Vendor: Microsoft

Exam Code:70-513

Exam Name:TS: Windows Communication Foundation velopment with Microsoft .NET Framework 4

Version: Demo

QUESTION 1

You are developing a Windows Communication Foundation (WCF) service that is used to check the status of orders placed by customers. The following code segment is part of your service. (Line numbers are included for reference only.)

```
01  [ServiceContract]
02  public interface IStatus
03  {
04    [OperationContract]
05    int GetOrderStatus(string orderNumber);
06  }
07
08  class OrderService : IStatus
09  {
10    public int GetOrderStatus(string orderNumber)
11    {
12      …
13    }
14  }
15
16  class Program
17  {
18    static void Main(string[] args)
19    {
20
21
22      host.Open();
23      …
24    }
25  }
```


You need to ensure that the service always listens at net.pipe://SupplyChainServer/Pipe. What should you do?

A.

```
Insert the following code at line 20.
ServiceHost host = new ServiceHost(typeof(OrderService));

Insert the following code at line 21.
host.AddServiceEndpoint(typeof(OrderService),
 new NetNamedPipeBinding(),
 "net.pipe://SupplyChainServer/Pipe");
```

B.

```
Insert the following code at line 20.
ServiceHost host = new ServiceHost(typeof(OrderService));

Insert the following code at line 21.
host.AddServiceEndpoint(typeof(IStatus),
 new NetNamedPipeBinding(),
 "net.pipe://SupplyChainServer/Pipe");
```

C.

```
Insert the following code at line 20.
ServiceHost host = new ServiceHost(typeof(IStatus));

Insert the following code at line 21.
host.AddServiceEndpoint(typeof(IStatus),
 new NetTcpBinding(),
 "net.pipe://SupplyChainServer/Pipe");
```

D.

```
Insert the following code at line 20.
ServiceHost host = new ServiceHost(typeof(IStatus));

Insert the following code at line 21.
host.AddServiceEndpoint(typeof(OrderService),
 new NetTcpBinding(),
 "net.pipe://SupplyChainServer/Pipe");
```


A. B. C. D.

Correct Answer: B

QUESTION 2

You are creating a Windows Communication Foundation (WCF) service that uses claims- based authorization. The following code retrieves the correct claim set.

var claims = ServiceSecurityContext.Current.

AuthorizationContext.ClaimSets[0];

You need to validate that the requesting client application has included a valid DNS value in the claim.

Which code segment should you use to retrieve the claim for validation?

A. claims.FindClaims(ClaimTypes.Dns, Rights.PossessProperty) .FirstOrDefault();

B. claims.FindClaims(ClaimTypes.Dns, Rights.Identity) .FirstOrDefault();

C. claims.ContainsClairo(Claim.CreateDnsClaim(ClaimTypes.Dns));

D. claims.Equals(ClaimTypes.Dns);

Correct Answer: A

Explanation: ClaimSet can has only one Rights.Identity claim. It contains user identity information. All additional data, like DNS, stored in claims with PossessProperty rights

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QUESTION 3

A Windows Communication Foundation (WCF) solution uses the following contract to share a message across its clients.

(Line numbers are included for reference only.)

01 [ServiceContract]

02 public interface ITeamMessageService

03 {

04 [OperationContract]

05 string GetMessage0;

07 [OperationContract]

08 void PutMessage(string message);

09)

The code for the service class is as follows

10 public class TeamMessageService: ITeamMessageService

11 {

12 Guid key = GuicLNewGuidO;

13 string message = “Today’s Message”:

14 public string GetMessage()

15 {

16 return stringFormat(”Message:{0} Key:{1}”, message, Key);

17

18

19 public void PutMessage(string message)

20 {

21 thismessage = message;

22 }

23)

The senvice is self-hosted. The hosting code is as follows.

24 ServiceHost host =

25 BasicHttpBinding binding = new BasicHttpBinding(BasicHttpSecuntyMode.None):

26 host AddServiceEndpoint(HMyApplication lTeamMessageService, binding, “http:/Ilocalhost: 12345w);

27 host Open0;)

You need to ensure that all clients calling GetMessage will retrieve the same string, even if the message is updated by clients calling PutMessage

What should you do?

