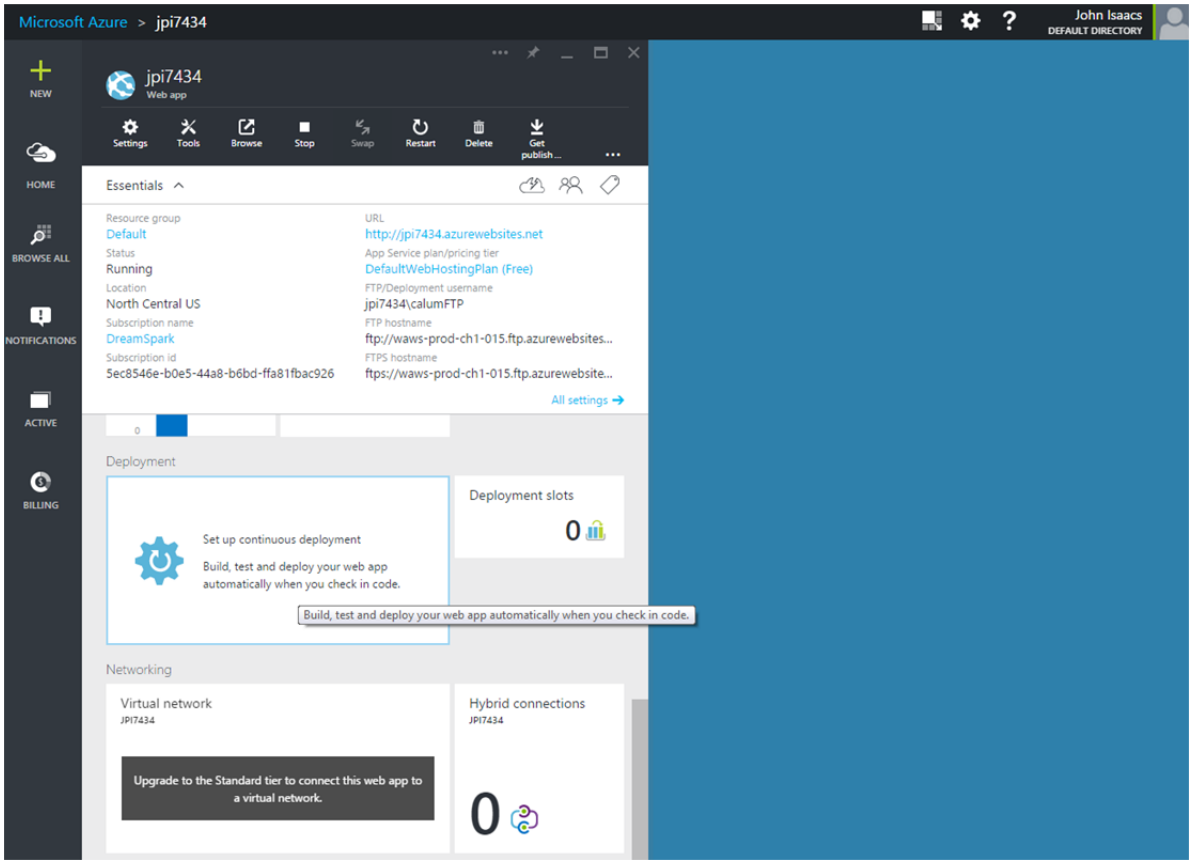
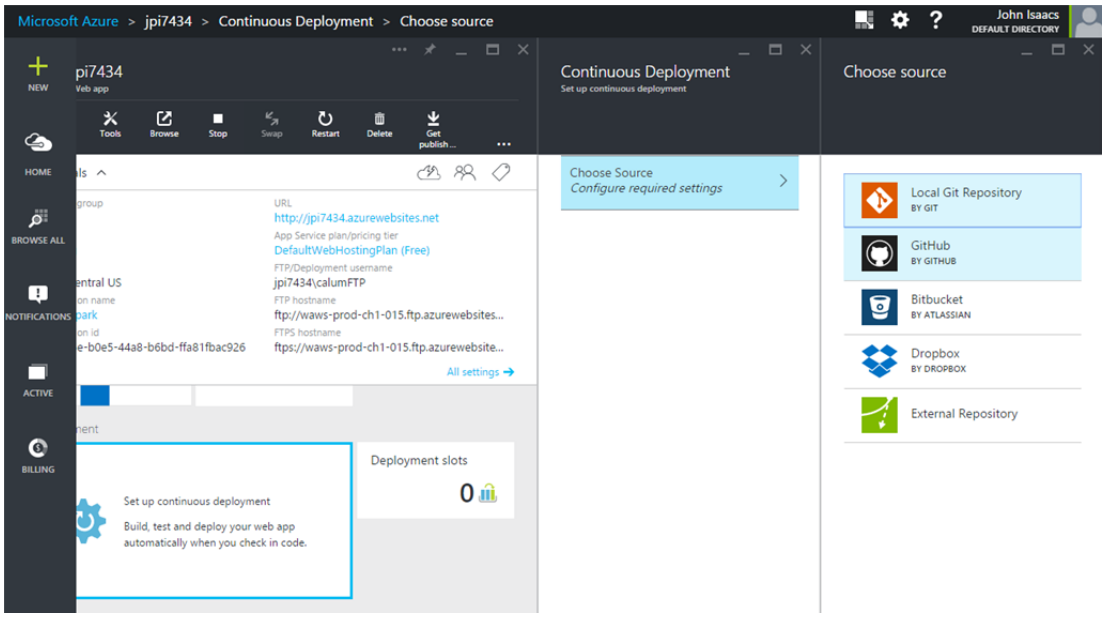
Linking GitHub with Azure

