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Microsoft

XML Web Services and Server Components with C# .NET

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QUESTION 1:

You develop an application named ckApp. This application needs to run on the same computer as a Windows service named ckService.

You want to ensure that ckService starts from ckApp if ckService is not already running.

Which code segment should you use?

- A.

```
ServiceController ckServiceController = new
ServiceController("ckService");
if (ckServiceController.Status == ServiceControllerStatus.Stopped)
{ ckServiceController.Start(); }
```
- B.

```
ServiceController ckServiceController = new
ServiceController("ckService"); ckServiceController.Start();
```
- C.

```
String[] ckArgs = new string [1];
ckArgs[0] = "ckService";
ServiceController ckServiceController = new ServiceController();
if (ckServiceController.Status == ServiceControllerStatus.Stopped)
{ ckServiceController.Start(ckArgs); }
```
- D.

```
String[] ckArgs = new string[1];
ckArgs[0] = "ckService";
ServiceController ckServiceController = new ServiceController();
myServiceController.Start(ckArgs);
```

Answer: A

QUESTION 2:

Your Microsoft SQL Server database contains a table named CertK Orders. CertK Orders is used to store new purchase orders as they are entered into an order-entry application. To keep up with customer demand, the order fulfillment department wants to know at 15-minute intervals when new orders are entered.

You need to develop an application that reads CertK Orders every 15 minutes and sends all new orders to the order fulfillment department. The application will run on computer that is used by several users who continuously log on and log off from the network to perform miscellaneous tasks.

Which type of .NET application should you use?

- A. Windows Form
- B. Windows service
- C. XML Web service
- D. .NET Remoting object

Answer: B

Explanation: A Windows service would still be running even though users logs on and off.

Incorrect Answers

- A: A Windows Form would be closed when a user logs off.
C: An XML Web service is not guaranteed to keep running if a user logs off.
D: You can use .NET Remoting to enable different applications to communicate with one another. However, a remoting object would be destroyed when a user logs off the system.
-

QUESTION 3:

You create a serviced component named CertK Item that implements an interface named I CertK Item. You want to ensure that calls to the serviced component through I CertK Item are queued. What should you do?

- A. To CertK Item, add the following attribute:
[InterfaceQueuing(true, Interface="I CertK Item")]
B. To CertK Item, add the following attribute:
[Transaction(TransactionOption.Disabled, Isolation=TransactionIsolationLevel.Serializable)]
C. To the CertK Item assembly, add the following attribute:
[assembly: ApplicationQueuing(Enabled=true, QueueListenerEnabled=true)]
D. In the CertK Item implementation, override the Activate method from the ServicedComponent class. In the Activate method, add the following code segment:
Queue q = new Queue(); q.Enqueue(this);

Answer: C

Explanation: In addition to enabling queued component support at the application level, you must mark your interfaces as capable of receiving queued calls. You do that by using setting the QueueListenerEnabled attribute to True.

Note: The COM+ Queued Components (QC) service provides an easy way to invoke and execute components asynchronously. Processing can occur without regard to the availability or accessibility of either the sender or receiver.

Reference: .NET Framework Developer's Guide, Queued Components [C#]

Incorrect Answers

- A: The signature for the InterfaceQueuing attribute as shown in Answer A is wrong.
B: Transactions are not helpful for interface queuing configuration.
D: Creating a new queue in the Active method is not correct in this scenario.
-

QUESTION 4:

You are creating a serviced component named ItemCKInventory. An online catalog application will use ItemCKInventory to display the availability of products in inventory. Additional serviced components written by other developers will continuously update the inventory data as orders are placed.

The ItemCKInventory class includes the following code segment:

```
<Transaction(TransactionOption.Required)> _
```

```
Public Class ItemCKInventory
Inherits ServicedComponent
' Method code goes here.
End Class
```

ItemInventory is configured to require transactions. You want ItemInventory to respond to requests as quickly as possible, even if that means displaying inventory values that are not up to date with the most recent orders.

What should you do?

A. To the ItemCKInventory class, add the following attribute:

```
<ObjectPooling(True)>
```

B. To all methods of the ItemCKInventory class, add the following attribute:

```
<AutoComplete(False)>
```

C. Modify the Transaction attribute of the ItemCKInventory class to be the following attribute:

```
<Transaction(TransactionOption.Required, Timeout:=1)>
```

D. Modify the Transaction attribute of the ItemCKInventory class to be the following attribute:

```
<Transaction(TransactionOption.Required, _
IsolationLevel:=
TransactionIsolationLevel.ReadUncommitted)>
```

Answer: D

Explanation: The ReadUncommitted transaction isolation level makes a dirty read is possible, meaning that no shared locks are issued and no exclusive locks are honored. This will reduce the number of locks, compared to the default transaction isolation level of readcommitted. Reduced number of locks will increase the performance.

Incorrect Answers

A: Object pooling is a COM+ service that enables you to reduce the overhead of creating each object from scratch. However, object pooling is not much use in transactions.

B: Autocomplete does not apply here.

C: Timeout configuration would not address performance issue.

Reference: .NET Framework Class Library, IsolationLevel Enumeration

QUESTION 5:

You are creating a serviced component named UserManager. UserManager adds user accounts to multiple transactional data sources.

The UserManager class includes the following code segment:

```
[Transaction(TransactionOption.Required)]
[SecurityRole("Admin")]
public class UserManager : ServicedComponent {
public void AddUser(string CertK name, string CertK password) {
// Code to add the user to data sources goes here.
}
}
```

You must ensure that the AddUser method reliably saves the new user to either all data sources or no

data sources.

What should you do?

A. To AddUser, add the following attribute:

[AutoComplete()]

B. To UserManager, add the following attribute:

[JustInTimeActivation(false)]

C. To the end of AddUser, add the following line of code:

ContextUtil.EnableCommit();

D. To the end of AddUser, add the following line of code:

ContextUtil.MyTransactionVote = true;

Answer: C

Explanation: The TransactionOption.Required shares a transaction, if one exists, and creates a new transaction, if necessary. We should commit this transaction at the end of AddUser with ContextUtil.EnableCommit () statement.

Reference: .NET Framework Class Library, ContextUtil Methods

Incorrect Answers

A: Autocomplete is out of context here.

B: Just-in-time (JIT) activation is a COM+ service that enables you to create an object as a nonactive, context-only object. JIT does not apply here.

D: Not useful.

QUESTION 6:

You create two serviced components named OrderPipeline and OrderAdmin. Each component is registered in a separate COM+ server application.

Both components use pricing data. OrderPipeline reads the pricing data for placing user orders.

OrderAdmin modifies the pricing data.

You want to ensure that OrderPipeline accesses the pricing data as quickly as possible, while still being able to immediately retrieve any pricing changes made by OrderAdmin.

What should you do?

A. Store the pricing data in the Shared Property Manager.

B. Store the pricing data in Microsoft SQL Server database.

C. Store the pricing data in a Hashtable object within OrderAdmin.

Expose the Hashtable object through a property on OrderAdmin.

D. Store the pricing data in an XmlDocument object within OrderAdmin.

Expose the XmlDocument object through a property on OrderAdmin.

Answer: C

Explanation: A Hashtable can safely support one writer and multiple readers concurrently. This is the most efficient solution

Incorrect Answers

A: A Shared Property Manager would be a possible solution, however it is not required and is not the most efficient solution.

Note: In COM+, shared transient state for objects is managed by using the Shared Property Manager (SPM). The SPM is a resource dispenser that you can use to share state among multiple objects within a server process.

B: SQL Server could provide a solution. However, it would not be the most efficient solution.

D: A hash table would be more efficient.

Reference:

.NET Framework Class Library, Hashtable.IsSynchronized Property

Platform SDK: COM+ (Component Services), The Shared Property Manager

QUESTION 7:

You are using Visual Studio .NET to develop an application to replace a COM-based application. A former colleague began writing a .NET class for the new application. This class will be used by client applications as a COM object. You are assigned to finish writing the class.

The class included the following code segment:

```
[Com Visible(false)]
public class CkClass {
public CkClass() {
// Implementation code goes here.
}
[ComVisible(true)]
public int CkMethod(string param) {
return 0;
}
[ComVisible(true)]
protected bool CkOtherMethod(){
return true;
}
[ComVisible(true)]
public int CkProperty {
get { return 0; }
}
// Other implementation code goes here.
}
```

When this code runs, it will expose one or more methods to the client application through COM.

Which member or members will be exposed? (Choose all that apply)

- A. CkMethod
- B. CkOtherMethod
- C. CkProperty
- D. CkClass constructor

Answer: A, C

QUESTION 8:

You are using a Visual Studio .NET to develop an application that uses a non-COM DLL named Certkiller Functions.dll. This DLL is written in unmanaged code.

The DLL contains a function that parses a string into an array of string words and an array of numbers. A call to the function includes the following pseudocode:

```
input = "A string with 6 words and 2 numbers"
```

```
words = null
```

```
numbers = null
```

```
Parse(input, words, numbers)
```

After execution, words contains all string words found in input and numbers contains all integers found in input. You need to enable your application to call this function.

Which code segment should you use?

- A. [DllImport(" Certkiller Functions.dll")]
public static extern void Parse(string input, string[] words, int[] numbers);
- B. [DllImport(" Certkiller Functions.dll")]
public static extern void Parse(string input, ref string[] words, ref int[] numbers);
- C. [DllImport(" Certkiller Functions.dll")]
public static extern void Parse(String inout, params string[] words, params int[] numbers);
- D. [DllImport(" Certkiller Functions.dll")]
public extern void Parse(string input, [out] string[] words, [out] int[] numbers);

Answer: B

QUESTION 9:

You create a services component named OrderStatus that is in an assembly named Certkiller Orders.

OrderStatus is in its own COM+ application named Certkiller App.

OrderStatus is used by multiple client applications to look up the status of orders. Because you anticipate that client applications will frequently access OrderStatus, you need to ensure that the method calls are processed as quickly as possible.

What should you do?

- A. Configure OrderStatus to require a transaction.
- B. Configure Certkiller App to be a library application.
- C. Add the AutoComplete attribute to all methods in OrderStatus.
- D. Configure Certkiller Orders to be a shared assembly, and install it in the global assembly cache.

Answer: B

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