

# Dot Net Remoting Job Interview Questions And Answers



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## Dot Net Remoting Interview Questions And Answers Guide.

### Question - 1:

How to directly call a native function exported from a DLL?

#### Ans:

Yes we can call a native function exported from a Dll in the following way,  
I used C#.Net for Coding.  
Add a Namespace that "System.Runtime.InteropServices"  
Then use the following code,  
Syntax:  
[DllImport("dllname")]  
here place the function in "dllname" Dll.

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### Question - 2:

How does assembly versioning in .NET prevent DLL Hell?

#### Ans:

The runtime checks to see that only one version of an assembly is on the machine at any one time.  
.NET allows assemblies to specify the name AND the version of any assemblies they need to run.  
The compiler offers compile time checking for backward compatibility.

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### Question - 3:

Choosing between HTTP and TCP for protocols and Binary and SOAP for formatters, what are the trade-offs? In what way it is best?

#### Ans:

Binary over TCP is the most efficient, SOAP over HTTP is the most interoperable.

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### Question - 4:

When we use web service and when we use Remoting?

#### Ans:

.NET remoting is specifically used when you are using only Microsoft platform. Remoting cannot be used between .net client and non .NET clients.  
Web services though can be used for communication on Microsoft technologies, but their main feature is Platform Interoperability.  
So if you are using client and server supporting .NET framework, i would recommend to use .NET remoting because you can customise it to great detail and also its faster.  
If you are developing for cross platform technologies, you cannot use .NET remoting. So the only option you have is to use web services

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### Question - 5:

How to perform Remoting?

**Ans:**

Remoting Performance and Auto Web Proxy .

The .Net Framework 2.0 has significant changes to its support for proxies including support for connection-specific proxy settings, automatic proxy configuration and the ability to automatically refreshing proxy settings whenever the active connection changes. These features can be very useful in .Net Remoting but the auto web proxy feature can also affect performance. If you do not need these settings in your client it might be useful to disable them.

There are a number of ways to disable this:

1. In Internet Explorer Open Internet Options, (either through control panel or the Internet Explorer tools menu), switch to the connections tab, and select LAN settings. Clear all checkboxes under automatic configuration. This will disable automatic proxy settings for the current user (note that this will not work for ASP.NET sites making outgoing web service calls because they run under a different user).
2. Imperatively disable it by setting `System.Net.WebRequest.DefaultWebProxy = null;`
3. In your config file bypass the proxy for your web-server. You can also disable the default proxy altogether.

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**Question - 6:**

Give the Hierarchical description of remoting?

**Ans:**

.Net remoting is replacement of DCOM.

Step 1:Build a proxy which looks like a real obj.

Step 2:By using proxy U can make method calls on remoting objs.

Step 3:These method calls know as "Messages", messages can be serialized by Formater.

Step 4:It send to client channel.

Step 5:Client channel communicate with sever channel. And Deserialized the Messages.

Step 6:Sever send the exact remot obj.

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**Question - 7:**

What are the differences between Marshal by value and Marshal by reference?

**Ans:**

Marshal-by-value objects are copied by the remoting system and passed in their entirety to the caller's application domain. Once copied to the caller's application domain (by the marshaling process), all method calls and property accesses are executed entirely within that domain. The entire object exists in the caller's domain, so there is no need to marshal accesses across domain boundaries. Using marshal-by-value objects can increase performance and reduce network traffic when used for small objects or objects to which you will be making many accesses. However, because the object exists entirely in the caller's application domain, no state changes to the object are communicated to the originating application domain, or from the originator back to the caller. Marshal-by-value is not a good choice for very large objects with many accesses. It makes little sense to marshal an entire large object across domain boundaries when all you need is access to a single field, method, or property.

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**Question - 8:**

In which conditions do you opt for Remoting services?

**Ans:**

Remoting is something like web services. You might decide to opt for Remoting instead of web services in following cases...

- 1) Client and server platform is fixed
- 2) Protocol is NOT fixed. (Like web services strictly work on HTTP protocol)
- 3) Where object serialization is to be done strictly through CLR.



4) Where platform is fixed i.e. .Net framework.

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### Question - 9:

What are the various type of channels used by .Net remoting and which is the best one?

#### Ans:

There are 2 types of channels .  
channel means sending messages. 2 types are http and tcp  
Tcp is used for lan , http is used for lan and wan

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### Question - 10:

What is the diff between remoting and webservice?

#### Ans:

1. Web service is to achieve cross-platform interoperability where as .NET Remoting designed expressly for .NET -to- .NET communications.  
2. .NET Remoting would offer best performance for communicating .NET applications where as web services wouldn't in this case.

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### Question - 11:

What is sitemap?

