

Server Publication Using Windows

Activity One: How to Connect to the CSCI Server through WinSCP

1. If you haven't already done so, install WinSCP on your local pc. You can obtain WinSCP from the following site:

<http://winscp.net/eng/download.php>

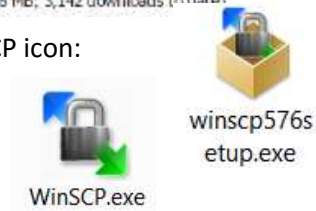
(Choose the installation package.)

Download WinSCP

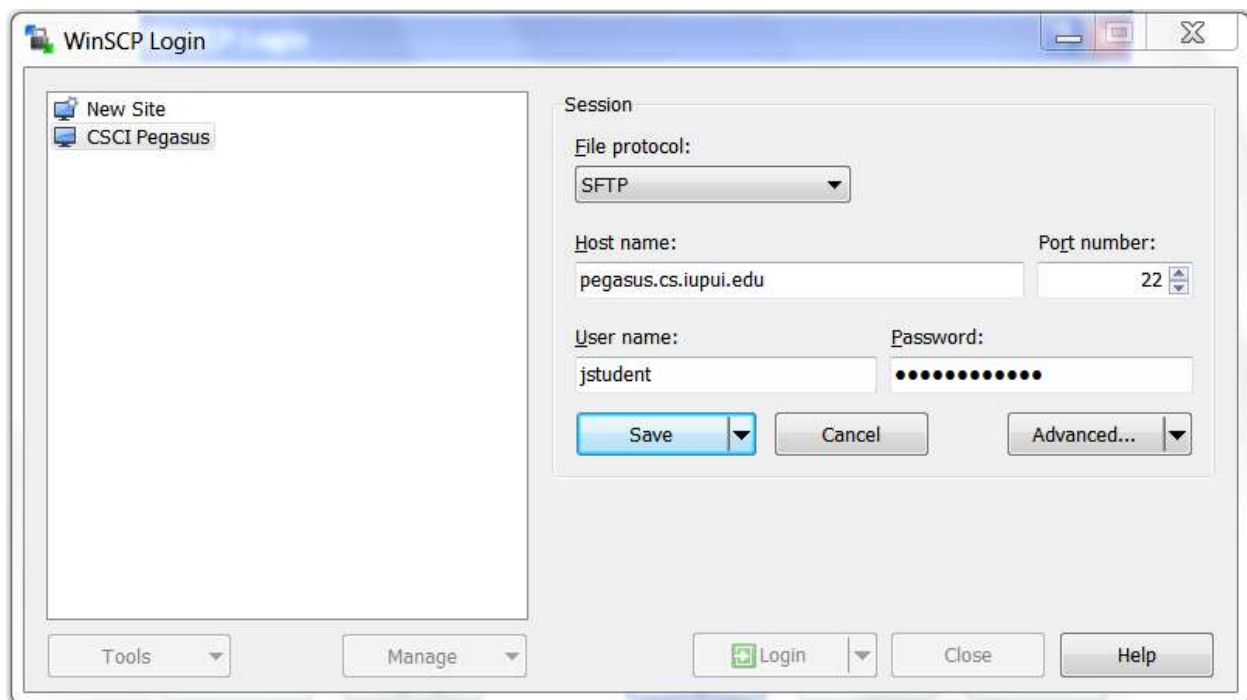
WinSCP 5.7.6

Installation package (5.6 MB; 764,801 downloads to c
~~Portable executables~~ (4.7 MB; 136,687 downloads to
~~.NET assembly / COM library~~ (4.6 MB; 6,174 downlo
~~Source code~~ (8.8 MB; 3,142 downloads to date)

