS\_B service

**Answer: B**

**Question: 3**

You are creating a distributed application by using Microsoft .NET Framework 3.5. The application uses the Windows Communication Foundation model. You need to ensure that the following requirements are met: User authentication is performed at the message level. Data protection is performed at the transport level. Server authentication is performed at the transport level. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > </security> </binding> </wsHttpBinding></bindings>

- B. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Certificate" /> <message clientCredentialType="None"/> </security> </binding> </wsHttpBinding></bindings>
- C. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Windows" /> <message clientCredentialType="None"/> </security> </binding> </wsHttpBinding></bindings>
- D. <bindings> <netTcpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Certificate" /> <message clientCredentialType="Certificate"/> </security> </binding> </netTcpBinding></bindings>

**Answer: A, D**

**Question: 4**

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service must authenticate the client applications by validating credit card numbers and expiry dates. You write the following code segment. (Line numbers are included for reference only.)

```
01 Class CreditCardTokenAuthenticator02 Inherits SecurityTokenAuthenticator03 Protected
  Overrides Function ValidateTokenCore( _ ByVal token As SecurityToken) _ As
  ReadOnlyCollection(Of IAuthorizationPolicy) 04 Dim _creditCardToken As CreditCardToken = _
  CType(token, CreditCardToken)05 06 End Function 07 Private Function IsCardValid( _ ByVal
  cardNumber As String, _ ByVal expirationDate As DateTime) _ As Boolean 08 'Validation code
  comes here 09 End Function10 End Class
```

You need to implement custom authentication for the WCF service. Which code segment should you insert at line 05?

- A. If IsCardValid(\_creditCardToken.CardNumber, \_\_creditCardToken.ValidTo) Then Return NothingElse Throw New SecurityTokenValidationException()End If
- B. If IsCardValid(\_creditCardToken.CardNumber, \_\_creditCardToken.ValidTo) Then Throw New SecurityTokenValidationException()Else Return NothingEnd If
- C. If IsCardValid(\_creditCardToken.CardNumber, \_\_creditCardToken.ValidTo) Then Return NothingElse Return New List(Of IAuthorizationPolicy)(0).AsReadOnly()End If
- D. If IsCardValid(\_creditCardToken.CardNumber, \_\_creditCardToken.ValidTo) Then Return New List(Of IAuthorizationPolicy)(0).AsReadOnly()Else Return NothingEnd If

**Answer: D**

**Question: 5**

You are creating a distributed application by using Microsoft .NET Framework 3.5. The application uses Windows Communication Foundation (WCF). The distributed application provides point-to-point security. You need to ensure that the distributed application provides end-to-end security instead of point-to-point security. Which binding mode should you use?

- A. netTcpBinding with Transport security
- B. wsHttpBinding with Transport security
- C. wsHttpBinding with Message security
- D. netNamedPipeBinding with Transport security

**Answer: C**

**Question: 6**

You are creating an application in Windows Communication Foundation (WCF) by using Microsoft .NET Framework 3.5. You need to ensure that the client application communicates with the service by using a duplex contract. Which five actions should you perform? (To answer, move the five appropriate actions from the list of actions to the answer area, and arrange them in the correct order.) Answer: Check CertWays eEngine, Download from Member Center Question: 78 You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted on a Web server. You need to ensure that the service is able to access the current HttpContext instance. Which configuration settings and attribute should you use?

- A. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="true" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Allowed)]

- B. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="false" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Allowed)]
- C. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="true" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.NotAllowed)]
- D. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="false" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Required)]

**Answer: A**

**Question: 7**

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a Windows Service environment. You need to create a Windows Service class that instantiates a service host. Which code segment should you use?

