

## Getting HydroServer Lite Source Code (Instructions for Windows)

### Step 1.1 – Install MSysGIT

Go to <http://code.google.com/p/msysgit/>

Go to **Downloads** and select the **Full installer for official Git for Windows 1.8.0**

Download and run the installation file **Git-1.8.0-preview20121022.exe**

Follow the steps in the setup wizard. Keep the default options in all steps.

- In the step **Adjusting your PATH environment** use the default **Use GIT Bash only** option.
- In the step **Configuring the line ending conversions** also use the default **Checkout Windows-style, commit Unix-style endings** option.
- In the last step click **Finish**.

### Step 1.2 – Install TortoiseGIT

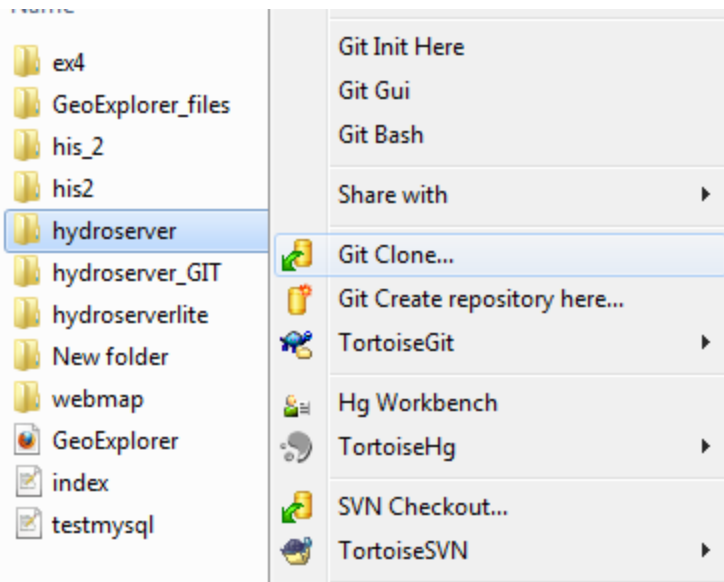
Go to <http://code.google.com/p/tortoisegit/wiki/Download>

- Select the download version (for 32-bit OS or for 64-bit OS). If you are unsure you can find out the Operating system type in My Computer – Properties – System Properties)Download the .msi installation file and run it.
- Follow the steps in the TortoiseGit setup wizard. Keep the default options in all steps.
- In the last step click **Finish**.

### Step 1.3 - Get the source code of Hydroservelite

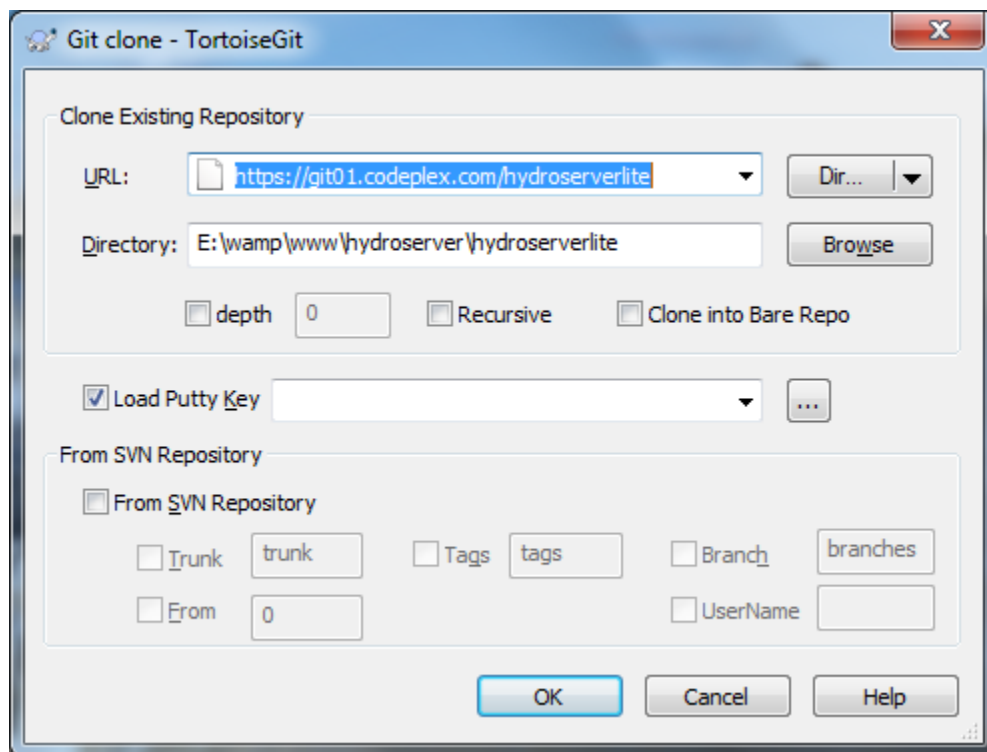
In your computer navigate to the folder where you want to have a local copy of the code, for example c:\wamp\