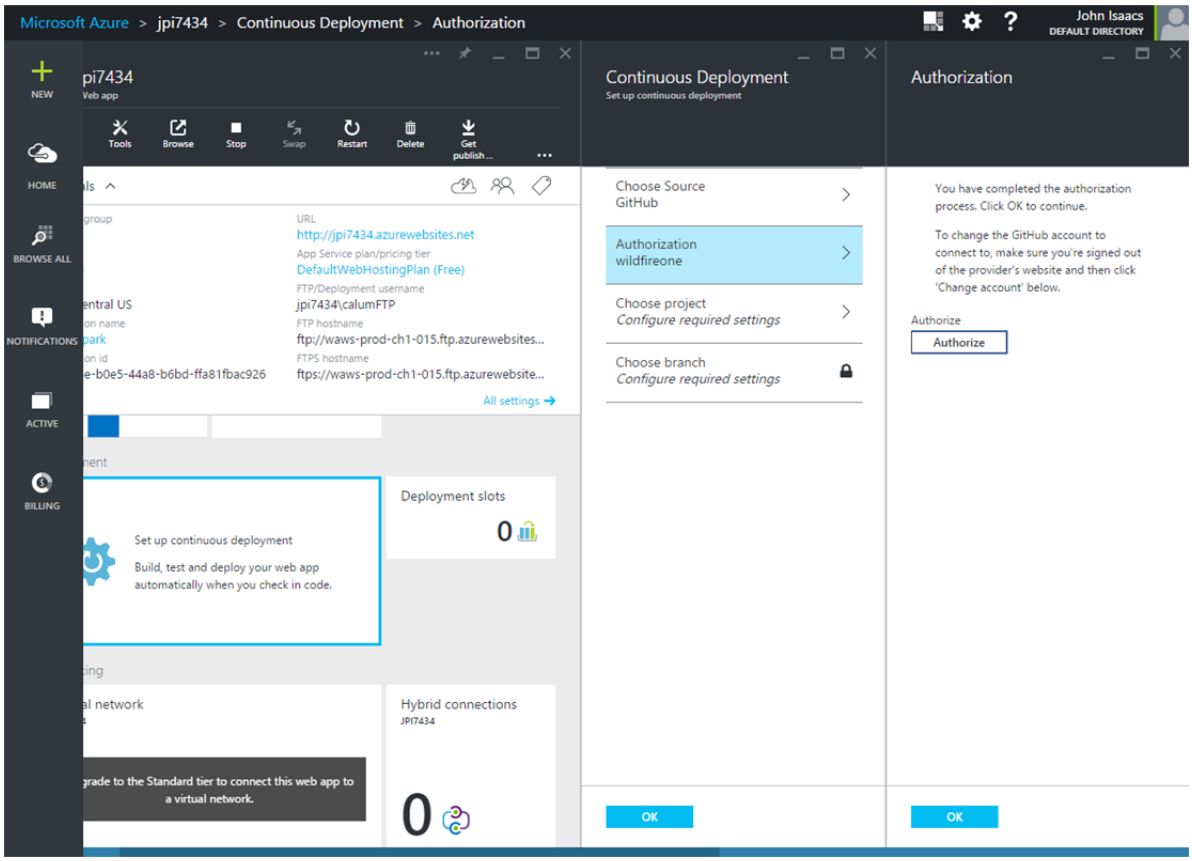
Azure allows us to deploy directly from our GitHub repositories. This means our deployed application /site is deployed from the up-to-date code we are developing.



