

Getting Started with WCF

[https://msdn.microsoft.com/en-us/library/ms734712\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms734712(v=vs.110).aspx)

1. Define a Windows Communication Foundation Service Contract

[https://msdn.microsoft.com/en-us/library/ms731835\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms731835(v=vs.110).aspx)

1. Create a new Project

New Project -> c# -> WCF -> WCF Service Library

Name: GettingStartedLib

Solution: GettingStarted

Project is created with 3 files

- IService1.cs (contains a default service contract)
- Service1.cs (contains the default implementation of the service)
- App.config (contains the configuration needed to load the default service)

2. IService1.cs

See GitHub:

https://github.com/slowmoh/urban_samples/tree/master/wcf_service/msdn_getting_started/GettingStartedLib

2. Implement a Windows Communication Foundation Service Contract

[https://msdn.microsoft.com/en-us/library/ms734686\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms734686(v=vs.110).aspx)

1. Service.cs

See GitHub:

https://github.com/slowmoh/urban_samples/tree/master/wcf_service/msdn_getting_started/GettingStartedLib

3. Host and Run a Basic Windows Communication Foundation Service

[https://msdn.microsoft.com/en-us/library/ms730935\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms730935(v=vs.110).aspx)

1. Add new Project -> Windows -> Console Application

Name: GettingStartedHost

2. Properties on GettingStartedHost Project

- Change Framework to .Net Framework 4.5

3. Add a reference

- GettingStartedHost -> add -> reference -> GettingStartedLib

4. Add a reference

- GettingStartedHost -> add -> reference -> assemblies -> System.ServiceModel

Host the service

Program.cs see GitHub:

https://github.com/slowmoh/urban_samples/tree/master/wcf_service/msdn_getting_started/GettingStartedHost

If there is a problem, connecting to the service, check the App.config from GettingStartedLib:

```
<service name="GettingStartedLib.CalculatorService">
  <endpoint address="" binding="basicHttpBinding"
contract="GettingStartedLib.ICalculator">
```

If it is still not running, open cmd and create a new domain address under your user:

```
netsh http add urlacl url=http://+:80/MyUri user=DOMAIN\user
```

4. Create a Windows Communication Foundation Client

[https://msdn.microsoft.com/en-us/library/ms733133\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms733133(v=vs.110).aspx)

1. Add new project -> Windows -> Console Application

2. Set .Net Framework 4.5

3. Add reference to System.ServiceModel

4. Right click the references folder

- Add service reference -> URL: <http://localhost:8000/ServiceModelSamples/Service>
- Leave the default namespace as it is

5. Configure a Basic Windows Communication Foundation Client

[https://msdn.microsoft.com/en-us/library/ms734663\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms734663(v=vs.110).aspx)

Try to run the host, and over a cmd the client exe.