

Exam : Microsoft 70-551VB

**Title : Upgrade: MCAD Skills to
MCPD Dvlpr by Using the
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Version : Demo



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1. You create an application for your business partners to submit purchase orders. The application deserializes XML documents sent by your partners into instances of an object named PurchaseOrder. You need to modify the application so that it collects details if the deserialization process encounters any XML content that fails to map to public members of the PurchaseOrder object. What should you do?

- A. Define and implement an event handler for the XmlSerializer.UnknownNode event.
- B. Define a class that inherits from XmlSerializer and overrides the XmlSerialize.FromMappings method.
- C. Apply an XmlInclude attribute to the PurchaseOrder class definition.
- D. Apply an XmlIgnore attribute to the PurchaseOrder class definition.

Answer: A

2. You are creating a class that performs complex financial calculations. The class contains a method named GetCurrentRate that retrieves the current interest rate and a variable named currRate that stores the current interest rate. You write serialized representations of the class. You need to write a code segment that updates the currRate variable with the current interest rate when an instance of the class is deserialized. Which code segment should you use?

- A. `<OnSerializing> _Friend Sub UpdateValue (ByVal context As StreamingContext) currRate = GetCurrentRate()End Sub`
- B. `<OnSerializing> _ Friend Sub UpdateValue(ByVal info As SerializationInfo) info.AddValue("currentRate", GetCurrentRate())End Sub`
- C. `<OnDeserializing> _ Friend Sub UpdateValue(ByVal info As SerializationInfo) info.AddValue("currentRate", GetCurrentRate())End Sub`
- D. `<OnDeserialized> _Friend Sub UpdateValue (ByVal context As StreamingContext) currRate = GetCurrentRate()End Sub`

Answer: D

3. You create a class library that contains the class hierarchy defined in the following code segment. (Line numbers are included for reference only.)

- 01 Public Class Group
- 02 Public Employees As Employee()
- 03 End Class

- 04
- 05 Public Class Employee
- 06 Public Name As String
- 07 End Class
- 08
- 09 Public Class Manager
- 10 Inherits Employee
- 11 Public Level As Integer
- 12 End Class

You create an instance of the Group class. You populate the fields of the instance. When you attempt to serialize the instance by using the Serialize method of the XmlSerializer class, you receive InvalidOperationException. You also receive the following error message: "There was an error generating the XML document." You need to modify the code segment so that you can successfully serialize instances of the Group class by using the XmlSerializer class. You also need to ensure that the XML output contains an element for all public fields in the class hierarchy. What should you do?

- A. Insert the following code between lines 1 and 2 of the code segment:
`<XmlArrayItem(Type:=GetType(Employee))> _ <XmlArrayItem(Type:=GetType(Manager))> _`
- B. Insert the following code between lines 1 and 2 of the code segment:
`<XmlElement(Type:=GetType(Employee))> _`
- C. Insert the following code between lines 1 and 2 of the code segment:
`<XmlArray(ElementName:="Employees")> _`
- D. Insert the following code between lines 5 and 6 of the code segment:
`<XmlElement(Type:=GetType(Employee))>` and insert the following code between lines 10 and 11 of the code segment: `<XmlElement(Type:=GetType(Manager))>`

Answer: A

4. You are writing a method to compress an array of bytes. The bytes to be compressed are passed to the method in a parameter named document. You need to compress the contents of the incoming parameter. Which code segment should you use?

- A. Dim inStream As New MemoryStream(document)Dim zipStream As New GZipStream(_inStream,

```
CompressionMode.Compress)Dim result(document.Length) As BytezipStream.Write(result, 0, result.Length)Return result
```

```
B. Dim objStream As New MemoryStream(document)Dim zipStream As New GZipStream(_ objStream, CompressionMode.Compress)zipStream.Write(document, 0, document.Length)zipStream.Close()Return objStream.ToArray
```

```
C. Dim outputStream As New MemoryStreamDim zipStream As New GZipStream(_outStream, CompressionMode.Compress)zipStream.Write(document, 0, document.Length)zipStream.Close()Return outputStream.ToArray
```

```
D. Dim objStream As New MemoryStream(document)Dim zipStream As New GZipStream(_objStream, CompressionMode.Compress)Dim outputStream As New MemoryStreamDim b As IntegerWhile (b = zipStream.ReadByte)outputStream.WriteByte(CByte(b))End WhileReturn outputStream.ToArray
```

