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# Start a Visual Studio Project with Templates

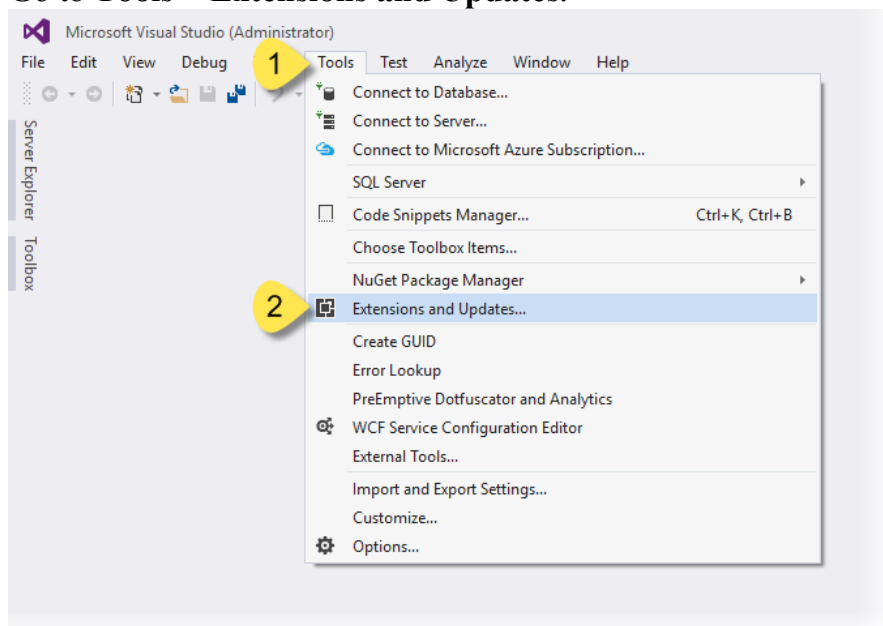
## Prerequisites

- [A local DNN installation](#) with **Host** permissions.
- Visual Studio 2015 is the recommended IDE for developing DNN modules.

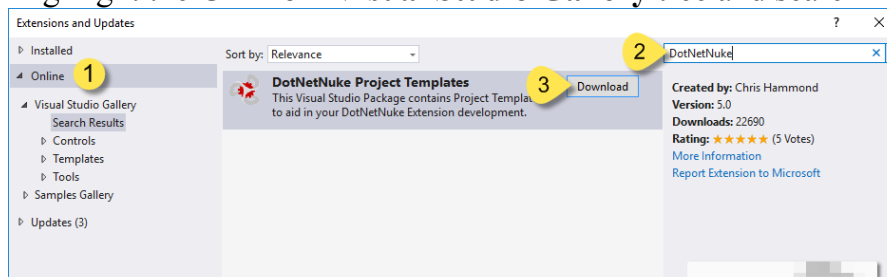
## Steps

### 1. Download and install the templates.

- For Chris Hammond's templates,
  - a. Run Visual Studio as an administrator.
  - b. Go to **Tools > Extensions and Updates**.



### c. Highlight the **Online > Visual Studio Gallery** tree and search for DotNetNuke.

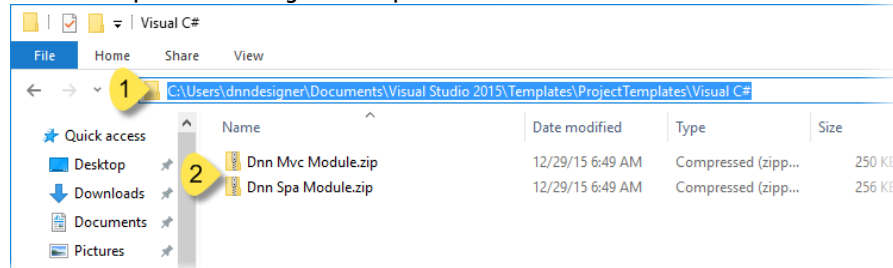


- d. Click the **Download** button for the **DotNetNuke Project Templates**.
- e. Agree to the license to continue.
- f. Agree to restart Visual Studio.