In the server configuration page, scroll down until you see the “Set up continuous deployment” panel. Clicking on this will slide out a panel to the side where you can select the deployment source. Go ahead and click on the GitHub deployment link here.


Microsoft Azure > jpi7434 > Continuous Deployment > Choose source
John Isaacs
DEFAULT DIRECTORY
NEW
HOME
BROWSE ALL
NOTIFICATIONS
ACTIVE
BILLING
pi7434
Web app
Tools
Browse
Stop
Swap
Restart
Delete
Get publish ...
URL
http://jpi7434.azurewebsites.net
App Service plan/pricing tier
DefaultWebHostingPlan (Free)
FTP/Deployment username
jpi7434\calumFTP
FTP hostname
ftp://waws-prod-ch1-015.ftp.azurewebsites...
FTPS hostname
ftps://waws-prod-ch1-015.ftp.azurewebsite...
All settings
Set up continuous deployment
Build, test and deploy your web app automatically when you check in code.
Deployment slots
0
Continuous Deployment
Set up continuous deployment
Choose Source
Configure required settings
Choose source
Local Git Repository
BY GIT
GitHub
BY GITHUB
Bitbucket
BY ATLASSIAN
Dropbox
BY DROPBOX
External Repository

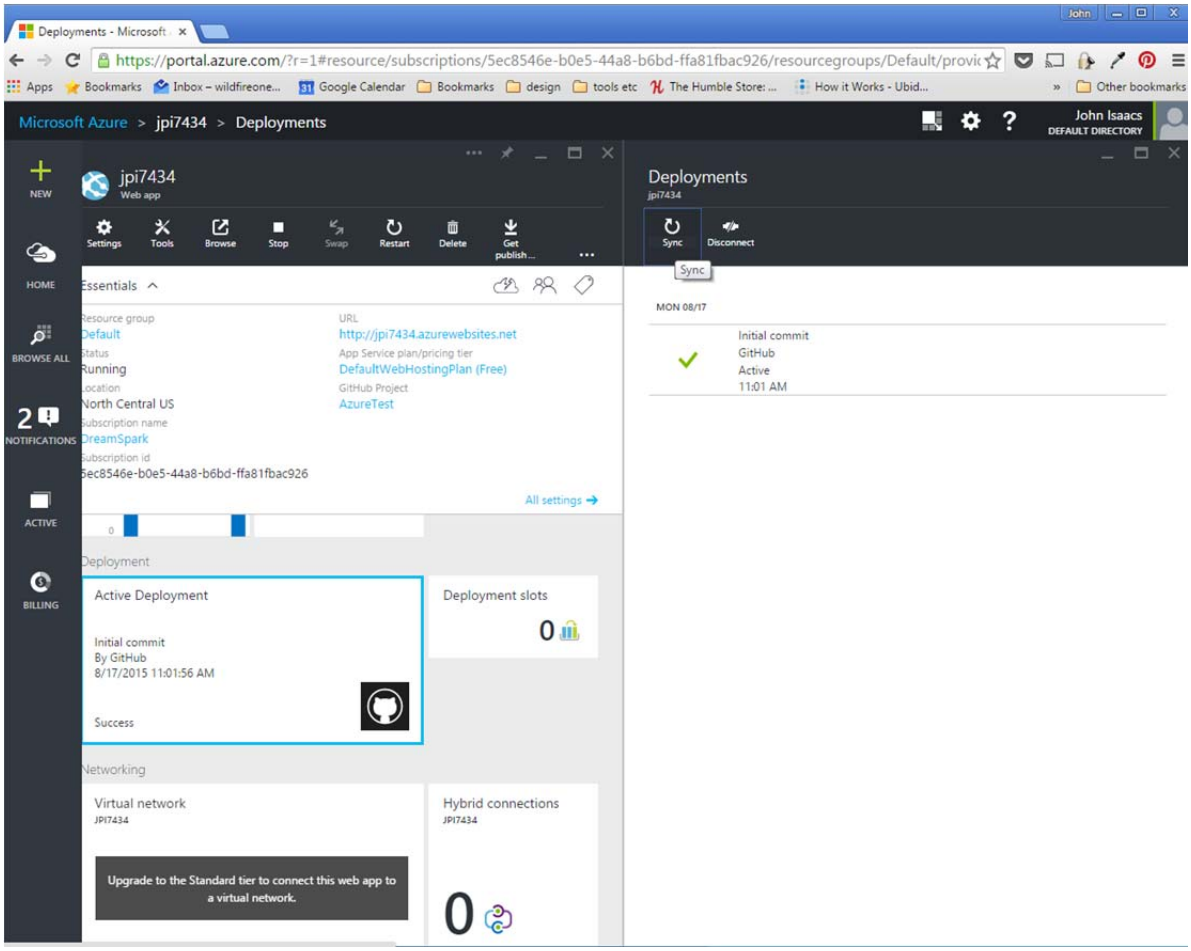
Another side panel will slide out asking you to authorise GitHub. When you hit the Authorize button you will be asked to enter your GitHub username and password. When this has completed you can then choose the project on GitHub you want to act as your deployment source.