2. Launch WinSCP (usually by double-clicking on the installed WinSCP icon:




3. When WinSCP launches, a login popup menu will be displayed:

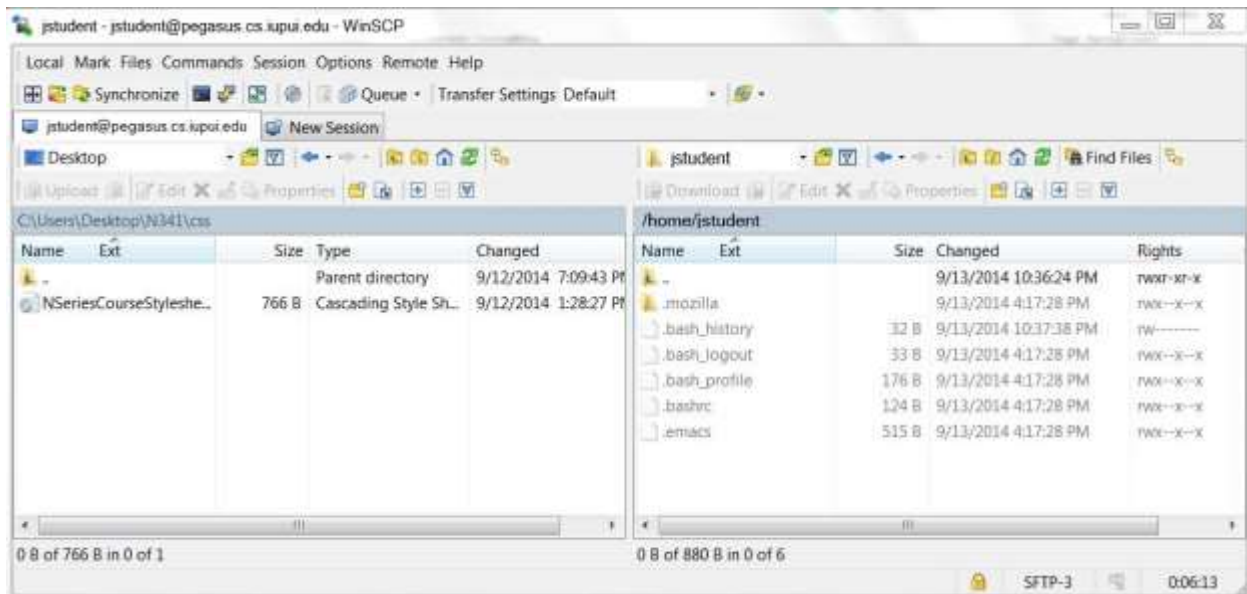


You need only fill in three fields:

- A. Host name: pegasus.cs.iupui.edu
- B. Your user name (your university login)
- C. Your Password (your university passphrase)

Once you have filled in these three fields, press the  button at the bottom middle of the pop up screen. A status screen should display for a moment. It will show activity statements that are occurring as the connection between your local pc and Pegasus is established. When all the steps have been performed, the activity screen will be automatically replaced by a split screen as illustrated below.

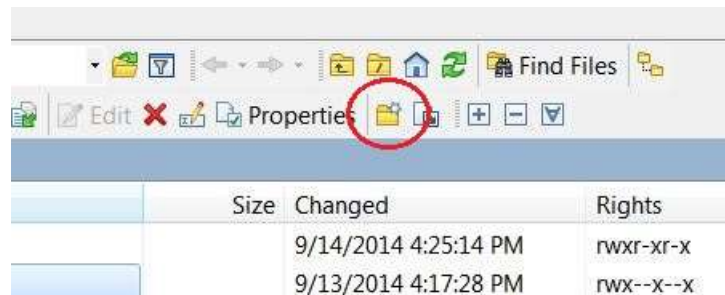
4. The split screen should now appear.




This split screen is typical of File Transfer Programs (or “FTP” programs). The left hand side screen corresponds to the pc you are typing on (called the “local” or “client” pc). The right hand side corresponds to the pc you are connected to (called the “remote”, or “host”, or “server” pc).

Activity Two: Create Course Directory Structure with Correct Permissions

Notice on the menu of the remote WinSCP screen is a picture of a file folder with a star. We'll be using this button next to create subdirectories within your Pegasus account.

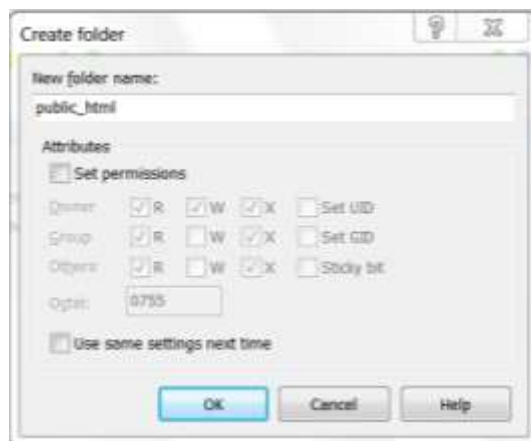


Pegasus is a university machine, which serves many different kinds of customers. Some of the work placed on Pegasus is very sensitive, such as research being conducted by a senior faculty member, etc. Other content might be student files – very important, but not of a critical nature. To make certain that a student doesn't somehow "step on" critical file content on Pegasus, it is customary to segregate student work inside of a "software fence" of sorts. By convention, this software fence is often called "public_html". So... we will create a sub-directory at your home account called public_html, and all your work will be placed inside that directory. IMPORTANT: public_html is case sensitive, and there are no spaces.