Right-click on the folder in Windows Explorer and select GIT Clone..

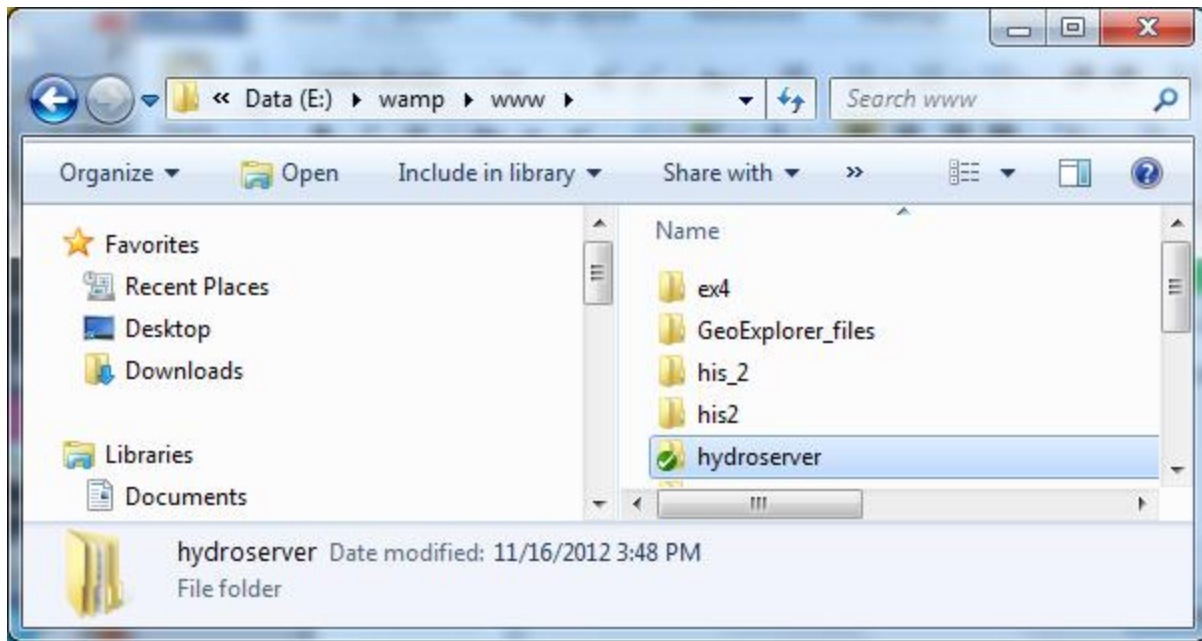


In the URL enter the following address:

**<https://git01.codeplex.com/hydroserverlite>**



After the clone is complete click close on the progress window. In Windows Explorer the folder and all its files and subfolders are labeled with a green icon:



### Step 1.4 – Test Hydroserverlite on a local computer

You can also install wampserver <http://www.wampserver.com/en/>) on your local computer.

Wampserver is the apache, php and mysql package for Windows. You can use it to test or modify HydroServer lite offline on a local computer without uploading every change to a remote server

## Part 2 - Contributing source code to hydroserverlite

### Step 2.1 Register on codeplex and ask for code commit privileges

If you don't have a user account on codeplex.com, go to [www.codeplex.com](http://www.codeplex.com) and select register. Create a new account.