You will probably only have one project to choose from, in this case AzureTest, our project from PHPStorm. If you have used GitHub previously you may have a number of projects to choose from, only HTML or JS project will work if deployed on Azure.

Once you have chosen your project just keep hitting ok until you are back at the main panel. You should see that the Continuous deployment pane now displays the GitHub Icon. Clicking the panel again will cause the Deployment panels to slide out to the right. Click the Sync button at the top of this panel and Azure will sync our GitHub project to our server. You should see a green tick and

whatever “commit message” you entered when your committed the code in PHPStorm

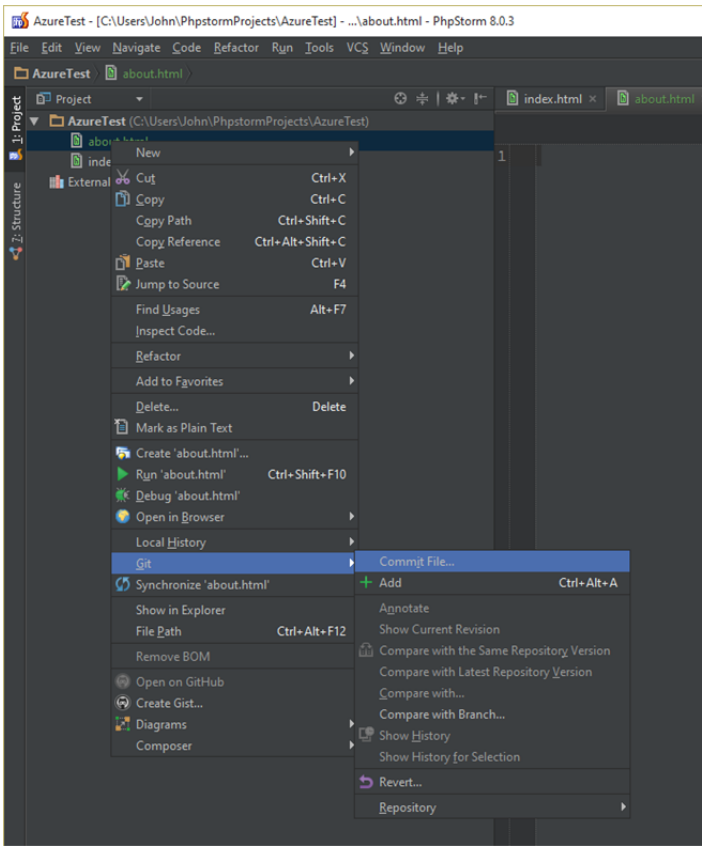


And that’s it we have now successfully set up continuous deployment via GitHub, if you visit your sites URL in a browser you should see your index page. Check this now to make sure it is live.