Important: Make sure the magic fairies know you are working on the Pegasus side and not your local pc side to create subdirectories. You let them know this by single clicking anywhere on the right hand side of the screen. This is like saying "Yo dawg, I want to work up on Pegasus for a minute." To create the subdirectory called public_html, click on the Create Subdirectory icon  at the top right hand side of your screen. In effect, you are saying to the magic fairies: please create a subdirectory for me.

When you click on the create subdirectory icon, a text box will appear, as shown below.

The filename textbox:



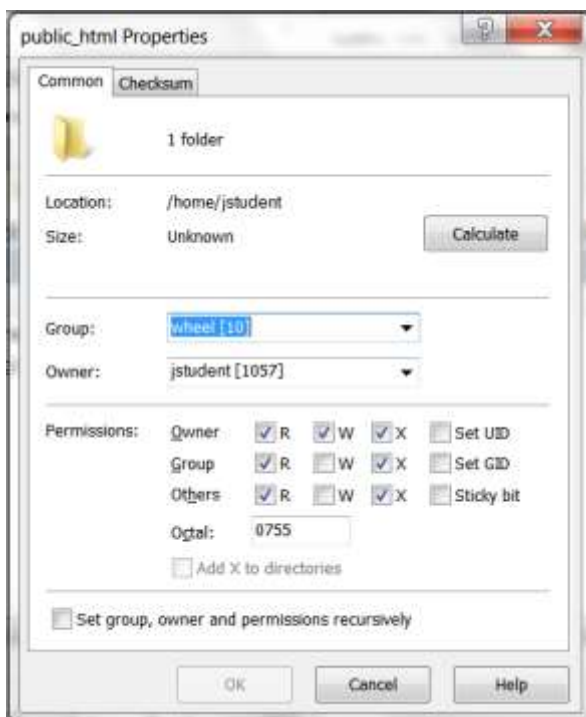
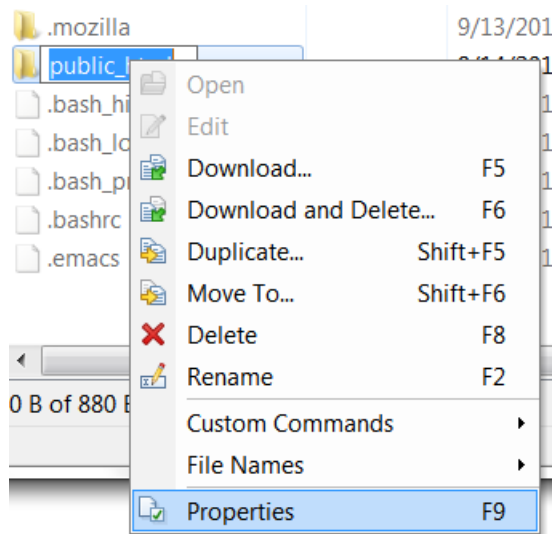
Type in the word “public_html” and press the OK button. The magic fairies will create a subdirectory called public_html in your Pegasus account, just as you requested.


Name	Ext	Size	Changed	Rights
..			9/14/2014 5:07:48 PM	rwxr-xr-x
.mozilla			9/13/2014 4:17:28 PM	rwX--X--X
public_html			9/14/2014 5:14:03 PM	rwxr-xr-x
hash history		32 B	9/13/2014 10:37:38 PM	rw-----