After you created the codeplex user account go to

<http://hydroserverlite.codeplex.com/team/view> and contact the coordinator danames or jirikadlec2 with a request. After the coordinator gives you developer privileges you will see your name under Developers.

### Step 2.2 Remember user name and password

This is an optional step, if you don't want to re-type your username and password every time.

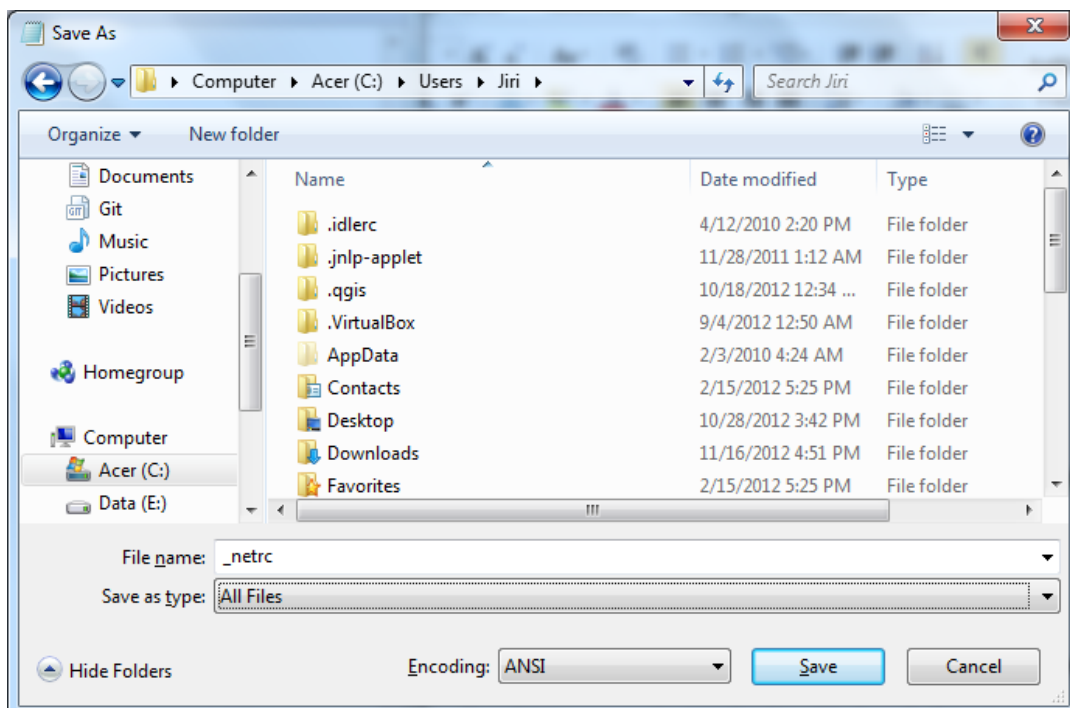
In **notepad** create a file called **\_netrc** with the following contents:

```
machine git01.codeplex.com
login <login>
password <password>
```

Instead of <login> write your codeplex user name.

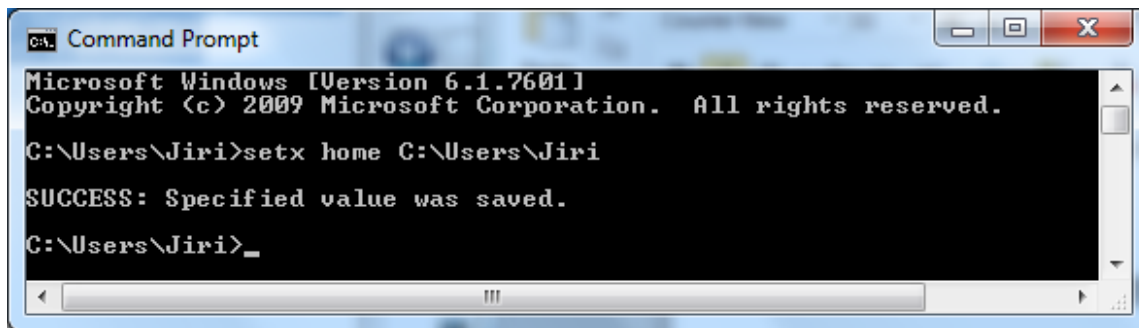
Instead of <password> write your codeplex password

