**COMPUTING SUBJECT: Webservice IIS and other problems**

**TYPE:** Assignment

**IDENTIFICATION:** WebserviceProblems

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**LEVEL:** Difficult to do, easy to understand

**TIME CONSUMPTION:** 2-10 hours

**EXTENT:** 50 lines

**OBJECTIVE:** Solving various issues

**PRECONDITIONS:** Sommerville 31.1

Calculator Webservice on localhost

**COMMANDS:**

**IDENTIFICATION:** WebserviceProblems

The Mission

There can be quite a lot of issues, when providing/publishing web-services. Help are given in this paper concerning:

Issue 1: port 65080 is not open

Issue 2: .NET v4.0 version cannot be found by IIS.

Issue3: IIS does not have access to the publish directory

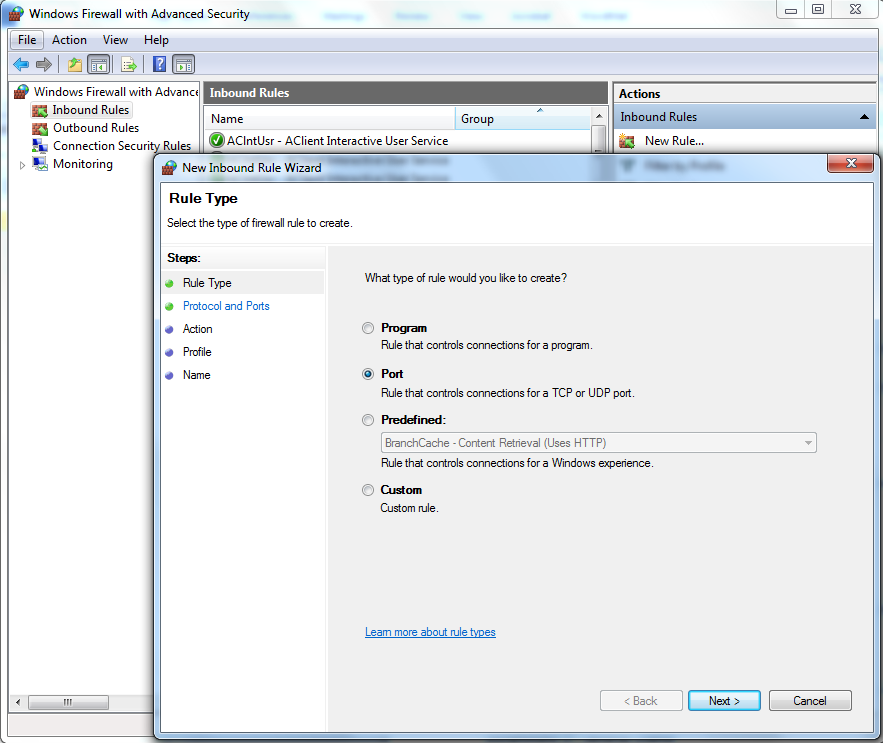
Issue 4: IIS cannot be found

Issue 5: .NET and WCF features not selected

Issue 1: Port 65080 is not open for communication

Open port 65080 to accept inbound and outbound TCP-requests.

Choose ControlPanel -> System Security -> Windows Firewall -> Advanced setteing  
Then select -> Inbound rules -> Create New Rule



And configure TCP to allow to use port 65080.  
Finally do the same for Outbound rules.

Issue 2: IIS cannot find the .NETv4.0 version.

The reason for this problem is that Windows and IIS were installed before .NET 4.0.30319 (probably installed later by Visual Studio or a Windows update). Therefore IIS cannot recognize the correct .NET-version and the result is spooky error messages.

The IIS has its own meta-database of information and therefore we need to run a command so the IIS can see and make use of all installed .NET versions. The name of the command is *regiis.*

Open Windows explorer (path finder) and find the folder with the last .NET version:

Windows -> Microsoft.NET -> Framework -> v4.0.30319

Right click on C:\Windows\Microsoft.NET\Framework\v4.0.30319

And copy it.

Then open a command prompt and run the command:

>C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet\_regiis.exe -i

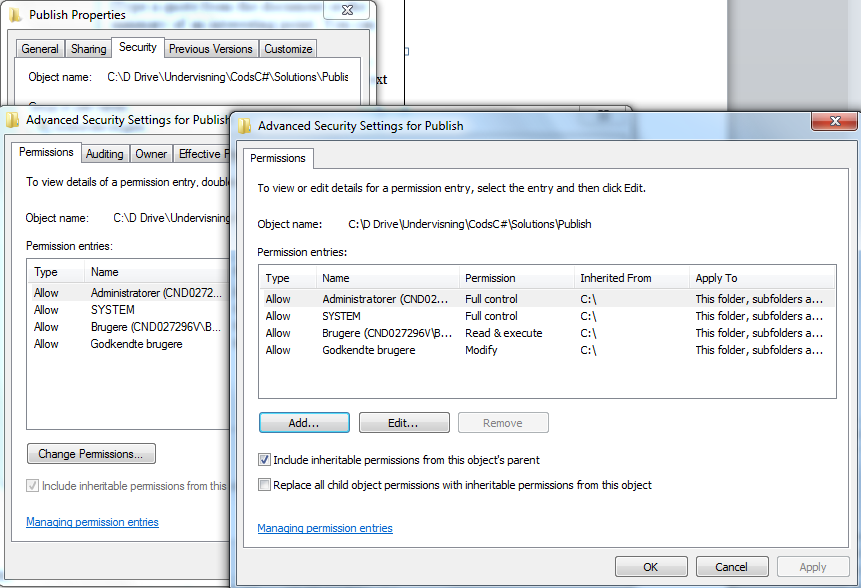
Then try to set up the Web-application again.

