R·I·T

Information Sciences and Technologies
Golisano College of Computing and Information Sciences

hw 03: SFTP – Getting Files Online

**Part I - Putting the home page online**
Following the SFTP lecture was a hands-on **FileZilla** demo. Details are given below.

Activities

1. Use BBEdit or a local browser to review the page built in **hw02.** Make sure everything works. This page uses an HTML text file and a binary image file. A browser can access this web page from the Internet once these two files are made accessible by a web server. This course uses the Apache web server on Serenity. Both files must be transferred to Serenity.

2. Launch **FileZilla** and fill in the four required items of information (see diagram below):
   a. *Host* (URL of the web server, **serenity.ist.rit.edu**)
   b. *Username* (student login for Serenity, i.e. abc1234)
   c. *Password* (student password for Serenity)
   d. *Port* (22 for SFTP)

3. Now click the **Quickconnect** button.

4. FileZilla places the user in his or her Serenity **login** (**home**) directory.
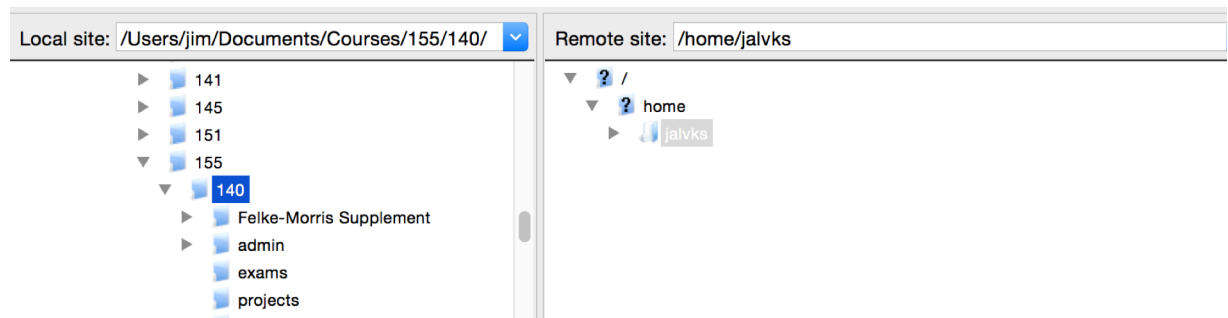
5. Visible on the left is the client (local lab machine) and on the right the current login directory (folder) on Serenity.

6. All web files will need to go into the **Sites** folder of the **login** directory. Setting permissions of this directory to the required value of 755 is necessary to allow the web server software to open the Sites directory, and list its contents. Select the **Sites** folder, right-click to obtain a pop-up menu, and click on *File Attributes…*

In the *Change file attributes* pop-up, type in 755for the numeric value and click *OK* thereby setting the access permissions for the **Sites**[1] directory (folder).
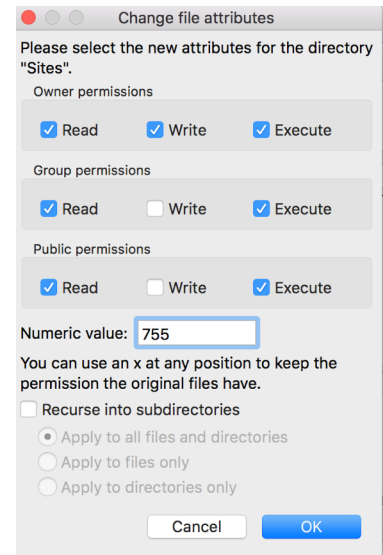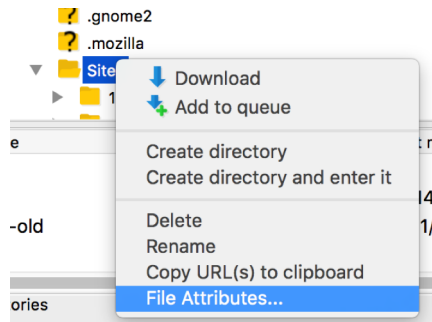
7. With the **Sites** directory permissions set, will be visible in the lower right quadrant (window).

8. Right-click on the Sites folder, and select *Create directory* to create a new directory here called **140**. Set this new directory's permissions to **755**, and click to enter it.

9. Drag the HTML file and image file from hw01b to this window. This action uploads a copy of each file to the user's Serenity account automatically.

10. Change the file permissions on **index.html** to **644** so that the web server software can read the file and send it to a client's web browser.

11. Set the file permissions on the image file to **644**.

12. Open a web browser and type in:

    http://serenity.ist.rit.edu/~abc1234/140/index.html (replace abc1234 with your actual RIT login)

    If all goes well, you should see your page in the web browser!

Troubleshooting
13. "404 - File Not Found" or similar: Check the URL; Were the files put into the **Sites/140** folder?

14. "403-Forbidden" or "Access Denied" or similar: Check the permissions for the **Sites** folder and the **index.html** file

15. "500 - Server Error": Ask the TA or your Professor for help

    "403-Forbidden" or "Access Denied" even *after* repairing all the file and folder permissions means that the **login** directory (abc1234 folder) permissions could be bad. To fix this, navigate to it in with FileZilla and making sure the login directory has **755.**

---

[1] Although Sites is set to 755, you may find out later Serenity has changed it to 751. While annoying, this is not an issue about which one needs to be concerned.

Part II – Assignment Submission

In the dropbox comment area, type the **URL** shown in step 12 above. No files are submitted. The TA will complete the grading rubric and place post it in the *Evaluation* section of the dropbox as feedback to the student.

Part III – Grading Rubric

Category	Weight	Score
Part I		
Sites directory permission is set to **755**	1	0
140 directory created	1	0
140 directory permissions is set to **755**	1	0
Index.html file in **140** directory	1	0
Index.html permission is set to **644**	1	0
http://serenity.ist.rit.edu/~abc1234/140/index.html	5	0
TOTAL:	**10**	**0**