

Intro

In CS 159, we use a Windows tool called PuTTY to connect to the “sage” ITaP server to do course work. Under the hood, PuTTY is using a protocol called SSH (secure shell) to remotely connect to the server – similar to how software remote opens a window that is actually running on a remote server.

OS X has SSH built right in, so there is no need to download anything new.

One Time Connection

We can quickly connect to Sage by opening the “Terminal” application. It can be found in Applications>Utilities>Terminal.

To connect to sage, simply type the command

```
ssh username@ics.purdue.edu
```

Where “username” is your career account username. Give your password at the prompt and you will be connected. If asked about security, answer “yes.”



```
joel — ssh — 80x24
Last login: Wed Jan  9 17:35:08 on ttys000
Joels-MacBook-Pro:~ joel$ ssh jsampso@sage.ics.purdue.edu
Password:
Last login: Wed Jan  9 17:37:09 2013 from c-98-223-53-192
Sun Microsystems Inc. SunOS 5.10 Generic January 2005

This summer, ITaP is phasing out Solaris in favor of Red Hat Linux.
Please log into guru.itap.purdue.edu and make sure it does everything
you need.

===== CS 159 Announcements =====

Welcome to CS 159, spring 2013 semester!

Follow us on Twitter @cs159spring13

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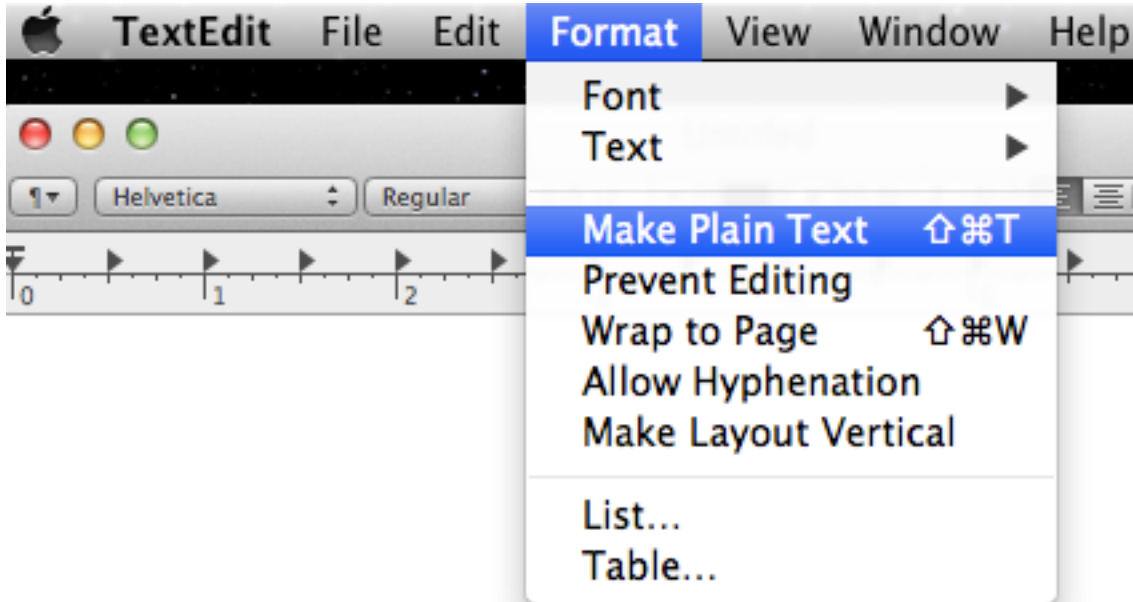
You are currently logged in as: jsampso
if this is incorrect, please log out now.

=====

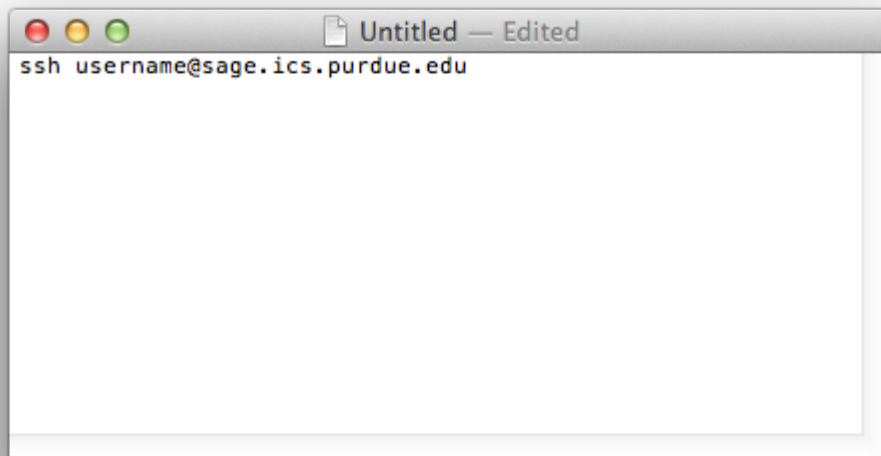
1802 sage.ics.purdue.edu ~ %
```

To Create a Shortcut to Connect Multiple Times

1. Open your favorite text editor. We will create a file called `sage.command` to serve as our shortcut. NOTE: If you use Apple TextEdit, you will need to make it plain text .

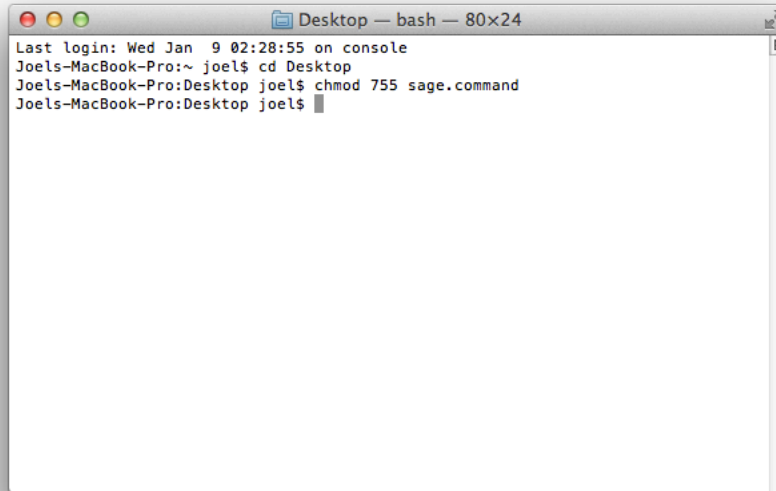


2. Next, type the command to connect to the server in the text editor, where `username` is your Purdue career account username.



3. Save the file (I saved it on my Desktop) as `sage.command` – you could name it anything you want as long as it has the `.command` extension.

4. Finally, we will make the shortcut “executable” - that is, make it launch when you double click on it. Open Terminal again and navigate to the folder containing the `sage.command` file. (Since I saved mine on the Desktop, I just typed `cd Desktop`). Remember UNIX navigation commands – `ls` and `cd`



```
Desktop — bash — 80x24
Last login: Wed Jan  9 02:28:55 on console
Joels-MacBook-Pro:~ joel$ cd Desktop
Joels-MacBook-Pro:Desktop joel$ chmod 755 sage.command
Joels-MacBook-Pro:Desktop joel$
```

Type the following command to make the file executable:

```
chmod 755 sage.command
```

5. All done! Double clicking the new shortcut will quickly load Sage. Consider placing the shortcut in an out of the way folder like Documents, and then dragging its icon to the dock for even more “one-click” convenience.

