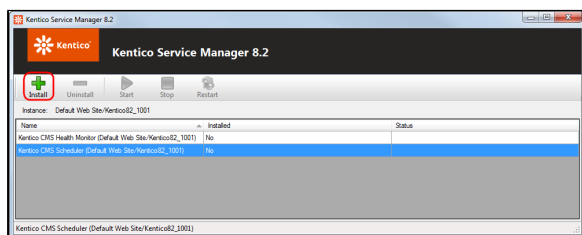Kentico provides a dedicated Windows service for executing scheduled tasks. You can use the service to execute tasks externally instead of the application itself (typically for resource-consuming tasks). Executing scheduled tasks using the Windows service can **optimize the performance** of your application.

Installing the Scheduler Windows service using Kentico Service Manager

The easiest way to install the Scheduler Windows service is to use the Kentico Service Manager utility:

1. Launch the Kentico Service Manager utility from the Kentico program files group in the Windows Start menu.
   - You can also launch the **KSM** utility from Kentico Installation Manager using the **Services** button.
2. Choose the Kentico instance where you want to install the service (select the CMS folder).
3. Select the **Kentico Scheduler** service.
4. Click **Install**.

5. Click **Start** to start the service after it is installed.

You have installed the **Kentico Scheduler** service, which is now running and ready to be used.

You can uninstall the service at any time by clicking **Uninstall** in the Kentico Service Manager utility.

Installing the Scheduler Windows service from the command line

To install the Windows service from the command line, you need to use **Installer Tool** (InstallUtil.exe), which is a native part of the .NET Framework:

1. Open the Windows command line (type *cmd* in the Start menu search box)
2. Navigate to the .NET folder containing *InstallUtil.exe* (e.g. *c:\Windows\Microsoft.NET\Framework64\v4.0.30319*).
3. Execute *InstallUtil.exe* from the Windows command line with the following parameters:
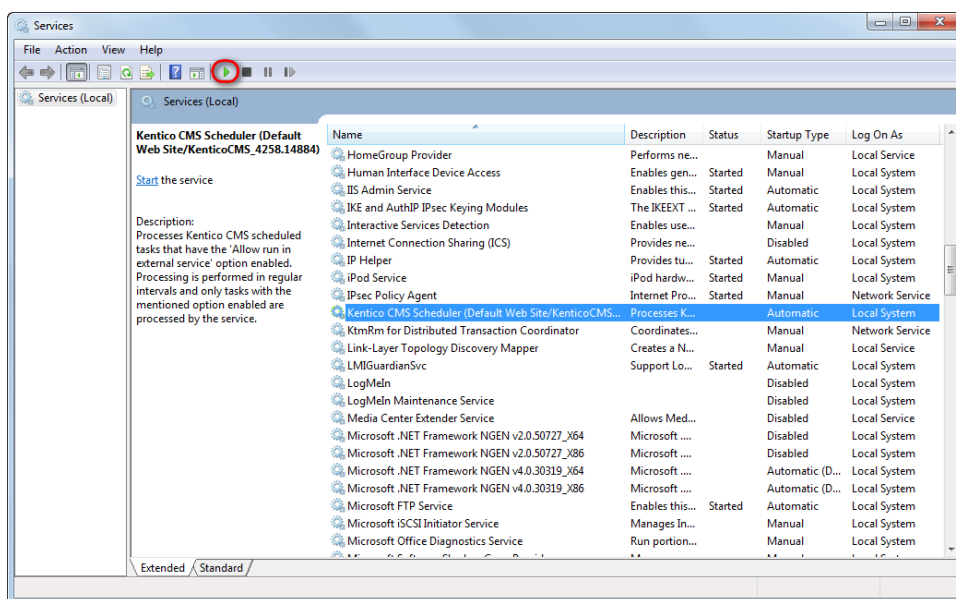
```
InstallUtil.exe /webpath="C:\inetpub\wwwroot\Kentico\CMS" "c:
\inetpub\wwwroot\Kentico\CMS\bin\SchedulerService.exe" /LogToConsole=true /i
```

The following table describes the used parameters:

/webpath	Path to the CMS folder of the Kentico instance for which you want to install the service.
second parameter	Path to the *SchedulerService.exe* file in the *Bin* folder inside the application (typically *c:\inetpub\wwwroot\Kentico\CMS\bin\SchedulerService.exe*).
/LogToCons ole	Optional parameter that determines whether the installation progress is logged to the console.
/i	If this parameter is used, the Installer Tool performs installation of the Windows service.

4. Open the **Services** management console (type *services.msc* into the Start menu search box).
5. Select the **Kentico Scheduler (<CMSApplicationName web.config key value>)** service in the list.

6. Click the **Start Service** button on the top toolbar.

Configuring database permissions for services

By default, Kentico services run under the **Local System** (*NT AUTHORITY\System*) account. If you experience problems with services not starting, the Local System account may not have sufficient permissions for your Kentico database.

Either grant sufficient permissions for the *NT AUTHORITY\SYSTEM* login in your database (at least assign a schema with the *Connect* permission), or use the Windows **Services** management console to change the Log On account of individual services to a different account with database access.

Uninstalling the Scheduler Windows service from the command line

1. Open the Windows command line (type *cmd* in the Start menu search box).
2. Navigate to the .NET folder containing *InstallUtil.exe* (e.g. *c:\Windows\Microsoft.NET\Framework64\v4.0.30319*).
3. Execute *InstallUtil.exe* from the Windows command line with the following parameters:

```
InstallUtil /webpath="C:\inetpub\wwwroot\Kentico\CMS" "c:
\inetpub\wwwroot\Kentico\CMS\bin\SchedulerService.exe" /LogToConsole=true /u
```

After executing this command, the Scheduler Windows service for the Kentico instance specified by the **/webpath** parameter is uninstalled.