A. Add the following attribute to the TeamMessageService class, before line 10. [ServiceBehavior(lnstanceContextMode = lnstanceContextMode. Single)]

B. Add the following attribute to the TeamMessageService class, before line 10. [ServiceBehavior(lnstanceContextMode = lnstanceContextModePerSession)J Then change the binding definition on the service at line 25, and on the client to the following WSHttpBinding binding new WSHttpBinding(SecurityModeNone); binding ReliableSession. Enabled true;

C. Pass a service instance to the instancing code in line 24, as follows. ServiceHost host = new ServiceHost(new TeamMessageServiceO);

D. Redefine the message string in line 13, as follows static string message = `Today\\'s Message": Then change the implementation of PutMessage in lines 19-22 to the following public void PutMessage(string message) { TeamMessageServicemessage message, }

Correct Answer: A

QUESTION 4

You are developing a Windows Communication Foundation (WCF) service to replace an existing ASMX Web service. The WCF service contains the following code segment. (Line numbers are included for reference only.)

```
01  <ServiceContract()>
02
03  Public Interface IEmployeeService
04
05      <OperationContract()>
06      Function GetEmployeeInfo(
         ByVal employeeID As Integer) As EmployeeInfo
07
08  End Interface
09
10  Public Class EmployeeService
11      Implements IEmployeeService
12
13      Public Function GetEmployeeInfo(
         ByVal employeeID As Integer) As EmployeeInfo _
14        Implements IEmployeeService.GetEmployeeInfo
15
16        ...
17
18      End Function
19  End Class
20
21  Public Class EmployeeInfo
22
23      Public Property EmployeeID As Integer
24      Public Property FirstName As String
25      Public Property LastName As String
26
27  End Class
```


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.

What should you do?

A. Insert the following code at line 02. Insert the following code at line 22.

B. Insert the following code at line 02. Insert the following code at line 22.

C. Insert the following code at line 09. Insert the following code at line 22.

D. Insert the following code at line 20. Insert the following code at line 22.

Correct Answer: D

QUESTION 5

A Windows Communication Foundation (WCF) client application is consuming an RSS syndication feed from a blog. You have a SyndicationFeed variable named feed. The application iterates through the items as follows. (Line numbers are included for reference only.)

01 foreach (SyndicationItem item in feed.Items)

02 {

03 }

You need to display the content type and body of every syndication item to the console.

Which two lines of code should you insert between lines 02 and 03?

A. Console.WriteLine(item.Content.Type); Console.WriteLine(((TextSyndicationContent)item.Content).Text);

B. Console.WriteLine(item.Content.GetType()); Console.WriteLine(((TextSyndicationContent)item.Content).Text);

C. Console.WriteLine(item.Content.Type); Console.WriteLine(item.Content.ToString());

D. Console.WriteLine(item.Content.GetType()); Console.WriteLine(item.Content.ToString());

Correct Answer: A

QUESTION 6

You are developing a Windows Communication Foundation (WCF) service that returns location information for authorized law enforcement agencies. The service contract is as follows.

[ServiceContract]

public interface IMappingService

{

[OperationContract]

long[] GetLocationCoordinates(String cityNaroe);

[OperationContract]

long[] GetLocationOfCitizen(String ssn) ;

}

Users are authenticated and impersonated. The system uses ASP.NET roles. The members of law enforcement are members of the LawEnforcement role.

You need to ensure that only members of the LawEnforcement role can call these methods.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. Add a PrincipalPermissionAttribute to each method that should be available only to members of law enforcement. Set its SecurityAction to Demand and set the role equal to LawEnforcement.

B. Use the CurrentPrincipal property of the thread. Call the IsInRole method specifying LawEnforcement as a parameter.

C. Create a GenericPrincipal specifying Thread.CurrentPrincipal.Identity as the IIdentityParameter and LawEnforcement as the only value for the Roles parameter.

D. At the beginning of each method, enumerate each ClaimSet in a new WindowsClaimSet. Use the FindClaims method to locate a claim type named Role with a right named LawEnforcement.