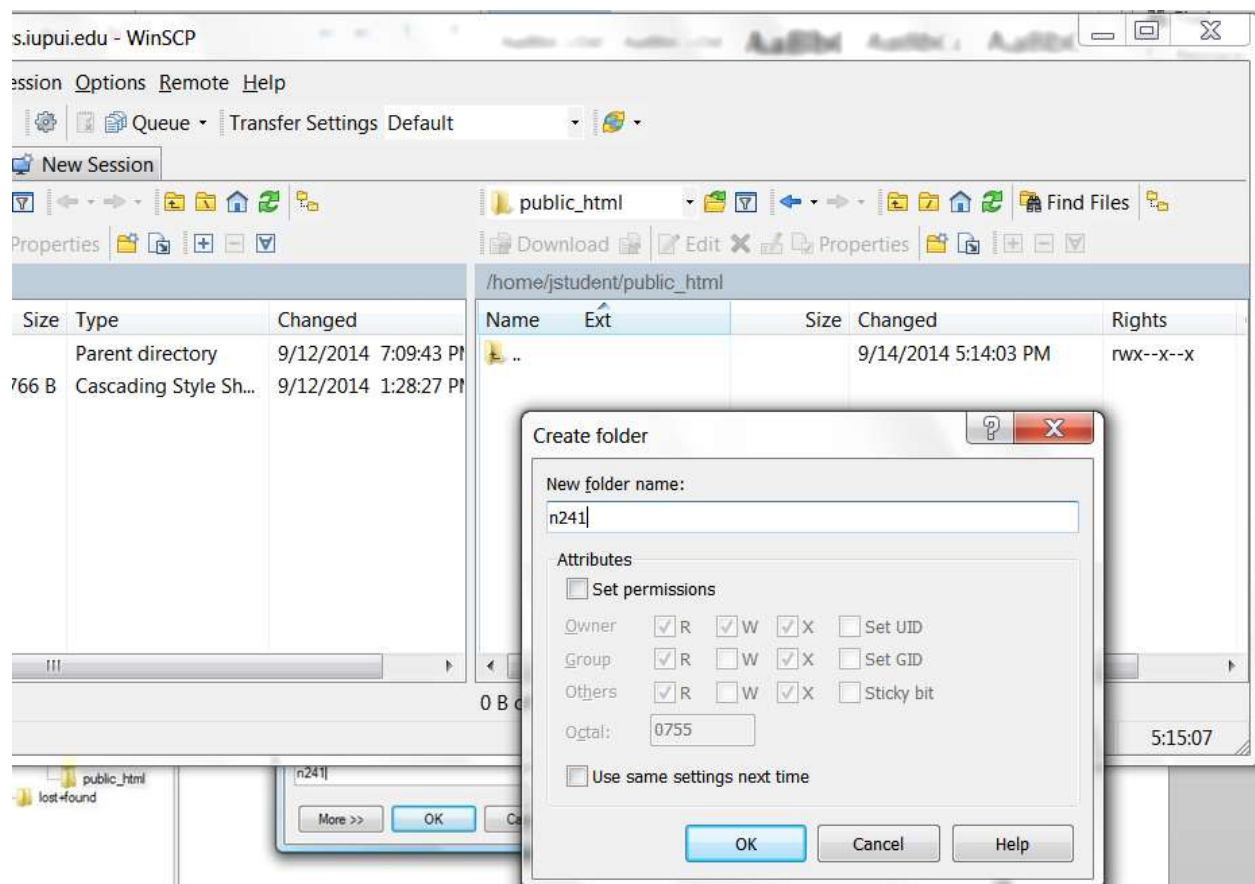
Notice the little “rwX-” symbols to the right of the file creation date. They represent permissions for the new subdirectory. Here is what you need to understand: Pegasus doesn’t run Windows as an operating system. It runs an operating system called Unix (or Linux). Unix recognizes three kinds of people: Owner, Group and World. As you go from one FTP program to another, these categories might be given a slightly different name, but the concept is the same. You are the owner of the subdirectory, a group of people if you are working together on a group project, and world is the, well, rest of the world, such as anyone who gets on the Internet, even your Aunt Matilda in East Cupcake or your Mom wherever she might be. Furthermore, these three different groups of people can have access to do up to three kinds of activities: Read, Write and Execute. As owner, you want to be able to do everything (Read, Write and Execute), but while you want everyone else (Group and World) to be able to read and run your works, you don’t want them to be able to dork it up! So, you will give yourself rights to do everything, but you

will restrict everybody else to reading and executing. To do this, you will need to check the permissions on your subdirectory, and make certain that they are “set” to 755.

So, right click on public_html and a drop down menu will appear. Choose Properties, and when the Properties menu is displayed, verify that they are set to 755. If they are, click cancel. If they aren’t, fix them so that they are set to 755!



Now, we had SOOOO much fun creating the public_html directory that we are going to mostly do it all over again. Specifically, we are going to now create yet another subdirectory, this time INSIDE of public_html. For example, you might want to have a subdirectory for each class you are taking. You at least want to have a subdirectory for our class, and we will call it n241. (Note the lower case n, and no spaces!). Go inside of the public_html directory by double clicking on it. Next, click on the create subdirectory icon  again to cause the directory text field to appear. This time, type in “n241” and press OK.



Verify that its permissions are set to 755.

Open a browser (such as Chrome, Mozilla, IE or Safari), and go directly to the [N241 Class Web Page](#).

Look towards the top of the page, and click on the link for the (Class Gallery | DE Class Gallery).

Click on your name in the Class Gallery list. You should see a screen that looks similar to:

Index of /~jstudent/n241

Name	Last modified	Size	Description
 Parent Directory		-	

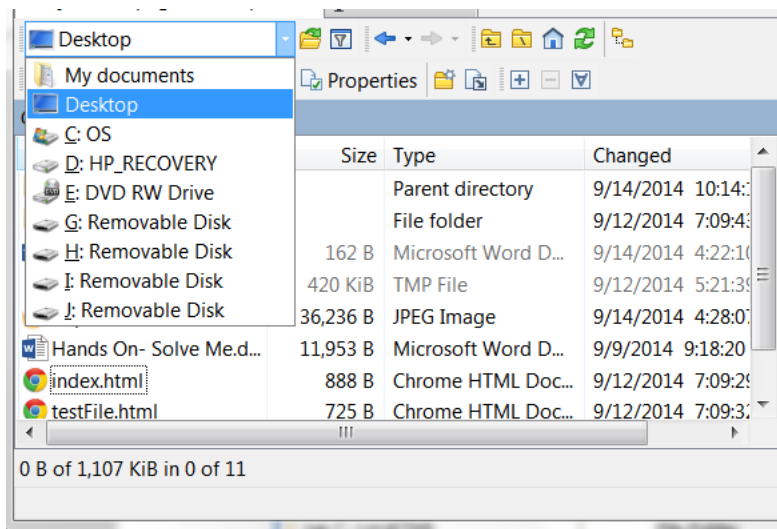
Apache/2.2.15 (Red Hat) Server at cs.iupui.edu Port 80

(Of course, it should reflect your username.) Leave the browser open.

If for some reason you don't see something similar, **contact your instructor** and we'll work it out!

Transfer your myFirst.html file from your local pc up to your Pegasus n241 subdirectory. To do this, locate the file you want on the left hand side of the WinSCP split screen. Simply drag it over to the right hand side of the screen and let go.

Note: if the file you want to transfer isn't currently visible on the left hand side of your pc, you might have to "move around" in your directory structure to locate them. Notice that on BOTH the left and right hand sides of the screen, there are navigation keys and a "location" text area that allow you to see where you are and navigate to somewhere else:



Move around as required until you locate your n241 work. Click on the file and drag it to the right hand side. A copy of your file will appear on the right side of the screen. You have just moved one file to the Pegasus server!

If a file with that name already exists, you might get a confirmation screen, or a Write Over prompt, or whatever. Answer appropriately to cause the file to be copied over to Pegasus. Once the file is over on Pegasus, right click on the file, choose properties, and make certain the properties are set to 644. (So – directories get set to 755, and files get set to 644)

As a final step in this activity, verify that your file is really on Pegasus, in the correct location, and visible:

Refresh the browser window that is open to your directory on the CSCI server. (The “chasing” arrow



button on the browser menu bar



[Parent Directory](#)

will accomplish this). Your class web page

should now have your myFirst.html file listed under .

Ok, we’re almost done... Return to the Lab html file and begin Activity Three.

Activity Three: Create Class Index Page

View the Sample Student file from the link provided in the Activity Three instructions. Right click on the page and choose “View Source” on the file, copy the displayed source code, and paste it into a new file in your editor (Notepad, Notepad++, TextWrangler, etc.). Inside your editor, scroll down in the code until you get to the part that says: N241 Course Page for Josephina Student. Edit this line to reflect your name instead of Josephina’s. Scroll back up to the comment lines. In HTML, these are lines of code like this:

```
<!--  
TITLE:  
AUTHOR:  
PURPOSE:  
ORIGINALLY CREATED ON:  
LAST MODIFIED ON:  
LAST MODIFIED BY:  
MODIFICATION HISTORY:  
  
-->
```

These lines are ignored by the browser magic fairies, but are like little sticky notes to a web developer.

Fill them out so that they reflect your name and current dates. When you are finished, save your file as index.html

Note the lower case letters. The index.html file is a special name that tells the browser to default to this file when the user comes to your directory on the web. Alright, drag the index.html file into your n241 directory (using WinSCP).

Refresh your browser and view your class web page. The index page should automatically display, with active links to the myFirst.html page and the HeadFirstLounge.

Return to the html Lab Page and begin Activity Four, and then go straight to Activity Five.

OH MY GOODNESS, YOU JUST EARNED SO MUCH CHOCOLATE:

