

.NET How to Create and Publish Nuget Package

Taken from here:

docs.microsoft.com-nuget/docs/quickstart/create-and-publish-a-package-using-the-dotnet-cli.md at main · NuGet/docs.microsoft.com-nuget

Here is more content on additional properties for a nuget package:

docs.microsoft.com-nuget/docs/reference/msbuild-targets.md at main · NuGet/docs.microsoft.com-nuget

TODO: Add in details for nuget symbol packages from here:

[Documentation - MyGet - Hosting your NuGet, npm, Bower, Maven, PHP Composer, Vsix, Python, and Ruby Gems packages](#)

And, here:

[How to publish NuGet symbol packages using the new symbol package format '.snupkg'](#)

HOWTO Steps

There are a couple steps to publish a nuget package:

- Set Package Properties
- Build Project
- Update Release Notes
- Create Nuget Package
- Push to Nuget Feed

Package Properties

Open the csproj file and set at least the following lines:

```
<PackageId>AppLogger</PackageId>  
<Version>1.0.0</Version>
```

```
<Authors>your_name</Authors>
<Company>your_company</Company>
```

Open the project properties in Visual Studio, and set the following:

- Make sure the Package ID (`PackageId`) is unique across your Nuget repository.
- Set the Package Version (Version) as needed.
- Set the Package Version in the csproj file...
Make sure the Package Version (Version) changes each time the package is pushed.
This is done by incrementing the build number parameter in the Package Version string.
Use Package Version strings like this: `<major>.<minor>.<patch>-build<buildnumber>`
Ex.: `1.0.0-build2`.
- Set the project's Assembly Version to reflect the Package Version: `1.0.2.0`
- Set the Authors field.
- Set the Product field.
- Set the Company field.
- Set the Description field.
- Set the Target Framework field.

Here's a sample of the csproj file with the normal fields set for a nuget package:

```
<PropertyGroup>
  <TargetFramework>net5.0</TargetFramework>
  <PackageId>OGA_SharedKernel</PackageId>
  <Authors>Lee White</Authors>
  <Product>OGA Libraries</Product>
  <Version>1.0.0</Version>
  <GeneratePackageOnBuild>true</GeneratePackageOnBuild>
  <Description>Base Exceptions, attributes, config and process globals, and a few other elements that are used
by all projects.</Description>
  <Company>OGA</Company>
</PropertyGroup>
```

Build Project

Build the project in release mode to enable optimizations.

Update Release Notes

This step is straightforward.

Update the RELEASE-NOTES.txt file for the project. This should be located in the VS solution, just outside the project, like here:


```
dotnet nuget push -s https://buildtools.ogsofttech.com:8079/v3/index.json "P:\Projects\NETCore  
SoftwareLibraries\NETCore SoftwareLibraries\OGA_SharedKernel\bin\Debug\OGA_SharedKernel.1.0.0-  
build3.nupkg"
```

Push the symbol package to the nuget server using the CLI:

```
dotnet nuget push -s https://buildtools.ogsofttech.com:8079/v3/index.json "P:\Projects\NETCore  
SoftwareLibraries\NETCore SoftwareLibraries\OGA_SharedKernel\bin\Debug\OGA_SharedKernel.1.0.0-  
build3.snupkg"
```

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