Save the file without the .txt extension to `C:\Users\<your-username>` Note: Use save as – all types in notepad)



Go to start – all programs – accessories - **command prompt**, type

```
setx home C:\Users\<your-username>
```



```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

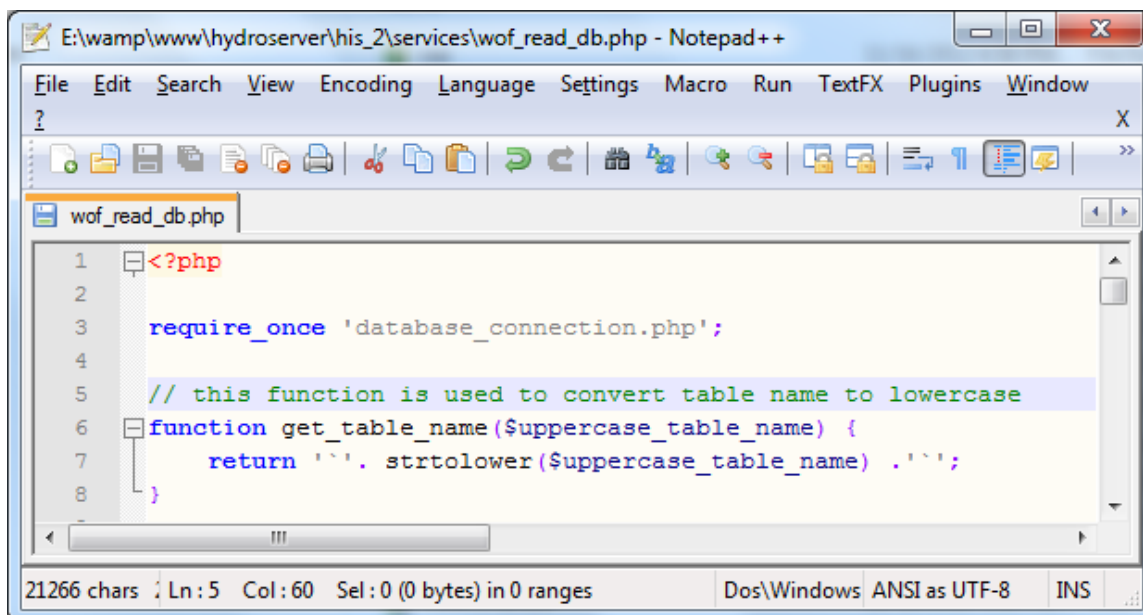
C:\Users\Jiri>setx home C:\Users\Jiri
SUCCESS: Specified value was saved.

C:\Users\Jiri>_
```

Note: if you're using something earlier than Windows 7, the `setx` command may not work for you. Use `set` instead and add the `home` environment variable to Windows using via the *Advanced Settings* under *My Computer*.

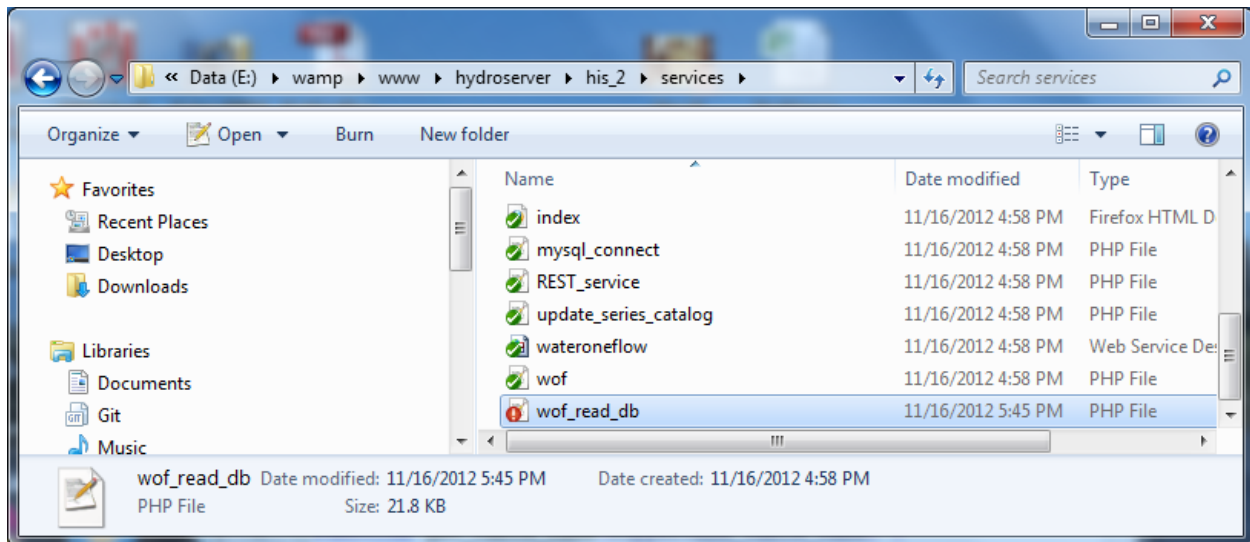
### Step 2.3 Make a change in the source code – edit existing file