Answer: C

5. You are writing a method to compress an array of bytes. The array is passed to the method in a parameter named document. You need to compress the incoming array of bytes and return the result as an array of bytes. Which code segment should you use?

```
A. Dim objStream As New MemoryStream(document)Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)Dim result(document.Length) As ByteobjDeflate.Write(result, 0, result.Length)Return result
```

```
B. Dim objStream As New MemoryStream(document)Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)objDeflate.Write(document, 0, document.Length)objDeflate.Close()Return objStream.ToArray
```

```
C. Dim objStream As New MemoryStream()Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)objDeflate.Write(document, 0, document.Length)objDeflate.Close()Return objStream.ToArray
```

```
D. Dim objStream As New MemoryStream()Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)Dim outputStream As New MemoryStreamDim b As IntegerWhile (b = objDeflate.ReadByte) outputStream.WriteByte(CByte(b))End WhileReturn outputStream.ToArray
```

Answer: C

6. You are changing the security settings of a file named MyData.xml. You need to preserve the existing inherited access rules. You also need to prevent the access rules from inheriting changes in the future. Which code segment should you use?

- A. `Dim objSecurity As New FileSecurity(_ "MyData.xml", AccessControlSections.All)objSecurity.SetAccessRuleProtection(True, True)File.SetAccessControl("MyData.xml", objSecurity)`
- B. `Dim objSecurity As New FileSecurity()objSecurity.SetAccessRuleProtection(True, True)File.SetAccessControl("MyData.xml", objSecurity)`
- C. `Dim objSecurity As FileSecurity = _File.GetAccessControl("MyData.xml")objSecurity.SetAccessRuleProtection(True, True)`
- D. `Dim objSecurity As FileSecurity = _File.GetAccessControl("MyData.xml")objSecurity.SetAuditRuleProtection(True, True)File.SetAccessControl("myData.xml", objSecurity)`

Answer: A

7. You are creating an assembly named Assembly1. Assembly1 contains a public method. The global cache contains a second assembly named Assembly2. You must ensure that the public method is only called from Assembly2. Which permission class should you use?

- A. `GacIdentityPermission`
- B. `PublisherIdentityPermission`
- C. `DataProtectionPermission`
- D. `StrongNameIdentityPermission`

Answer: D

8. You create a `DirectorySecurity` object for the working directory. You need to identify the user accounts and groups that have read and write permissions. Which method should you use on the `DirectorySecurity` object?

- A. the `GetAuditRules` method
- B. the `GetAccessRules` method
- C. the `AccessRuleFactory` method

D. the AuditRuleFactory method

Answer: B

9. You are developing an application that runs by using the credentials of the end user. Only users who are members of the Administrator group get permission to run the application. You write the following security code to protect sensitive data within the application.

```
Dim blnAdmin As Boolean = False
```

```
Dim objRole As WindowsBuiltInRole = _
```

```
WindowsBuiltInRole.Administrator
```

```
If blnAdmin = False Then
```

```
Throw New Exception("User not permitted")
```

```
End If
```

You need to add a code segment to this security code to ensure that the application throws an exception if a user is not a member of the Administrator group. Which code segment should you use?

A. Dim objUser As WindowsPrincipal = _DirectCast(Thread.CurrentPrincipal, WindowsPrincipal)blnAdmin = objUser.IsInRole(objRole)

B. Dim objUser As WindowsIdentity = WindowsIdentity.GetCurrentFor Each objGroup As IdentityReference In objUser.GroupsDim objAccount As NTAccount = _ DirectCast(objGroup.Translate(_ Type.GetType("NTAccount")), NTAccount)blnAdmin = objGroup.Value.Equals(objRole)Next

C. Dim objUser As GenericPrincipal = _DirectCast(Thread.CurrentPrincipal, GenericPrincipal)blnAdmin = objUser.IsInRole(objRole.ToString)

D. Dim objUser As WindowsIdentity = _DirectCast(Thread.CurrentPrincipal.Identity, WindowsIdentity)blnAdmin = objUser.Name.EndsWith("Administrator")

Answer: A

10. You are developing an auditing application to display the trusted ClickOnce applications that are installed on a computer. You need the auditing application to display the origin of each trusted application. Which code segment should you use?

A. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As ApplicationTrust In objTrusts

```
Console.WriteLine(objTrust.ToString)Next
```

```
B. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As ApplicationTrust In objTrusts Console.WriteLine(objTrust.ExtraInfo.ToString)Next
```

```
C. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As ApplicationTrust In objTrusts Console.WriteLine(objTrust.ApplicationIdentity.FullName.ToString)Next
```

```
D. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As Object In objTrusts Console.WriteLine(objTrust.ToString)Next
```

Answer: C

11. You are developing an application that will use custom authentication and role-based security. You need to write a code segment to make the runtime assign an unauthenticated principal object to each running thread. Which code segment should you use?

```
A. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetPrincipalPolicy( _ PrincipalPolicy.WindowsPrincipal)
```

```
B. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetThreadPrincipal(New WindowsPrincipal(Nothing))
```

```
C. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetAppDomainPolicy( _ PolicyLevel.CreateAppDomainLevel())
```

```
D. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetPrincipalPolicy( _ PrincipalPolicy.UnauthenticatedPrincipal)
```

Answer: D

12. You are developing a server application that will transmit sensitive information on a network. You create an X509Certificate object named certificate and a TcpClient object named client. You need to create an SslStream to communicate by using the Transport Layer Security 1.0 protocol. Which code segment should you use?

- A. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, _ SslProtocols.None, True)
- B. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, _ SslProtocols.Ssl3, True)
- C. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, _ SslProtocols.Ssl2, True)
- D. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, _ SslProtocols.Tls, True)

Answer: D

13. You are developing a method to call a COM component. You need to use declarative security to explicitly request the runtime to perform a full stack walk. You must ensure that all callers have the required level of trust for COM interop before the callers execute your method. Which attribute should you place on the method?

- A. <SecurityPermission(SecurityAction.Demand, _
Flags:=SecurityPermissionFlag.UnmanagedCode) _>
- B. <SecurityPermission(SecurityAction.LinkDemand, _
Flags:=SecurityPermissionFlag.UnmanagedCode) _>
- C. <SecurityPermission(SecurityAction.Assert, _
Flags:=SecurityPermissionFlag.UnmanagedCode) _>
- D. <SecurityPermission(SecurityAction.Deny, _
Flags:=SecurityPermissionFlag.UnmanagedCode) _>

Answer: A

14. You are developing an application that will deploy by using ClickOnce. You need to test if the application executes properly. You need to write a method that returns the object, which prompts the user to install a ClickOnce application. Which code segment should you use?

- A. Return ApplicationSecurityManager.ApplicationTrustManager
- B. Return AppDomain.CurrentDomain.ApplicationTrust
- C. Return new HostSecurityManager

D. Return SecurityManager.PolicyHierarchy

Answer: A

15. You are developing a method to hash data with the Secure Hash Algorithm. The data is passed to your method as a byte array named message. You need to compute the hash of the incoming parameter by using SHA1. You also need to place the result into a byte array named hash. Which code segment should you use?

A. Dim objSHA As New SHA1CryptoServiceProviderDim hash() As Byte = NothingobjSHA.TransformBlock(message, 0, message.Length, hash, 0)

B. Dim objSHA As New SHA1CryptoServiceProviderDim hash() As Byte = BitConverter.GetBytes(objSHA.GetHashCode)

C. Dim objSHA As New SHA1CryptoServiceProviderDim hash() As Byte = objSHA.ComputeHash(message)

D. Dim objSHA As New SHA1CryptoServiceProviderobjSHA.GetHashCode()Dim hash() As Byte = objSHA.Hash

Answer: C



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