**Note:** See [Chris Hammond's instructions](#) for other installation methods.

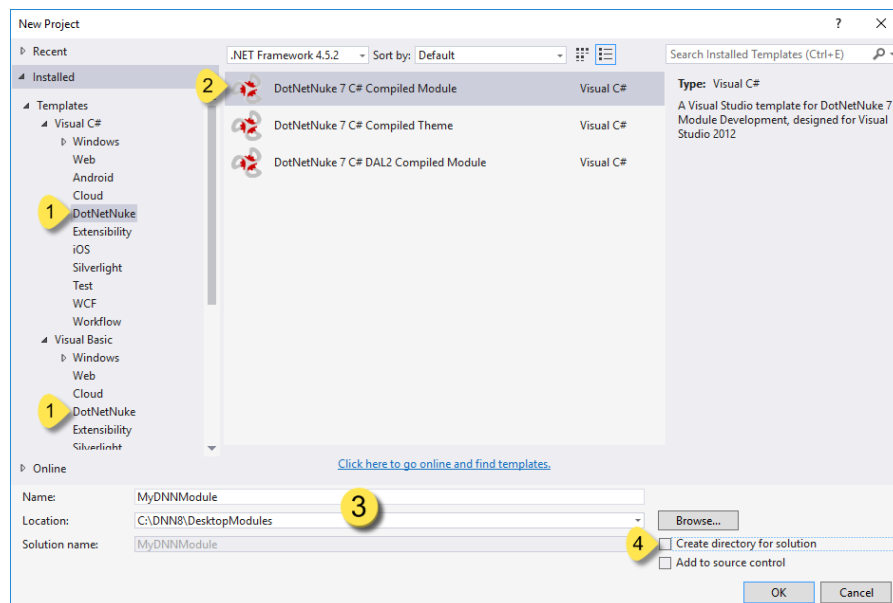
- For the DNN 8 templates,

- a. [Download the zip file and unzip.](#)
- b. In the templates folder, you'll find the zip files for the templates. Two are included: **Dnn Mvc Module** and **Dnn Spa Module**.
- c. Copy the template zip file(s) to your Visual Studio project templates folder. By default, this folder is %USERPROFILE%\Documents\Visual Studio 2015\Templates\ProjectTemplates\Visual C# or Visual Basic.

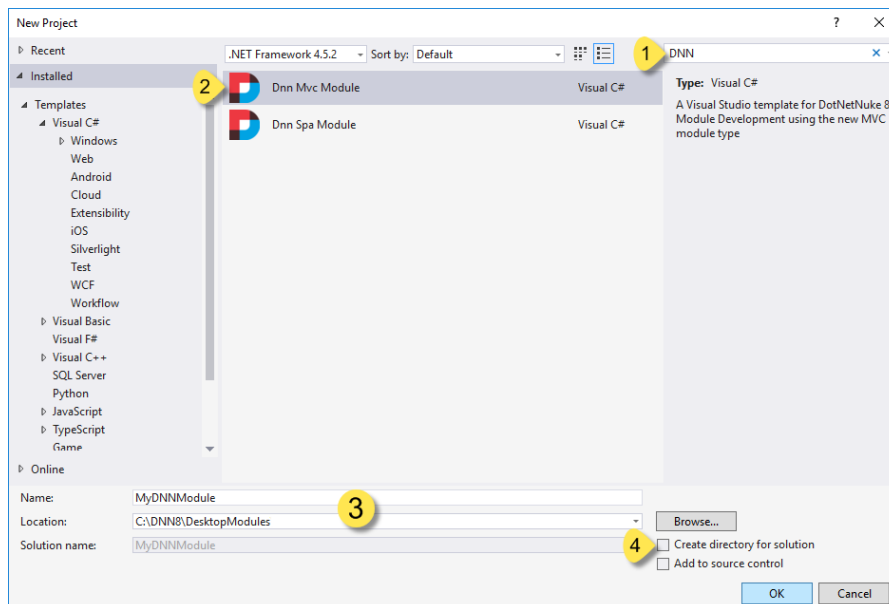


## 2. Create a new Visual Studio project.

- a. Run Visual Studio as an administrator.
- b. **File > New > Project**
- c. Select the template for the new project.
  - For Chris Hammond's templates,
    1. Expand **Installed > Templates > Visual C# or Visual Basic > DotNetNuke**.
    2. Choose one of the compiled modules.



- For the DNN 8 templates,
  1. Search for DNN.
  2. Select the module template (**Dnn Mvc Module** or **Dnn Spa Module**).



- d. Set the following:
  - i. **Name:** the name of your new module
  - ii. **Location:** the DesktopModules folder inside your DNN installation folder
- e. Uncheck **Create directory for solution**. The templates expect Visual Studio's solution file (.sln) to be in the same folder as the project file. Checking this option puts the solution file in a different folder, which can cause build errors.

## See Also

- [Creating Modules](#)
- [Create a Web Forms module.](#)
- [Create an MVC module.](#)
- [Create a SPA module.](#)
- [Contents of a Module Package](#)

## Sources

- DNN Community blog: [Module Development for Non-Developers, Skimmers, & DNN Beginners - Blog Series](#) by [Clinton Patterson](#)
- [Using the new Module Development Templates for DotNetNuke 7](#) by Chris Hammond