For example, edit the file `hydroserver\services\wof_read_db` and add a comment:



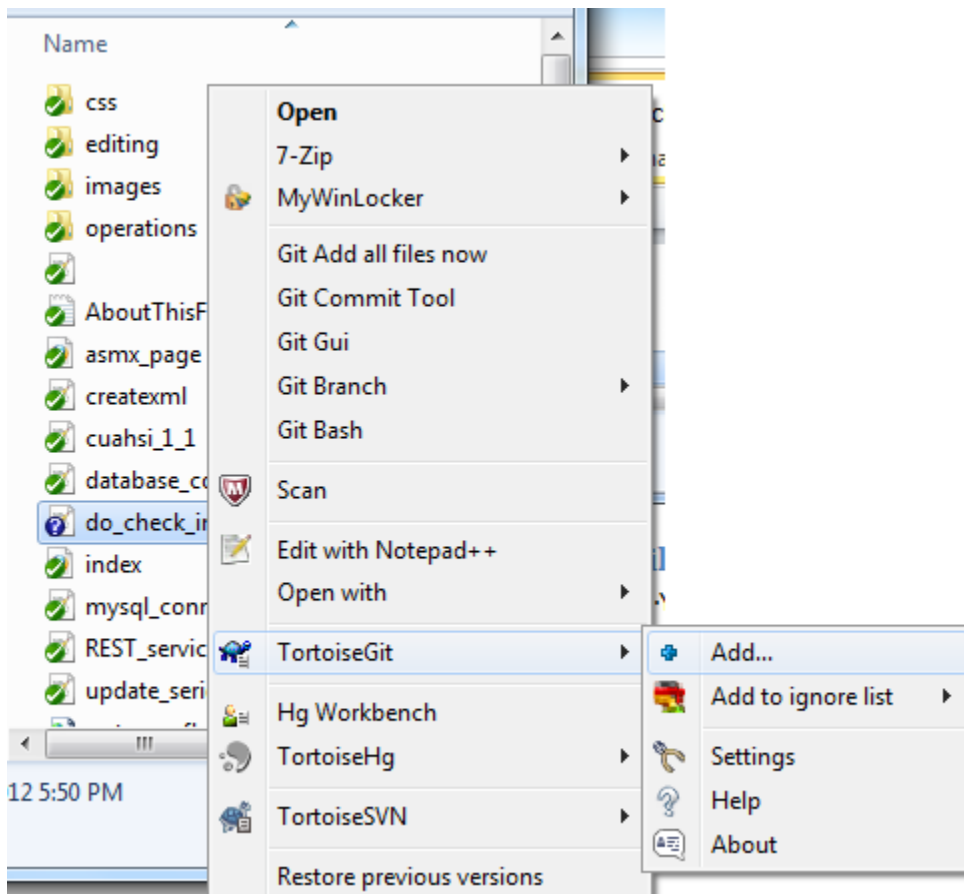
```
E:\wamp\www\hydroserver\his_2\services\wof_read_db.php - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window
wof_read_db.php
1 <?php
2
3 require_once 'database_connection.php';
4
5 // this function is used to convert table name to lowercase
6 function get_table_name($uppercase_table_name) {
7     return ''. strtolower($uppercase_table_name) .'';
8 }
21266 chars Ln: 5 Col: 60 Sel: 0 (0 bytes) in 0 ranges Dos\Windows ANSI as UTF-8 INS
```

In Windows explorer the file will be marked by a red icon:



## Step 2.4 Make a change in the source code – add a new file

The new file is marked in Windows Explorer with a question mark (?) icon. You must right-click on the file and select **Tortoise Git – Add**. The icon of the file will change to a plus (+) icon.