Correct Answer: AB

QUESTION 7

You are developing a Windows Communication Foundation (WCF) service that returns location information for authorized law enforcement agencies. The service contract is as follows.

```
<ServiceContract()>
Public Interface IMappingService

  <OperationContract()>
  Function GetLocationCoordinates(
   ByVal cityName As String) As Long()
  <OperationContract()>
  Function GetLocationOfCitizen(
   ByVal ssn As String) As Long()

End Interface
```


Users are authenticated and impersonated. The system uses ASP.NET roles. The members of law enforcement are members of the LawEnforcement role.

You need to ensure that only members of the LawEnforcement role can call these methods.

What are two possible ways to achieve this goal (Each correct answer presents a complete solution? Choose two.)

A. Add a PrincipalPermissionAttribute to each method that should be available only to members of law enforcement. Set its SecurityAction to Demand and set the role equal to LawEnforcement.

B. Use the CurrentPrincipal property of the thread. Call the IsInRole method specifying LawEnforcement as a parameter.

C. Create a GenericPrincipal specifying Thread.CurrentPrincipal.Identity as the IIdentityParameter and LawEnforcement as the only value for the Roles parameter.

D. At the beginning of each method, enumerate each ClaimSet in a new WindowsClaimSet. Use the FindClaims method to locate a claim type named Role with a right named LawEnforcement.

Correct Answer: AB

QUESTION 8

You use Visual Studio to develop a Windows Communication Foundation (WCF) service.

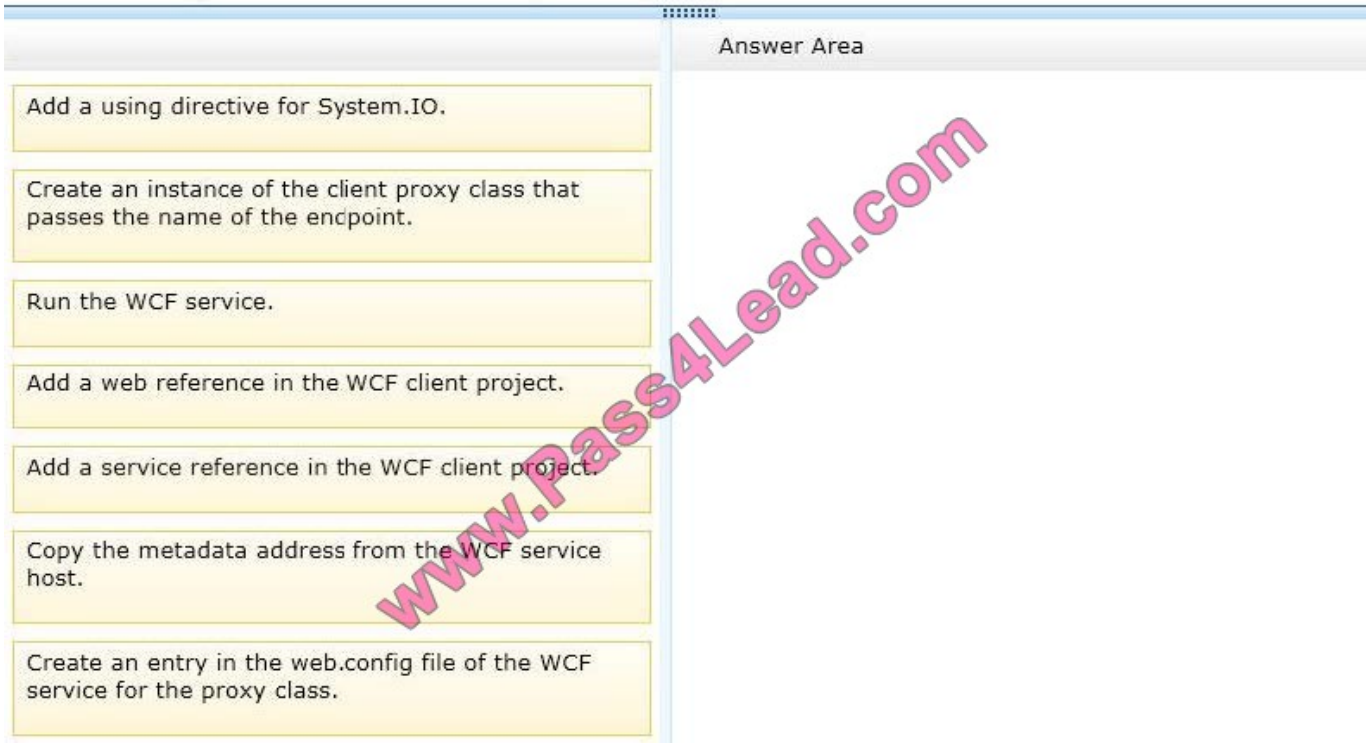
The service is not hosted.