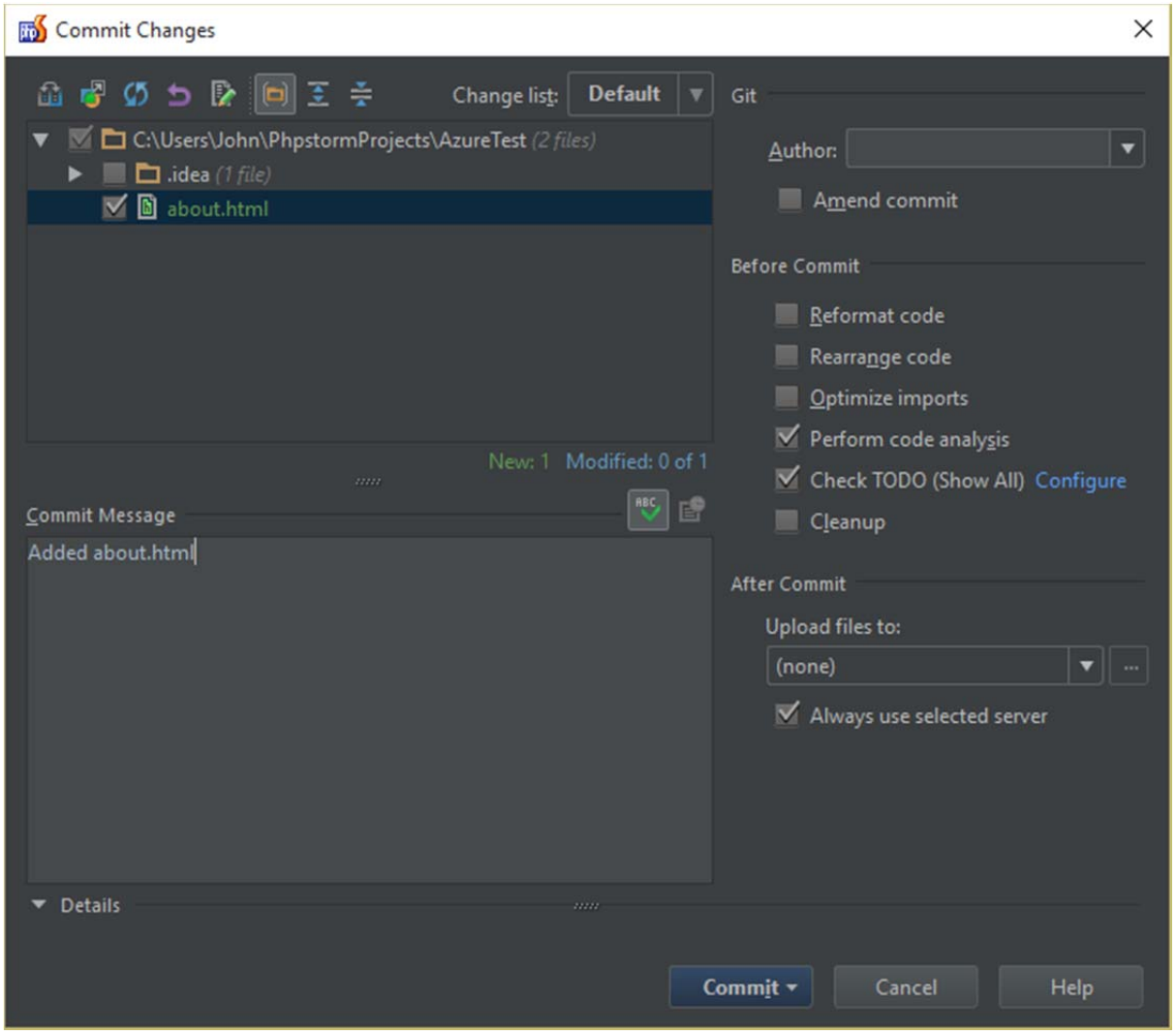
Deploying new code to Azure

We have set up continuous deployment on Azure using GitHub. This means that when we upload new code to GitHub, Azure will automatically update our live site. To update our code on GitHub we need to “push” changes to our repository. Because we have already set up a link to our repository in PHPStorm this is a relatively simple process.