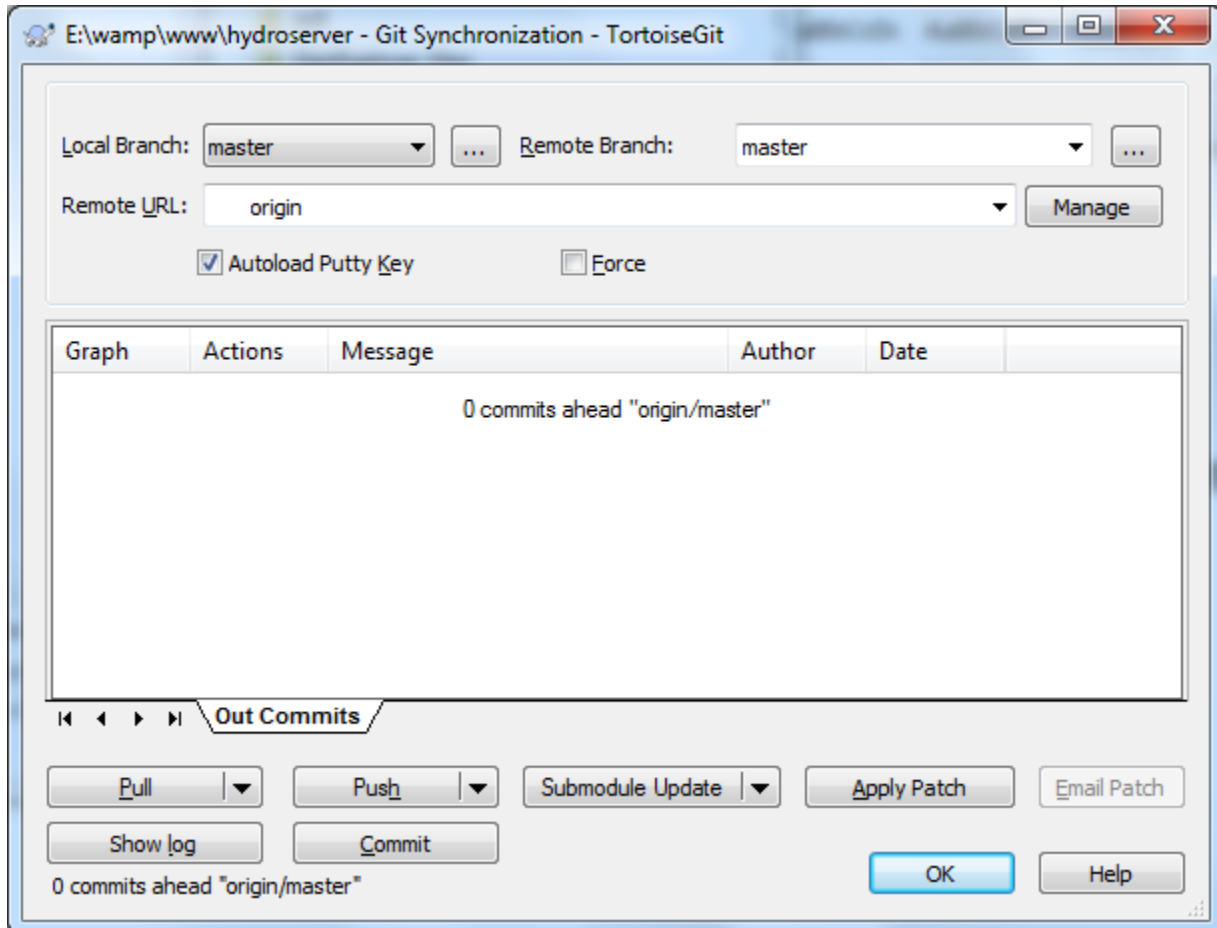


Note: If you created multiple files or folders you can also use the option: **Git Add all files now**.

