Using Omega

How to install and use recommended tools

Omega

Omega is a university-owned, student accessible UNIX server. You can log into it using your UTA netid and password.

OIT FAQ page for Omega has more details...

https://uta.service-now.com/kb_view.do?sysparm_article=KB0010329

You will need the ability to transfer files from your PC to Omega since you will be compiling programs on Omega.

Omega

FileZilla is the recommended (by OIT) FTP program.

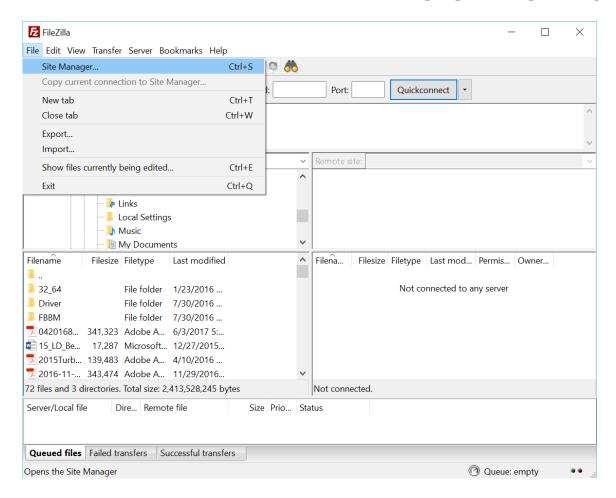
FileZilla works for both PC and Mac and you can download it from

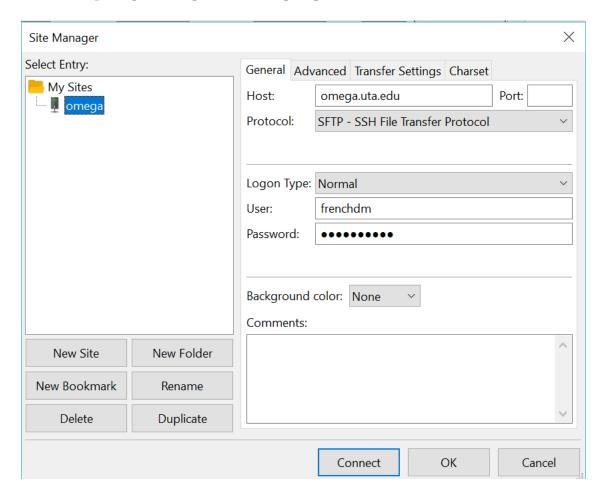
https://filezilla-project.org/

You should not download it from any other site – you will not be guaranteed the latest and safest version if you download from some other site.

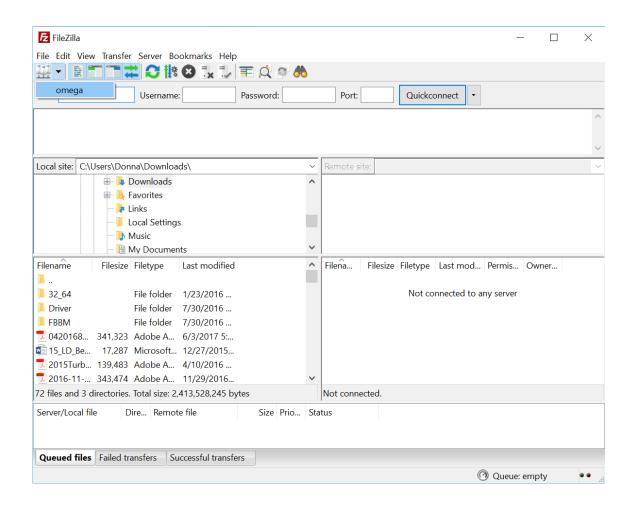
The next few slides show how to configure FileZilla and use it.