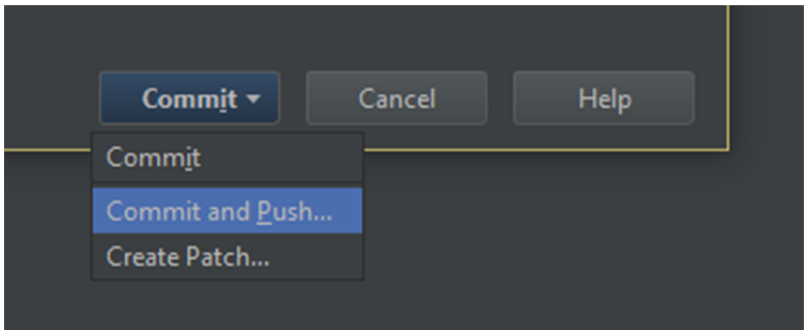
When you are finished editing an existing file or creating a new file in PHPStorm you need to tell it to push the code to GitHub. To do this right click on either your project directory or a file in the Project Explorer on the Left of the PHPStorm main window. In the context menu that pops up select Git, then Commit File (or directory).


AzureTest - [C:\Users\John\PhpstormProjects\AzureTest] - ...\about.html - PhpStorm 8.0.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help
AzureTest about.html
Project
AzureTest (C:\Users\John\PhpstormProjects\AzureTest)
External
index.html
about.html
New
Cut Ctrl+X
Copy Ctrl+C
Copy Path Ctrl+Shift+C
Copy Reference Ctrl+Alt+Shift+C
Paste Ctrl+V
Jump to Source F4
Find Usages Alt+F7
Inspect Code...
Refactor
Add to Favorites
Delete... Delete
Mark as Plain Text
Create 'about.html'...
Run 'about.html' Ctrl+Shift+F10
Debug 'about.html'
Open in Browser
Local History
Git
Synchronize 'about.html'
Show in Explorer
File Path Ctrl+Alt+F12
Remove BOM
Open on GitHub
Create Gist...
Diagrams
Composer
Commit File...
Add Ctrl+Alt+A
Annotate
Show Current Revision
Compare with the Same Repository Version
Compare with Latest Repository Version
Compare with...
Compare with Branch...
Show History
Show History for Selection
Revert...
Repository

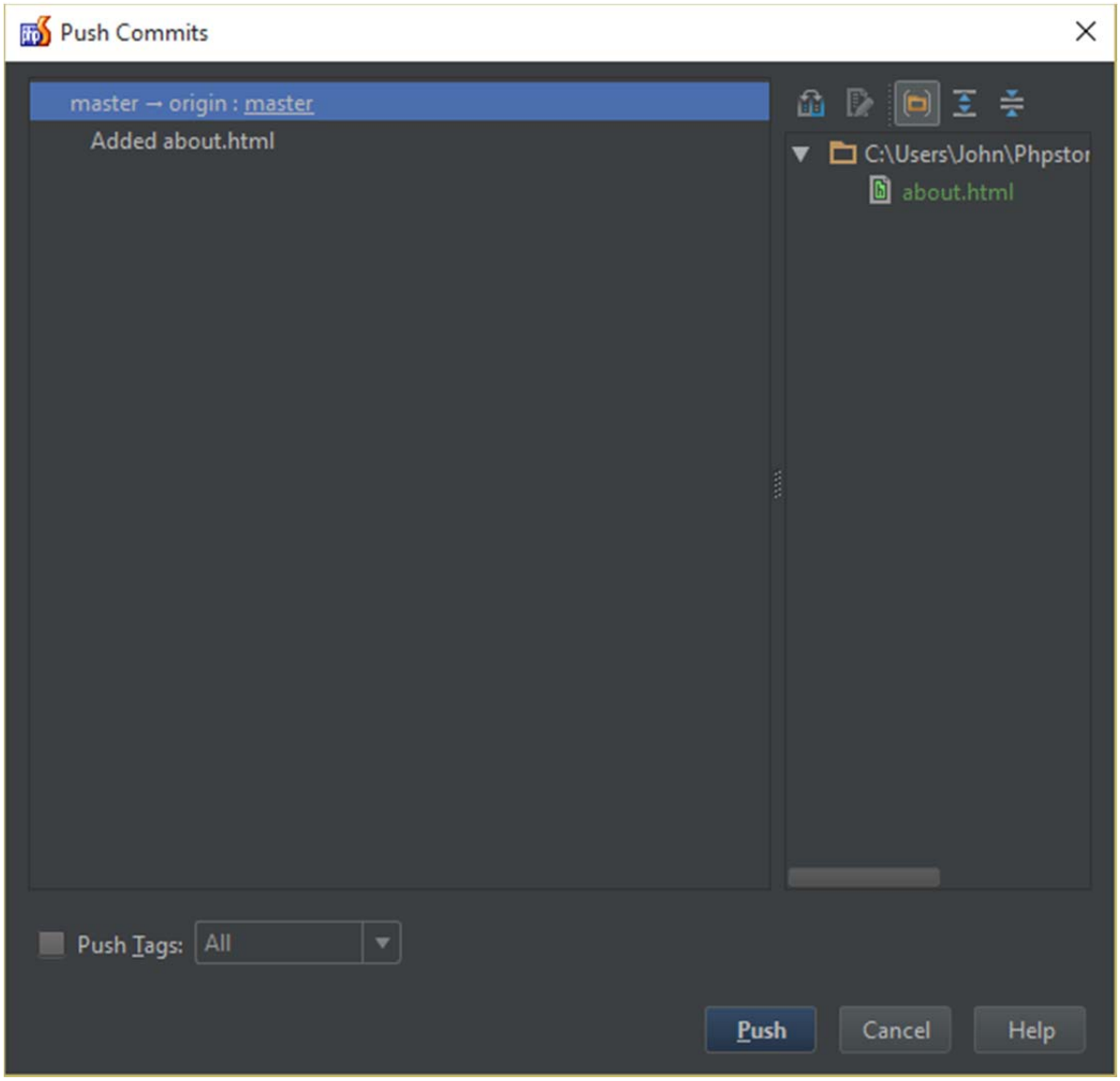
A new window will open which describes what files have changed. You can also enter a new commit message describing what changes you have made.



When you are ready to commit **do not click the Commit button.**



Instead hover over the commit button and select “Commit and Push”. The Push Commits window will then appear finally allowing you to push the changes to GitHub.

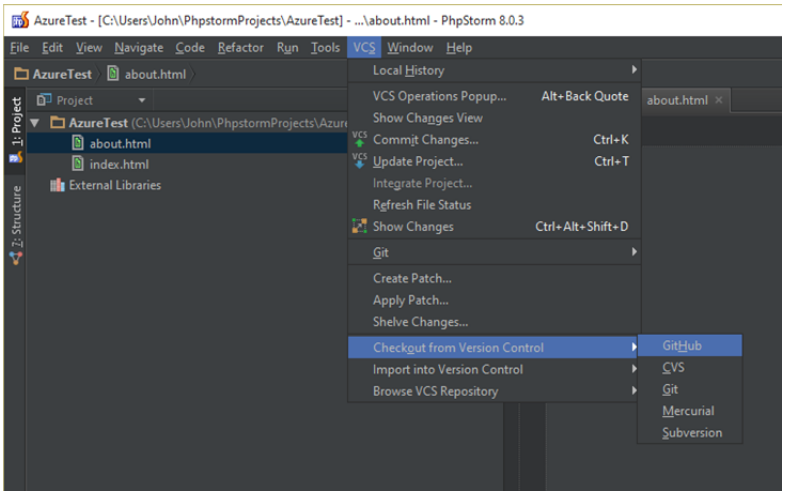


Once this has completed your new code will be deployed to your live site automatically.

Cloning a Repository

There will be occasions when you want to either edit your code on another machine, or develop using code someone has shared with you. PHPStorm allows us to create new projects by cloning source from GitHub repositories.

Just select VCS from the main menu, towards the bottom of the dropdown you will see “Checkout from version control” clicking this will give another level where you can select “GitHub”.



The “Clone Repository” window will open. The First field will provide a list of repositories that are already connected to your GitHub account (e.g. your repositories and those you contribute to). You can also paste in the link of any GitHub repository you would like to clone. The Parent directory and Directory name define where the new project will be stored on your system. Finally hitting clone will automatically create the project from the online source. This project will already be connected to your GitHub account so you can now push code to it just as before.