## Step 2.5 Git Synchronization

After you made changes, right-click on the folder and select **Git Sync...**

The following screen shows.

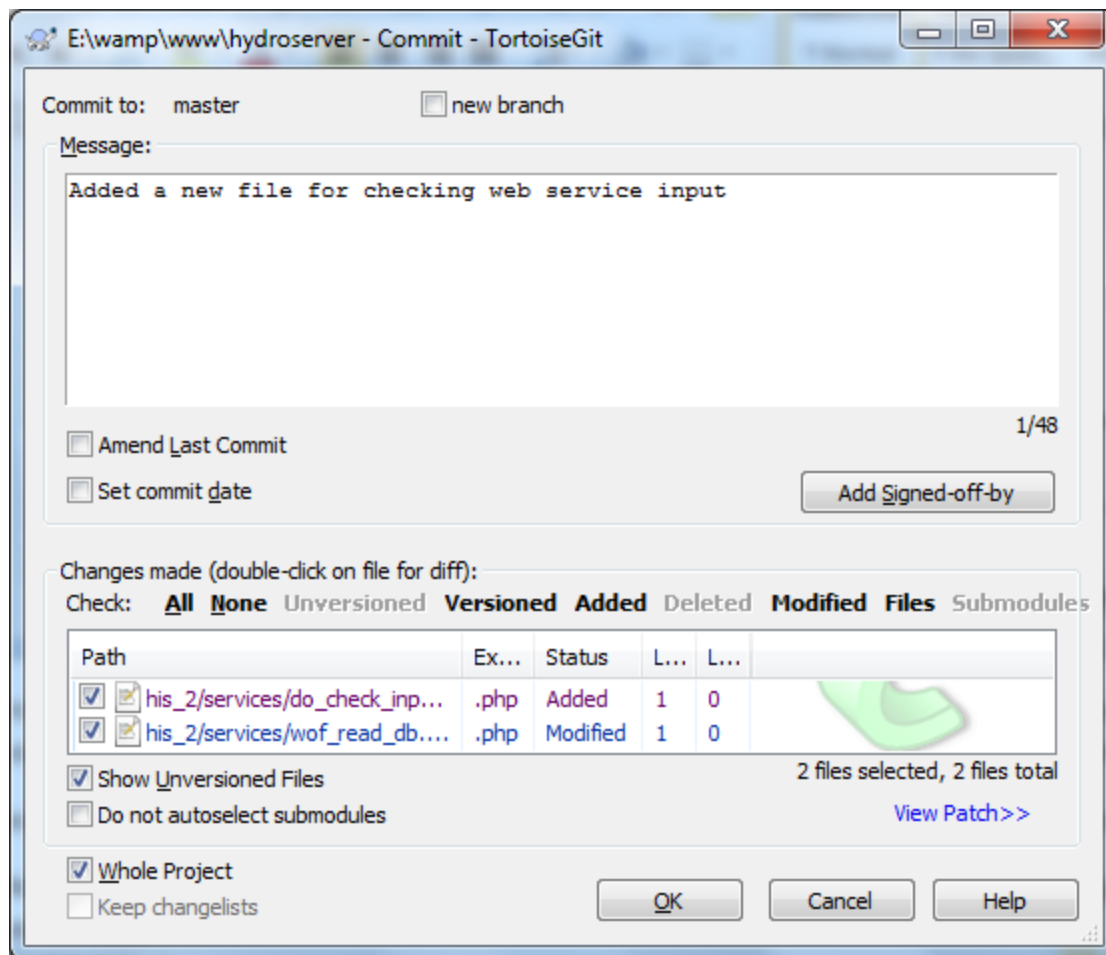


First, click the button **Pull**. This will download any changes made by other developers when you were working on the code. If there are no external changes, you will see a message: all files are up to date.

Second, click the button **Commit**. This will prepare your changes for upload to the codeplex.com server.

(Note: the first time, you will be prompted for a name and email. You should enter your codeplex username)

Next, a new window shows. Enter a summary of your changes and click **OK**.



Next, click the **Push** button. A progress window is shown. If successful, a similar message like this is shown:



