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Windows Service In .NET

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ate Mar 06, 2016

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allow us to create long-running applications that run in the background without the need of any user interface or user interaction like a GUI, Windows Application, Console Application.

[Windows Services](#) applications using the .NET Framework, but we can also create them using Topshelf.

Topshelf is a service framework for the .NET platform that makes it easy to create a Windows service.

Why would I use Topshelf to create Windows service?

It makes it easy to create a Windows service as well as test the service, debug the service, and install it into the Windows Service Control Manager (SCM) with simple commands.

By using Topshelf, we don't need to understand the complex details of service classes, perform installation via InstallUtil, or learn how to attach the debugger to services for troubleshooting issues.

With Topshelf, creating a Windows service is as easy as creating a console application. Once the console application is created, we need to create a single service class with public Start and Stop methods and configure it as a service using Topshelf's configuration API.

Now, we have a complete Windows service that can be debugged using the debugger (just by

pressing F5) and installed using the Topshelf command (install/uninstall).



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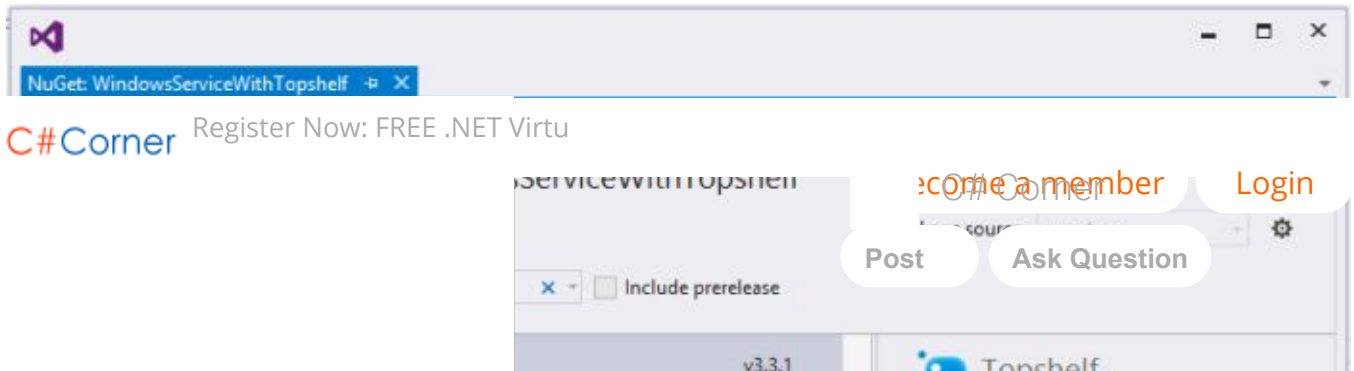
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ge Manager.



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Service logic: *MyService.cs*.

WindowsServiceWithTopshelf

MyService

Start()

Code here that runs when the Windows Service starts

Stop()

```

10.     {
11.         // write code here that runs when the Windows Service stops
12.     }
13. }
14.

```

4. Create a class to configure our service logic using the Topshelf project: *ConfigureService.cs*.

```

01. using Topshelf;
02. namespace WindowsServiceWithTopshelf
03. {
04.     internal static class ConfigureService
05.     {
06.         internal static void Configure()
07.         {
08.             HostFactory.Run(configure =>
09.             {
10.                 configure.Service < MyService > (service =>

```

11.
12.
13.

{

```
service.ConstructUsing(s => new MyService());  
service.WhenStarted(s => s.Start());
```



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ewithTopshelf

n(**string**[] args)

rvice.Configure();

n using Topshelf command.

Administrator and navigate to the bin/debug folder of

Console Application.

> *WindowsServiceWithTopshelf.exe install*



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Administrator: Command Prompt

```
net windows service with  
owServiceWithTopshelf  
ramework v4.0.30319.420  
ation.  
of the installation.  
thTopshelf service  
erviceWithTopshelf
```

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successfully.

completed.

WindowsServiceWithTopshelf\bin\D

run this command.

self.exe uninstall

ated using Topshelf?

plication.

Visual Studio (Administrator)

TEAM TOOLS ARCHITECTURE TEST WEB ESSENTIALS ANALYZE WINDOW HE

Any CPU Continue

Cycle Events Thread: [28260] Main Thread Stack Frame: Windows

WindowsServiceWithTopshelf.MyService

```
1 namespace windows>servicewithtopshelf  
2 {  
3     2 references  
4     public class MyService  
5     {  
6         1 reference  
7         public void Start()  
8         {  
9             // write code here that runs when the Windows Service starts up.  
10        }  
11        1 reference  
12        public void Stop()  
13        {  
14            // write code here that runs when the Windows Service stops.  
15        }  
16    }  
17 }
```

References:

- [Topshelf Documentation](#)

Read more articles on **Windows Services**:

- [Topshelf OSS Library](#)
- [Web API Self-Hosting Using Windows Service: Part 1](#)



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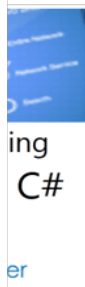


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Certified Professional in ASP.NET MVC and SQL Server. He had been working in the .NET technology and SQL Server for more than a decade as Programmer and Solution Architect. For any assista... [Read more](#)

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How to stop the service after finishing my task.(Automatically quit the service. No more execution). Is that possible then please let me know

[Guru Prasad](#)

1967 16 0

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For any assistance contact me at badyalsk@gmail.com

Sushil Kumar

Aug 08, 2019



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May 09, 2018

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application as an MSI installer as deliverable so it can be installed as
ne?

Apr 13, 2018

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h is a C# front end for the WiX Installer Toolset. See here:
/questions/26642909/can-i-install-a-windows-service-with-
project = new Project("My Product", new
y Company\My Product", service = new
/App.exe")); service.ServiceInstaller = new ServiceInstaller { Name
tOn = SvcEvent.Install, StopOn = SvcEvent.InstallUninstall_Wait,
install_Wait, };

Mar 04, 2019

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s://github.com/oleg-shilo/wixsharp

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Mar 07, 2016

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nice

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