You cannot use the WcfTestClient.exe tool to test the service.

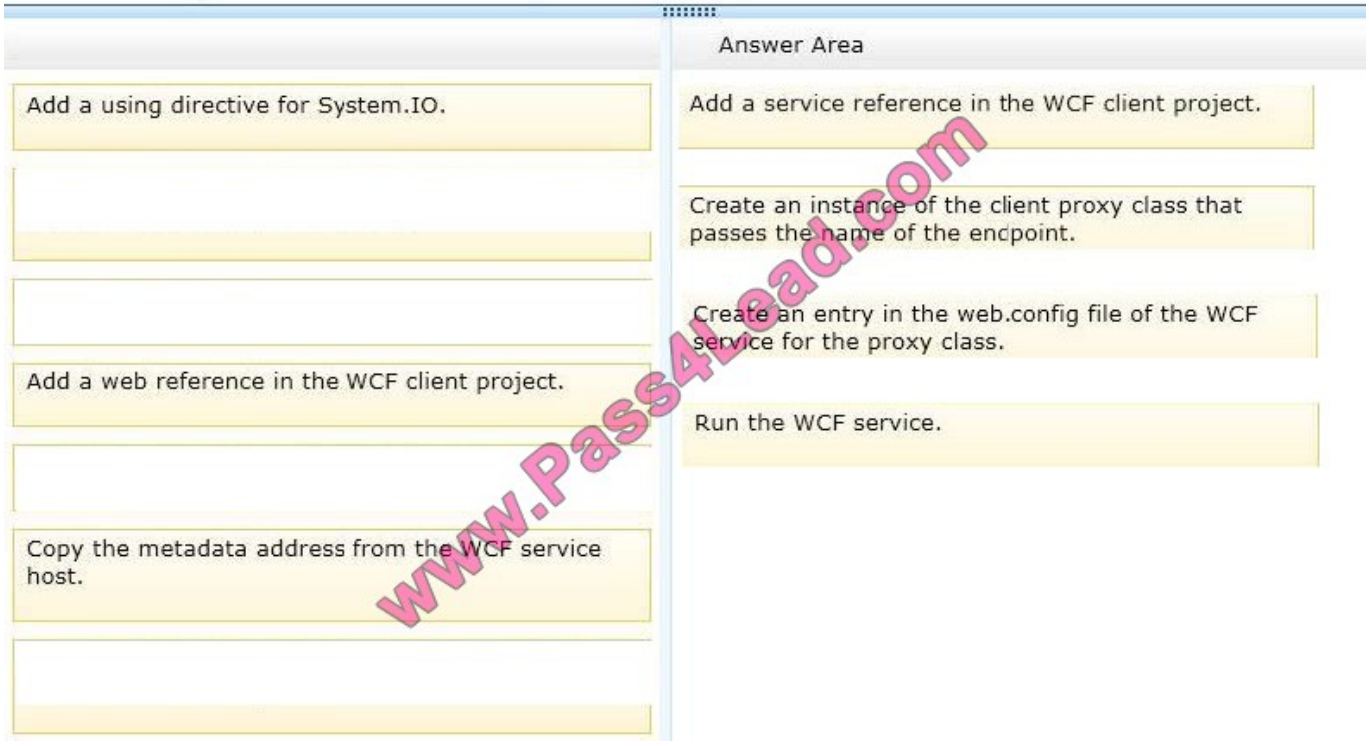
You need to test the service from a separate Visual Studio solution that contains a simple console application.