Issue 3: IIS does not have access to the publish directory

ISS cannot find/use the published files’ information as the directory for publishing is path privately owned by the user.

Select the directory -> Right click on Properties/Settings

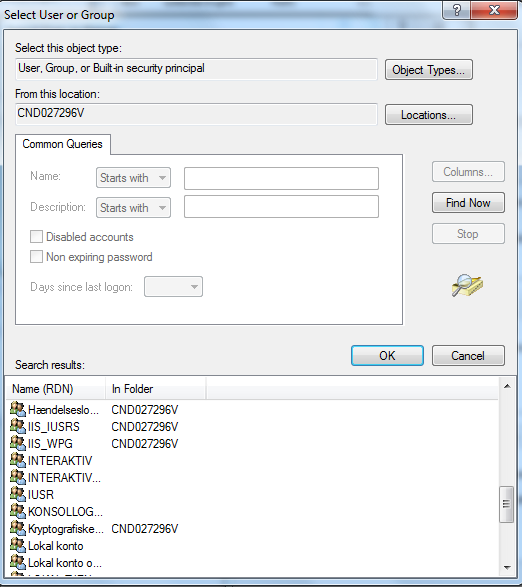
To change permissions: Choose Security -> Edit -> Add



Click -> Locations

Change location to local computer identification like: CND027296V

Click Advanced -> Find Now



Now Choose two or more IIS objects like: IIS\_IUSRS; IIS\_WPG; IUSR

Click OK

As a result IIS should now be able to access the publish-directory

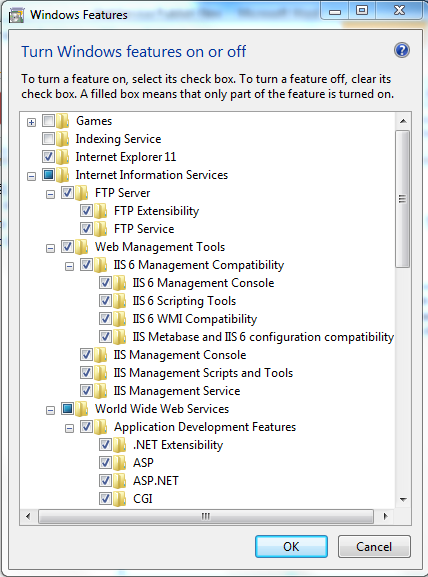
*If this set up fails then publish the web-service in the same folder as where your project is located.*

Issue 4: IIS can not be found

This is because the ISS-program is not turned on.

From Control Panel Choose -> Programs -> Programs and Features -> Turn Windows features on

Wait long time and you will see:



Tick all boxes and also boxes in subfolders Internet Information Services including World Wide Web Services.

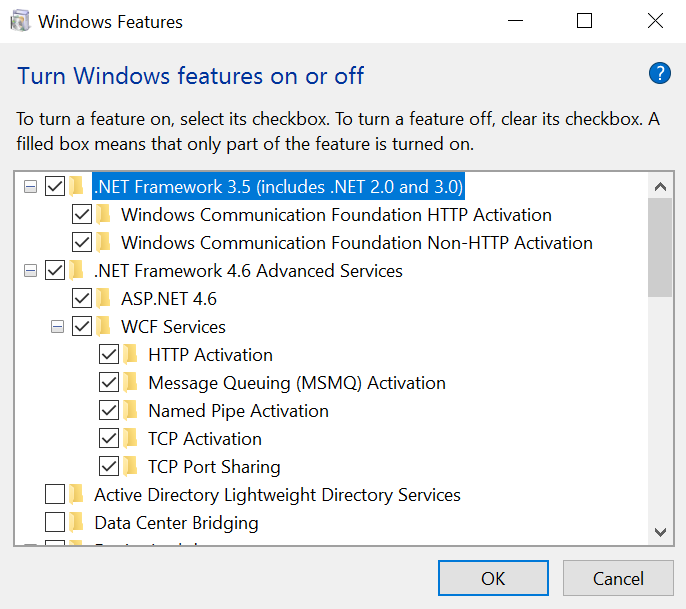
Try again. Maybe you need to restart your computer.

Issue 5: .NET and WCF features not selected

This is because some .NET and WCF features have not been turned on

From Control Panel Choose -> Programs -> Programs and Features -> Turn Windows features on

Wait some time and find the .NET features and you will see:



Tick all boxes and also boxes in subfolders, and especially don’t forget the WCF-boxes.

Try again. Maybe you need to restart your computer.