

# COM+ Job Interview Questions And Answers



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## COM+ Interview Questions And Answers Guide.

### Question - 1:

How to make a NET component talk to a COM component?

#### Ans:

To enable the communication between COM and .NET components, the .NET Framework generates a COM Callable Wrapper (CCW).

The CCW enables communication between the calling COM code and the managed code. It also handles conversion between the data types, as well as other messages between the COM types and the .NET types.

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### Question - 2:

What is CCW (COM Callable Wrapper)?

#### Ans:

A proxy object generated by the common language runtime so that existing COM applications can use managed classes, including .NET Framework classes, transparently.

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### Question - 3:

How does you handle this COM components developed in other programming languages in .NET?

#### Ans:

by creating typelibraries & wrapper classes

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### Question - 4:

How to register com+ services?

#### Ans:

we acn register the Com+ services using the "regsvcs" command

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### Question - 5:

What is use of ContextUtil class?

#### Ans:

ContextUtil is the preferred class to use for obtaining COM+ context information.

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### Question - 6:

What is the new three features of COM+ services, which are not there in COM (MTS)?

#### Ans:

- 1) Automatic Transaction
- 2) Distributed Transactions
- 3) Object Pooling



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### Question - 7:

Is the COM architecture same as .Net architecture? What is the difference between them?

#### Ans:

com architecture needs registration & classids where as .net architecture does not need registration & classids

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### Question - 8:

Explain what are wrapper Classes?

#### Ans:

Wrapper classes are used to encapsulate values of primitive types in objects, so that they can be passed around in the same manner.

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### Question - 9:

What are CCW and RCW?

#### Ans:

Com Callable Wrapper

- 1) Create Assembly and compile with strong name.
- 2) Register Assembly using regasm <assembly name>
- 3) Register Assembly in GAC using gacutil /i <assembly name>
- 4) Use tlbexp <assemblyname.dll> to export Assembly as Type Library for COM.

Runtime Callable Wrapper

- 1) Create Public Key Token file using sn.exe &#150;k <keyfilename.snk>
- 2) Use tlbimp <TypeLibFileName> /keyfile: <keyfilename.snk> /out: <AssemblyName.dll>
- 3) Register Imported Assembly in GAC using gacutil /i <AssemblyName.dll>

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### Question - 10:

Explain Disadvantages of com components?

#### Ans:

1. Does not supports implement-inheritance
2. Version compatibility.
3. Fully dependant on registry hence doesn't work on non-window platforms.,

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### Question - 11:

Are com components serializable?

#### Ans:

yes because when server transfer data that will in serialize and any format they used which serialized data in com

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### Question - 12:

Can we send inputs to visual basic projects through command line arguments?

#### Ans:

We can pass command line arguements in VB. We can specify the arguement in project properties -> make tab. Instead we can pass it as command line arguement. The argument will be in a object called 'command' and/or 'command\$'.

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### Question - 13:

WHY WE LEARN THE 8085? BECAUSE WE R IN 21 CENTURI SO WHY WE LEARN 8085?

#### Ans:

8085 is basic microprocessor, why we are learning in 21th centuri for example: u want lean java , before must know some C&C++ concepts, other wise it will difficult like that we learn some basic after will go for advanced



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### Question - 14:

how to register dll in COM / COM+ application?

#### Ans:

You can no longer install COM+ DLLs into the System32 folder on the server. In Windows 2003 server and beyond (including Windows 7) when exporting COM+ package any DLLs registered in WindowsSystem32 (or folders below that) will not be exported. According to Microsoft Support, this is by design. (This information has not been published publicly by Microsoft, so we had to open a ticket with them to discover the issue.)

The symptoms are that the exported MSI files do not contain the COM+ DLLs if:

1. the COM+ DLL is registered in System32 and
2. the COM+ package is exported on Windows 2003 or later.

The MSI will be created and will install, however the applications will not be able to instantiate the objects because the DLL was never installed. Opening the MSI with a install editor like Wise Installation Editor will reveal that the DLL is not included in the MSI.

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### Question - 15:

What is transaction atomicity?

#### Ans:

Transaction Atomicity has four attributes:-ACID (atomicity, consistency, isolation, and durability) is an acronym device for learning and remembering the four primary attributes ensured to any transaction by a transaction manager (which is also called a transaction monitor). These attributes are given below:

Atomicity. In a transaction involving two or more discrete pieces of information, either all of the pieces are committed or none are.

Consistency. A transaction either creates a new and valid state of data, or, if any failure occurs, returns all data to its state before the transaction was started.

Isolation. A transaction in process and not yet committed must remain isolated from any other transaction.

Durability. Committed data is saved by the system such that, even in the event of a failure and system restart, the data is available in its correct state.

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### Question - 16:

Explain consistency?

#### Ans:

We must ensure that the system is always left at the correct state in case of the failure or success of a transaction.

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### Question - 17:

What is integrity?

#### Ans:

Ensure data integrity by protecting concurrent transactions from seeing or being adversely affected by each other's partial and uncommitted results.

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### Question - 18:

What is durability?

#### Ans:

Make sure that the system can return to its original state in case of a failure.

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### Question - 19:



What is object pooling?

**Ans:**

With object pooling, COM+ creates objects and keeps them in a pool, where they are ready to be used when the next client makes a request.

This improves the performance of a server application that hosts the objects that are frequently used but are expensive to create.

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**Question - 20:**

What is JIT activation?

**Ans:**

The objective of JIT activation is to minimize the amount of time for which an object lives and consumes resources on the server.

With JIT activation, the client can hold a reference to an object on the server for a long time, but the server creates the object only when the client calls a method on the object.

After the method call is completed, the object is freed and its memory is reclaimed. JIT activation enables applications to scale up as the number of users increases.

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**Question - 21:**

Explain role-based security?

**Ans:**

In the role-based security model, access to parts of an application are granted or denied based on the role to which the callers belong.

A role defines which members of a Windows domain are allowed to work with what components, methods, or interfaces

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**Question - 22:**

Explain queued components?

**Ans:**

The queued components service enables you to create components that can execute asynchronously or in disconnected mode.

Queued components ensure availability of a system even when one or more sub-systems are temporarily unavailable.

Consider a scenario where salespeople take their laptop computers to the field and enter orders on the go.

Because they are in disconnected mode, these orders can be queued up in a message queue. When salespeople connect back to the network, the orders can be retrieved from the message queue and processed by the order processing components on the server.

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**Question - 23:**

Explain loosely coupled events?

**Ans:**

Loosely coupled events enable an object (publisher) to publish an event. Other objects (subscribers) can subscribe to an event.

COM+ does not require publishers or subscribers to know about each other. Therefore, loosely coupled events greatly simplify the programming model for distributed applications.

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**Question - 24:**

What is reliability?

**Ans:**

The application generates correct and consistent information all the time.



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**Question - 25:**

Define scalability?

**Ans:**

The application meets its requirement for efficiency even if the number of users increases.

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**Question - 26:**

Define availability?

**Ans:**

Users can depend on using the application when needed.

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**Question - 27:**

Define security?

**Ans:**

The application is never disrupted or compromised by the efforts of malicious or ignorant users.

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**Question - 28:**

Define manageability?

**Ans:**

Deployment and maintenance of the application is as efficient and painless as possible.

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**Question - 29:**

Which namespace do the classes, allowing you to support COM functionality, are located?

**Ans:**

System.EnterpriseServices

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