- A. Public Class WindowsExamService Inherits ServiceController Private \_serviceHost As ServiceHost Public Shadows Sub Start() serviceHost = New ServiceHost(GetType(ExamService)) \_serviceHost.Open() End SubEnd Class
- B. Public Class WindowsExamService Inherits ServiceHostBase Private \_serviceHost As ServiceHost Public Shadows Sub Open() \_serviceHost = New ServiceHost(GetType(ExamService)) \_serviceHost.Open() End SubEnd Class
- C. Public Class WindowsExamService Inherits ServiceBase Private \_serviceHost As ServiceHost Protected Overrides Sub OnStart(ByVal args() As String) \_serviceHost = New ServiceHost(GetType(ExamService)) \_serviceHost.Open() End SubEnd Class
- D. Public Class WindowsExamService Inherits ServiceHost Private \_serviceHost As ServiceHost Public Shadows Sub Open() \_serviceHost = New ServiceHost(GetType(ExamService)) \_serviceHost.Open() End SubEnd Class

**Answer: C**

**Question: 8**

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be exposed for consumption. You need to ensure that the service supports interoperability with the broadest possible number of Web Service toolkits. The service must also support transport-level security. Which configuration setting should you use?

- A. <endpoint address="" binding="basicHttpBinding" contract="IContract"></endpoint>
- B. <endpoint address="" binding="wsHttpBinding" contract="IContract"></endpoint>
- C. <endpoint address="" binding="wsDualHttpBinding" contract="IContract"></endpoint>
- D. <endpoint address="" binding="wsFederationHttpBinding" contract="IContract"></endpoint>

**Answer: A**

**Question: 9**

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You find that the service starts even though the endpoints have not been configured correctly. You need to create a custom service behavior that throws an exception if the list of endpoints that are configured is not complete. Which code segment should you use?

- A. Class CustomBehavior Implements IServiceBehavior Public Sub Validate(ByVal serviceDescription \_ As ServiceDescription, \_ ByVal serviceHostBase As ServiceHostBase) \_ Implements IServiceBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class
- B. Class CustomBehavior Implements IEndpointBehavior Public Sub Validate(ByVal endpoint As ServiceEndpoint) \_ Implements IEndpointBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class
- C. Class CustomBehavior Implements IContractBehavior Public Sub Validate(ByVal contractDescription \_ As ContractDescription, \_ ByVal endpoint As ServiceEndpoint) \_ Implements IContractBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class

D. Class CustomBehavior Implements IOperationBehavior Public Sub Validate(ByVal operationDescription As \_ OperationDescription) \_ Implements IOperationBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class

**Answer: A**

**Question: 10**

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a managed Console application. The service endpoint has an address that is relative to the base address of the service. You need to programmatically add the base address to the service. What should you do?

- A. Call a constructor of the ServiceHost class.
- B. Call an AddServiceEndpoint method of the ServiceHost class.
- C. Create and add a custom endpoint behavior to the service.
- D. Create and add a custom operation behavior to the service.

**Answer: A**

**Question: 11**

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to use a custom service host to host the WCF service in Windows Activation Services (WAS). What should you do?

- A. Write hosting code for the WCF service.
- B. Add a reference to the custom service host in the web.config file.
- C. Add code to instantiate the custom service host from within the main procedure of the WCF service.
- D. Create a custom service host factory that instantiates the custom service host. Include a reference to this factory in the .svc file.

**Answer: D**

**Question: 12**

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following XML code fragment. <service name="Contoso.Exams.ExamService" behaviorConfiguration="ExamServiceBehavior"> <host><baseAddresses><add baseAddress="http://localhost:8000/ServiceModelExam/service"/></baseAddresses></host> </service> You need to add an endpoint definition to the service configuration for the URL http://localhost:8000/ServiceModelExam/service to expose the Contoso.Exams.IExam service contract. Which definition should you add?

- A. <endpoint address="" binding="wsHttpBinding" contract="Contoso.Exams.IExam" />
- B. <endpoint address="/service" binding="wsHttpBinding" contract="Contoso.Exams.IExam" />
- C. <endpoint address="/service" binding="basicHttpBinding" contract="Contoso.Exams.IExam" />
- D. <endpoint address="http://localhost:8000/ServiceModelExam/service" binding="basicHttpBinding" contract="IExam" />

**Answer: A**

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