#### Ans:

To use ASP.NET site navigation, you must describe the structure of the site so that the site navigation API and the site navigation controls can expose the site structure properly. By default, the site navigation system uses an XML file that contains the site hierarchy. However, you can also configure the site navigation system to use alternative data sources.

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### Question - 12:

Explain is .NET Remoting?

#### Ans:

Net remoting replaces DCOM. Web Services that uses remoting can run in anyApplication type i.e. Console Application, Windows Form Applications, Window Services etc. In CLR Object Remoting we can call objects across network.

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### Question - 13:

Write a example for remoting (code)?

#### Ans:

```
public class CommonClass : MarshalByRefObject
{
    public string FirstName;
    public string LastName;
    public string GetWelcomeString()
    {
        Console.WriteLine("Welcome " + FirstName + " " + LastName);
        return "Welcome " + FirstName + " " + LastName;
    }
}
```

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### Question - 14:

What is unmanaged code and will CLR handle this kind of code or not?

#### Ans:

Unmanaged code is the type of code which will not execute in the CLR environment. Memory management, garbage collection, security of CLR environment do not apply to Unmanaged code.

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### Question - 15:

Explain Threading Types?

#### Ans:

Threading types in Microsoft world are  
STA -Single threaded apartment model- Synchronized automatically- E.g Forms in windows(Win forms) are STA



application.

MTA -Multithreaded apartment model -Here synchronization is required to access shared resources. Use Mutex or Monitors

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### **Question - 16:**

What is boxing and unboxing?

**Ans:**

Box is used to convert Value type to reference type(i.e. Object)

Unboxing is the reverse of the boxing.

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### **Question - 17:**

What do you mean by passport authentication and windows authentication?

**Ans:**

Passport authentication relies on a centralized service provided by Microsoft. Passport authentication identifies a user with using his or her e-mail address and a password and a single Passport account can be used with many different Web sites. Passport authentication is primarily used for public Web sites with thousands of users.

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### **Question - 18:**

What is an assembly and what does manifest consists?

**Ans:**

Assembly:

Which is reusable, versionable and self describing building blocks in CLR(Common Language Runtime).

Manifest:

It contains information about the Assembly where it is residing.

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### **Question - 19:**

What is strong name and what is the purpose of strong name?

**Ans:**

A name that consists of an assembly's identity-its simple text name, version number, and culture information (if provided)-strengthened by a public key and a digital signature generated over the assembly.

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### **Question - 20:**

What are various types of assemblies?

**Ans:**

- 1) shared assembly
- 2) private assembly
- 3) satellite assembly

In other way static assembly and dynamic assemblies.

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### **Question - 21:**

What is a process?

**Ans:**

Process is set of task of an running application or an application itself, getting executed on a OS for which memory is allocated by OS.

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### **Question - 22:**

What are static assemblies and dynamic assemblies. Differences between them?

**Ans:**

Assemblies can be static or dynamic. Static assemblies can



include .NET Framework types (interfaces and classes), as well as resources for the assembly (bitmaps, JPEG files, resource files, and so on). Static assemblies are stored on disk in PE files. You can also use the .NET Framework to create dynamic assemblies, which are run directly from memory and are not saved to disk before execution. You can save dynamic assemblies to disk after they have executed.

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### Question - 23:

Explain About .NET Remoting and types of remoting?

#### Ans:

NET Remoting is an enabler for application communication. It is a generic system for different applications to use to communicate with one another. .NET objects are exposed to remote processes, thus allowing interprocess communication

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### Question - 24:

Explain About sn.exe?

#### Ans:

strong Name is the process of assigning the strong name to the shared assembly.

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### Question - 25:

What is the difference btw the following methods in .NET remoting?

RegisterWellKnownServiceType()  
RegisterWellKnownClientType()  
RegisterActivatedServiceType()  
RegisterActivatedClientType()

#### Ans:

RegisterWellKnownServiceType():

Method used to define and configure a remotable Object that needs to be Activated on server side. This takes 3 parameter as follows:-

RegisterWellKnownServiceType( typeof( <Class/Object Name> ), <"SomeURI"> ,

WellKnownObjectMode.Singleton/SingleCall );

RegisterWellKnownClientType():

This method has to be used on the client module to communicate with server-side activated remote object. Ex:

RegisterWellKnownClientType( typeof( <Class/Object Name> ), <"Server Remotable Object URL"> );

RegisterActivatedServiceType():

RegisterActivatedClientType():

Similarly, the above two methods are used to define remotable object type as client activated.

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### Question - 26:

Can we configure a .NET Remoting object via XML file?

#### Ans:

Yes, via machine.config and application level .config file (or web.config in ASP.NET). Application-level XML settings take precedence over machine.config.

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