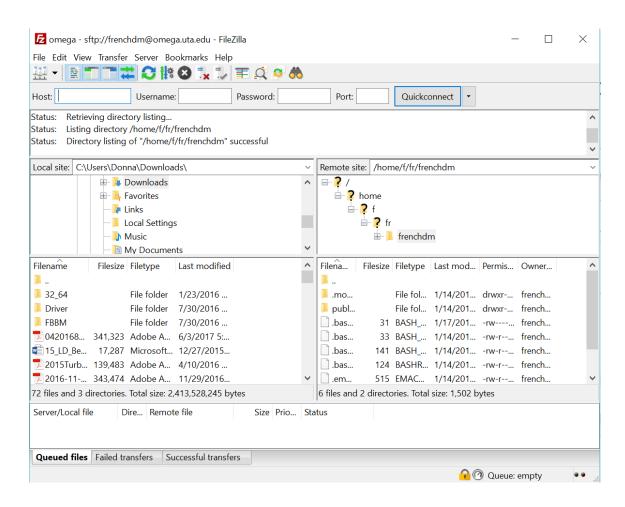
FileZilla FTP Tool for both PC and Mac





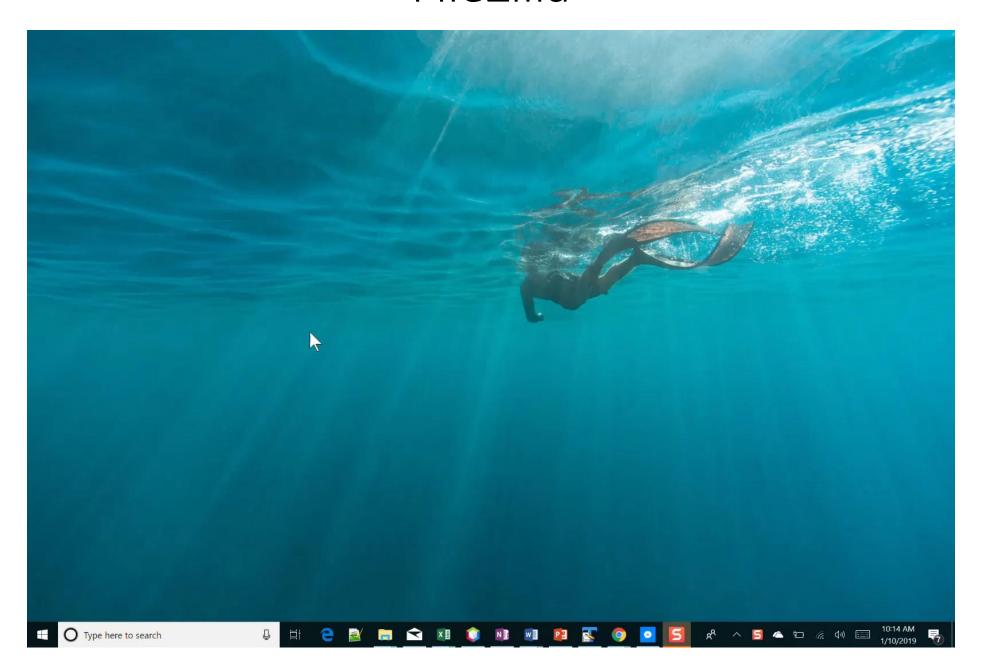
FileZilla





FileZilla





Terminal Emulator

You will need to use either a terminal emulator (like PuTTY) or ssh to interact with Omega.

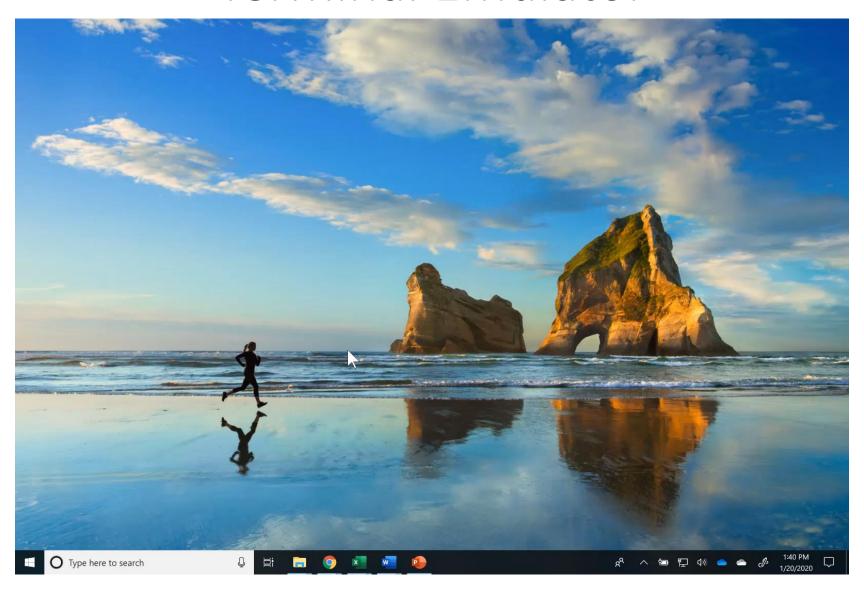
PuTTY only works for PC. It is an OIT approved emulator and can be downloaded for free

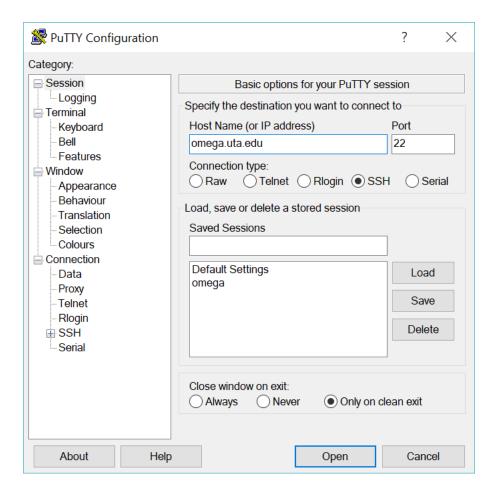
https://www.putty.org

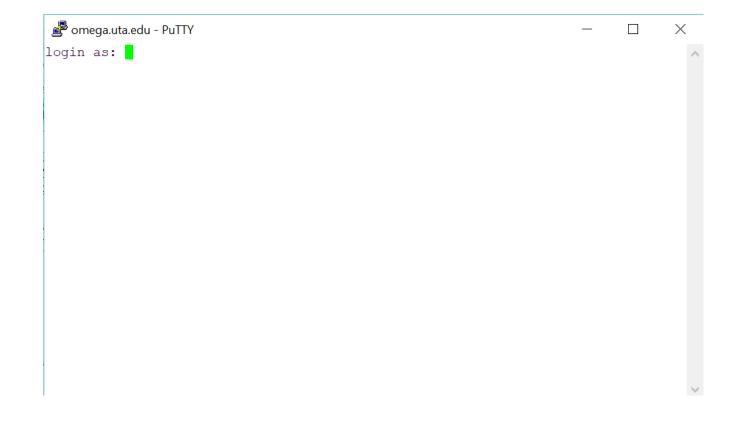
Both PC and Mac users can just use ssh (secure shell) to connect to Omega.



Terminal Emulator







omega.uta.edu - PuTTY

login as: frenchdm

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Usage of this information resource constitutes consent to all policies and procedures set forth by UT Arlington and there is no expectation of privacy except as otherwise provided by applicable privacy laws.

frenchdm@omega.uta.edu's password:

률 frenchdm@omega:~

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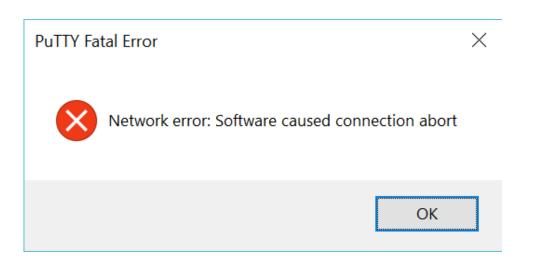
frenchdm@omega.uta.edu's password:

Last login: Thu Jan 18 18:39:09 2018 from 71-91-162-160.dhcp.gwnt.ga.charter.com



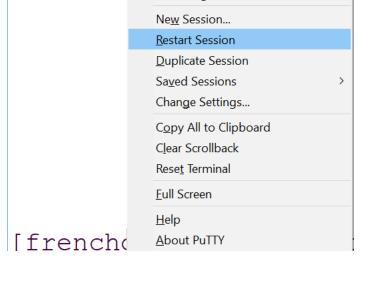


If you leave an Omega session idle for too long, it will automatically disconnect.



When this happens, just restart your current session. No no quit completely Right click on top menu bar quit completely Right click on top Move Size

Alt+F4



Minimize

Event Log

Maximize

× Close





- When you first login, you will be in your home directory which will have the same name your user name, for example, frenchdm, and it is where your personal files and subdirectories are saved.
- The **Is** command lists the contents of your current working directory.
- The Is –a command lists files that are normally hidden.
- The Is –I command lists more information about the files



- The mkdir command is used to make subdirectories in your home directory. Let's make a subdirectory called "CSE1320".
- mkdir CSE1320

```
| Frenchdm@omega~|$ ls
| OmegaTestFile.txt public_html
| frenchdm@omega~|$ mkdir CSE1320
| frenchdm@omega~|$ ls
| CSE1320 OmegaTestFile.txt public_html
| frenchdm@omega~|$ |s
| CSE1320 OmegaTestFile.txt public_html
| frenchdm@omega~|$ |
```

- The change directory command allows you to change from the current working directory to a different directory.
- cd CSE1320



cd

Returns you to your home directory

cd.