Which four actions should you perform in sequence? (To answer, move the appropriate four actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:



Correct Answer:



QUESTION 9

You are developing a client application that consumes a Windows Communication Foundation (WCF) service.

You use the svcutil.exe utility to create a proxy for the service.

You use the svcutil.exe switches that generate asynchronous calls. GetFlight is a service operation that takes no parameters and returns a string. The GetFlightCallback method must be called when the service operation returns.

You create an instance of the client proxy with the following code.

var client = new TravelServiceClient();

You need to ensure that a callback is received when the GetFlight operation is called asynchronously.

Which code segment should you use?

A. client.BeginGetFlight(GetFlightCallback, null); client.GetFlight();

B. client.GetFlight(); client.BeginGetFlight(GetFlightCallback, null);

C. client.GetFlightCompleted += new EventHandler(GetFlightCallback); client.GetFlightAsync();

D. IAsyncResult asyncResult = client.BeginGetFlight(GetFlightCallback, client); client.EndGetFlight(asyncResult);

Correct Answer: C

QUESTION 10

You are developing a Windows Communication Foundation (WCF) service named CalculatorService, which implements the ICalculatorService contract. The service is configured to be discoverable through UDP. CalculatorService contains multiple endpoints. One of the endpoints is configured with the following behavior.

```
<behavior name="calculatorEndpointBehavior">
  <endpointDiscovery enabled="true">
    <extensions>
      <Information>
        ICalculatorService Endpoint.
      </Information>
      <Information>
        Udp Exposed Calculator Endpoint
      </Information>
    </extensions>
  </endpointDiscovery>
</behavior>
```


You need to log all the endpoint metadata information that is added by the service host. Which code segment should you use?

```
Dim discoveryClient =
 New DiscoveryClient(New UdpDiscoveryEndpoint())
Dim findCriteria =
 New FindCriteria(GetType(ICalculatorService))
Dim findResponse = discoveryClient.Find(findCriteria)
Dim meta = findResponse.Endpoints(0)

For Each xElement In meta.Extensions
  Log("Endpoint Information: " +
   xElement.Element("Information").Value)
Next
```

A.

B.

```
Dim discoveryClient =
 New DiscoveryClient(New UdpDiscoveryEndpoint())
Dim findCriteria =
 New FindCriteria(GetType(ICalculatorService))
Dim FindResponse = discoveryClient.Find(findCriteria)

For Each meta In FindResponse.Endpoints

  For Each xElement In meta.Extensions
    Log("Endpoint Information: " +
     xElement.Element("Information").Value)
  Next

Next
```

C.

```
Dim discoveryClient =
 New DiscoveryClient(New UdpDiscoveryEndpoint())
Dim findCriteria = New FindCriteria()
Dim findResponse = discoveryClient.Find(findCriteria)

For Each meta In findResponse.Endpoints

  For Each xElement In meta.Extensions
    Log("Endpoint Information: " +
     xElement.Element("Information").Value)
  Next

Next
```

D.

```
Dim discoveryClient =
 New DiscoveryClient(New UdpDiscoveryEndpoint())
Dim findCriteria =
 New FindCriteria()
Dim findResponse = discoveryClient.Find(findCriteria)
Dim meta = discoveryClient.Endpoint

For Each xElement In meta.Contract.Operations
  Log("Endpoint Information: " +
   xElement.Behaviors.ToString())
Next
```


B. C. D.

Correct Answer: B

QUESTION 11

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.Hultiple)]

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

Correct Answer: A

QUESTION 12

A Windows Communication Foundation (WCF) service is deployed with netTcpBinding. This service uses a duplex message exchange pattern. You are developing the next version of the WCF service.

You discover that your company\\'s hardware load balancer performs correctly only for WCF services that use HTTP.

You need to ensure that your service works with the load balancer.

What should you do?

A. Create a custom binding that has the compositeDuplex. textMessageEncoding, and wsHttpTransport binding elements in this order.

B. Use basicHttpBinding.

C. Create a custom binding that has the compositeDuplex, textMessageEncoding, and namedPipeTransport binding elements in this order.

D. Use wsHttpBinding.

Correct Answer: A

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