

**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 remote database management application by using Microsoft Windows Forms and Microsoft .NET Framework 3.5. You use the Windows Communication Foundation model to create the application. You write the following code segment. (Line numbers are included for reference only.)

```
01 Public Class QueryAnalyzerService 02 Implements IQueryAnalyzerService,
IDisposable 03 04 Public Sub Open() 05 ... 06 End Sub 07 Public Sub
ExecuteSql(ByVal sql As String) 08 ... 09 End Sub 10 Public Sub Close() 11 ... 12
End Sub 13 Public Sub Dispose() Implements IDisposable.Dispose 14 ... 15 End
Sub 16 ... 17 End Class
```

You need to ensure that each time a client application calls the Open() method, a new service instance is created.

Which code segment should you insert at line 03?

- A. <OperationBehavior(TransactionScopeRequired:=True)> \_
- B. <OperationBehavior(AutoDisposeParameters:=True)> \_
- C. <OperationBehavior( \_ ReleaseInstanceMode:=ReleaseInstanceMode.None)> \_
- D. <OperationBehavior( \_ ReleaseInstanceMode:=ReleaseInstanceMode.BeforeCall)> \_

**Answer: D**

**Question: 2**

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET framework 3.5. You write the following code segment for a service contract.

```
<ServiceContract()> _ Public Interface IOrderManager <OperationContract()> _ Sub ProcessOrder(ByVal orderId As
Integer) End Interface
```

You need to ensure that the WCF service meets the following requirements: The ProcessOrder method uses transactions. The ProcessOrder method commits automatically if no exception occurs. Which method implementation should you use?

- A. <TransactionFlow(TransactionFlowOption.NotAllowed)> \_ <OperationBehavior()> \_ Public Sub ProcessOrder(ByVal orderId As Integer) \_ Implements IOrderManager.ProcessOrderEnd Sub
- B. <OperationBehavior(TransactionScopeRequired:=True, \_ TransactionAutoComplete:=True)> \_ Public Sub ProcessOrder(ByVal orderId As Integer) \_ Implements IOrderManager.ProcessOrderEnd Sub
- C. <TransactionFlow(TransactionFlowOption.Allowed)> \_ <OperationBehavior(TransactionScopeRequired:=False, \_ TransactionAutoComplete:=True)> \_ Public Sub ProcessOrder(ByVal orderId As Integer) \_ Implements IOrderManager.ProcessOrderEnd Sub
- D. <TransactionFlow(TransactionFlowOption.Allowed)> \_ <OperationBehavior(ReleaseInstanceMode:= \_ ReleaseInstanceMode.AfterCall, \_ TransactionScopeRequired:=True, \_ TransactionAutoComplete:=False)> \_ Public Sub ProcessOrder(ByVal orderId As Integer) \_ Implements IOrderManager.ProcessOrderEnd Sub

**Answer: B**

**Question: 3**

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
01 <ServiceContract()> _ 02 Public Class MyService 03 <OperationContract()> _ 04 05 Public Sub MyMethod() 06 End
Sub 07 End Class
```

The service uses a transactional binding. The TransactionFlow property for the binding is set to True. You need to ensure that the MyMethod method meets the following requirements: The method uses a client-side transaction if a client-side transaction exists. The method uses a server-side transaction if a client-side transaction does not exist. Which code segment should you insert at line 04?

- A. <OperationBehavior(TransactionScopeRequired:=True)> \_ <TransactionFlow(TransactionFlowOption.Allowed)> \_
- B. <OperationBehavior(TransactionScopeRequired:=True)> \_ <TransactionFlow(TransactionFlowOption.Mandatory)> \_
- C. <OperationBehavior(TransactionScopeRequired:=False)> \_ <TransactionFlow(TransactionFlowOption.Allowed)> \_
- D. <OperationBehavior(TransactionScopeRequired:=False)> \_ <TransactionFlow(TransactionFlowOption.Mandatory)> \_

**Answer: A**

**Question: 4**

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5.

You write the following code segment to define the service. (Line numbers are included for reference only.)

```
01 02 Public Interface IMyService 03 <OperationContract()> _ 04 Sub ProcessOrder(ByVal orderId As Integer) 05 End
Interface 06 Public Class ServiceImpl 07 Implements IMyService 08
<OperationBehavior(TransactionAutoComplete:=False, _ 09 TransactionScopeRequired:=True)> _ 10 Public Sub
```

ProcessOrder(ByVal orderId As Integer) \_ 11 Implements IMyService.ProcessOrder 12 13 End Sub 14 End Class  
You need to set the ServiceContract attribute for the transaction behavior of the service. Which code segment should you insert at line 01?

- A. <ServiceContract(SessionMode:=SessionMode.Required)> \_
- B. <ServiceContract(SessionMode:=SessionMode.Allowed)> \_
- C. <ServiceContract(SessionMode:=SessionMode.Allowed, \_  
ProtectionLevel:=ProtectionLevel.EncryptAndSign)> \_
- D. <ServiceContract(SessionMode:=SessionMode.NotAllowed, \_  
ProtectionLevel:=ProtectionLevel.EncryptAndSign)> \_

**Answer: A**

**Question: 5**

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: 6**

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: 7**

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: 8**

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: 9**

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: 10**

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**

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