Keeps you in the current directory

cd ..

Takes you one directory back

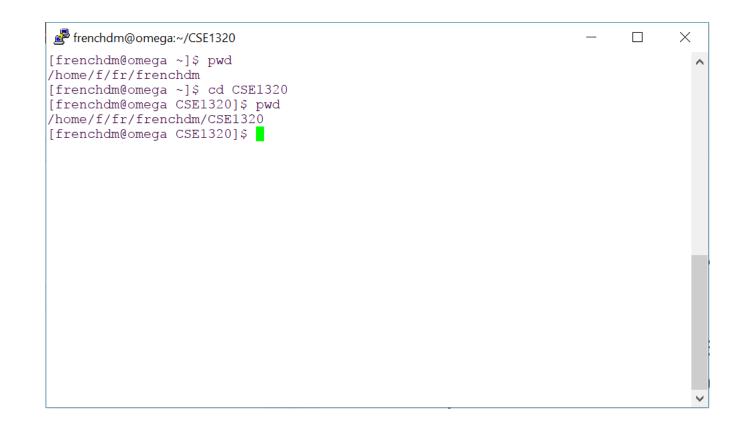
cd -

Returns you to whatever directory you were in last





The print working directory command, pwd, shows you where you are.



cp file1 file2

is the command which makes a copy of *file1* in the current working directory and calls it *file2*

I copied OmegaTestFile.txt to ThisIsACopy.txt

```
frenchdm@omega:~
[frenchdm@omega ~]$ ls
CSE1320 OmegaTestFile.txt public html
[frenchdm@omega ~]$ cp OmegaTestFile.txt ThisIsACopy.txt
[frenchdm@omega ~]$ ls
CSE1320 OmegaTestFile.txt public html ThisIsACopy.txt
[frenchdm@omega ~]$
```

mv file1 file2

is the command which moves or renames a file

I renamed ThisIsACopy.txt to MyCopyHasANewName.txt

```
🗗 frenchdm@omega:~
                                                                       [frenchdm@omega ~]$ ls
CSE1320 OmegaTestFile.txt public html ThisIsACopy.txt
[frenchdm@omega ~]$ mv ThisIsACopy.txt MyCopyHasANewName.txt
[frenchdm@omega ~]$ ls
CSE1320 MyCopyHasANewName.txt OmegaTestFile.txt public html
[frenchdm@omega ~]$
```

rm *file*

removes/deletes a file

rmdir *directory*

removes/deletes a directory

```
frenchdm@omega:~
[frenchdm@omega ~]$ ls
CSE1320 MyCopyHasANewName.txt OmegaTestFile.txt public html
[frenchdm@omega ~]$ rm MyCopyHasANewName.txt
[frenchdm@omega ~]$ ls
CSE1320 OmegaTestFile.txt public html
[frenchdm@omega ~]$ rmdir CSE1320
[frenchdm@omega ~]$ ls
OmegaTestFile.txt public html
[frenchdm@omega ~]$
```

clear

This will clear all text and leave you with the prompt at the top of the window.







cat *filename*

The command cat can be used to display the contents of a file on the screen.

more *filename*

The command more can be used to display the contents of a file on the screen.

Press the **SPACEBAR** if you want to see another page, press **ENTER** to see the next line and type **q** if you want to quit reading.

```
frenchdm@omega:~
[frenchdm@omega ~]$
```



apropos xxx

The command apropos can be used to display any command that references

ap·ro·pos

/ˌaprəˈpō/ •)

preposition

1. with reference to; concerning.







man xxx

The command man can be used to display the manual built into UNIX for that command

- use **q** to quit/exit man
- use **ENTER** to scroll line by line
- use **SPACEBAR** to scroll page by page

```
frenchdm@omega:~
[frenchdm@omega ~]$ [
```



Keyboard Shortcuts

- The arrow keys
- TAB completion
- Exclamation Point
- Ctrl-r (reverse search)
- history
- history | grep
- Ctrl-t

