

Re: Windows Service Remoting Question

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.remoting/2004-10/0383.html>

From: Chris Q. (*ChrisQ_at_discussions.microsoft.com*)

Date: 10/27/04

Date: Wed, 27 Oct 2004 08:19:16 -0700

Ken,

I really appreciate your help. Once I removed the TCPListener.StartListening and TCPListener.StopListening methods everything began working perfectly. Thank you so much! This has been a 14 hours stumbling block for me.

I did include the registration of the objects in the OnStart method because all the examples I have seen do this. However, the same examples show a call to the StartListening and StopListening methods.

Later!

Chris

"Ken Kolda" wrote:

> *The first problem I see is that you should not be calling the
> StartListening() method on the TCPListener object. The remoting framework
> will take care of that for you. What I'm guessing is that when you call this
> an exception occurs and it calls OnStop() (which, I'm guessing, stops the
> TCPListener from listening). Why you don't see anything in the event log I'm
> not sure. Do you see the "Application Server Registered" entry in the log
> after the remote object is registered?*

>

> *Also, you don't show this but I assume this code is on the OnStart() method
> of the service class (which is good). If not, you should either put it there
> or somewhere else you can ensure will only run once.*

>

> *Ken*

>

>

> *"Chris Q." <ChrisQ@discussions.microsoft.com> wrote in message
> news:CAF9682A-C592-4FDE-BB1D-9199DA588284@microsoft.com...*

> > *The service is written to write notification events into the application
> > event log, and there are no events indicating that the service is not
> > running. I'm using Try...Catch blocks to write events to the log if any
> > problems occur.*

> >

```
>> Here is the working console server:
>> Sub Main()
>> Dim TCPLListener As TcpChannel
>> TCPLListener = New TcpChannel(2550)
>> ChannelServices.RegisterChannel(TCPLListener)
>>
>> Try
>> RemotingConfiguration.ApplicationName = "ResumeServer"
>>
>>
>> RemotingConfiguration.RegisterWellKnownServiceType(GetType(ApplicantServer),
>> "applicants.rem", WellKnownObjectMode.SingleCall)
>> Configuration.WriteEvent("Applicant Server Registered",
>> EventLogEntryType.Information, 50090)
>> Catch rex As RemotingException
>> Configuration.WriteEvent(rex.Message, EventLogEntryType.Error,
>> 50010)
>> Catch ex As Exception
>> Configuration.WriteEvent(ex, EventLogEntryType.Error, 50000)
>> End Try
>>
>> Try
>> TCPLListener.StartListening(Nothing)
>> Configuration.WriteEvent("The ResumÃ" server is listening on
>> port
>> 2550" & vbCrLf & URLList.ToString, EventLogEntryType.Information, 0)
>> Catch ex As Exception
>> Configuration.WriteEvent(ex, EventLogEntryType.Error, 50020)
>> End Try
>> Console.ReadLine()
>> TCPLListener.StopListening(Nothing)
>> End Sub
>>
>> Here is the working console client:
>> Sub Main()
>> Dim ServerClient As TFF.ResumeManager.IApplicant =
>> Activator.GetObject(GetType(TFF.ResumeManager.IApplicant),
>> "http://localhost:2550/ResumeServer/applicants.rem")
>>
>> Try
>> Dim ApplicantList As DataSet =
>> ServerClient.LoadApplicantList(True)
>> Console.WriteLine(ApplicantList.ToString())
>> Catch ex As System.Net.Sockets.SocketException
>> Console.WriteLine(ex.Message)
>> Console.WriteLine(ex.StackTrace)
>> Catch ex As System.Net.WebException
>> Console.WriteLine(ex.Message)
>> Console.WriteLine(ex.StackTrace)
>> Catch ex As Exception
>> Console.WriteLine(ex.Message)
```

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> > Console.WriteLine(ex.StackTrace)
> > End Try
> > Console.ReadLine()
> > End Sub
> >
> > Here is the service that is not currently working:
> > TCPListener = New HttpChannel(2550)
> > ChannelServices.RegisterChannel(TCPListener)
> >
> > Try
> > RemotingConfiguration.ApplicationName = "ResumeServer"
> >
> >
> > RemotingConfiguration.RegisterWellKnownServiceType(GetType(ApplicantServer),
> > "applicants.rem", WellKnownObjectMode.SingleCall)
> > ServerUtility.WriteEvent("Applicant Server Registered",
> > EventLogEntryType.Information, 50090)
> > Catch rex As RemotingException
> > ServerUtility.WriteEvent("Line 76",
> > EventLogEntryType.Information)
> > ServerUtility.WriteEvent(rex.Message, EventLogEntryType.Error,
> > 50010)
> > Catch ex As Exception
> > ServerUtility.WriteEvent("Line 78",
> > EventLogEntryType.Information)
> > ServerUtility.WriteEvent(ex, EventLogEntryType.Error, 50000)
> > Finally
> > Me.OnStop()
> > End Try
> >
> > Try
> > TCPListener.StartListening(Nothing)
> > ServerUtility.WriteEvent("The ResumÃ" server is listening on
> > port
> > 2550" & vbCrLf & URLList.ToString, EventLogEntryType.Information, 0)
> > Catch ex As Exception
> > ServerUtility.WriteEvent("Line 96",
> > EventLogEntryType.Information)
> > ServerUtility.WriteEvent(ex, EventLogEntryType.Error, 50020)
> > OnStop()
> > End Try
> >
> > The activator on the client works fine until I call a method on the
> > remoting
> > object which is inheriting from MarshalByRef. I get a null reference from
> > the
> > service server. I get a dataset from the console server.
> >
> > Thanks for any assistance.
> >
> > "Ken Kolda" wrote:
```

>>
>>> *A few questions/comments:*
>>>
>>> *1) Does your service start and stay running or does it terminate
> immediately
> after starting?*
>>> *2) Assuming the service starts, can you connect to the port it's using
> via
> telnet to verify the server is listening for connections?*
>>> *3) You must be getting some kind of exception, either from the server or
> from the client when you attempt to connect. Can you post that in its
> entirety?*
>>>
>>> *If you could post the code of your service class, that would help too.
> Don't
> post all your code -- just the class that derives from ServiceBase and
> only
> the code that registers the channel and any remoting objects.*
>>>
>>> *Ken*
>>>
>>>
>>> *"Chris Q." <ChrisQ@discussions.microsoft.com> wrote in message
> news:B7C9538A-992A-4CDF-843F-7099819DFEE9@microsoft.com...
>>> I am designing a client/server application that will utilize remoting.
> I
>>> am
>>>> able to get things working without a problem using console
> applications,
>>> but
>>>> when I desire to create a windows service, I get all kinds of
> errors...
>>> none
>>>> of which are traceable.
>>>>
>>>> This is how I began the process. I first created the console server
> and
>>> the
>>>> console client. I verified that they are working properly with both
> TCP
>>>> channels and HTTP channels. However, when I take the exact same code
> and
>>>> place it into a windows service, I get no-descriptive errors and
>>>> connectionsink problems.
>>>>
>>>> I'm using well known single call objects on the server. The idea is to
>>>> contact the server to retrieve or save a dataset. This works
> beautifully
>>> with
>>>> the console apps either on a single machine or on seperate machines.
>>> However,*

> > > > *when I attempt to do the same task in a windows service on seperate*
> > > *machines,*
> > > > *I get the errors.*
> > > >
> > > > *Anyone run into similar problems?*
> > > >
> > > > *Thanks!*
> > >
> > >
> > >
>
>
>