

Working from home!

The general workflow your TA guides you to do in lab (and applies to your homeworks) is that you always connect (ssh) to a computer called “Turing” in a text-based window (Terminal on the Mac). What this means is that any files you create and save once connected to turing, are on that computer and not on the computer that is right in front of you. When you disconnect from turing, and connect at a later time, your files will still be there.

Any student can login to **turing.csce.uark.edu** remotely (i.e., from home or Starbucks) to work on their homeworks or finish their labs. You can do this from any Windows, Linux, or Macintosh system. To login remotely you will need to use a "secure shell program" on your local computer to create and access files on turing. The rest of this document explains how to do this. This document also shows you how to copy the files you created on another computer (turing) to the machine you are using in front of you.

(SSH) Connecting to Turing

Windows users

Windows does NOT have SSH (secure shell) client built-in, so we have to download one.

1. Download a free SSH client from UofA Information Technology Services [sshwinsecureshell-3.2.9.exe](#)
2. Run the downloaded file to install the SSH client on your local computer.
3. Follow the instructions of the installer program (hit "next" several times).
4. Double click on the "SSH Secure Shell" icon on desktop to start the SSH client.
5. Click on the "Quick Connect" icon in upper right to start a secure shell.
6. Enter the following information in dialog box:
 - Host Name = turing.csce.uark.edu
 - User Name = your UARK username
 - Port Number = 22 (the default)
 - Authentication Method = Profile Settings (the default)
 - Hit Connect
 - Enter UARK password

7. Click on "Save Settings" icon the FIRST time you login to turing so you do not have to enter the data above next time.

Mac OSX users

Mac OSX has SSH (secure shell client) built-in. This should look familiar to you as you do it in lab each week.

1. To access SSH on Mac OSX you must start up a Terminal window:
 - o Browse to Macintosh HD/Applications/Utilities
 - o Double click on Terminal
- OR
- o Click on the magnifying glass in the upper right hand corner of your screen,
- o Search for "Terminal"
2. At the command prompt, type: ssh username@turing.csce.uark.edu
 - o "username" is your UARK username used for UARK email.

Linux users

Linux has SSH (secure shell client) built-in.

1. To access SSH on Linux you must start up a Terminal window:
2. At the command prompt, type: ssh username@turing.csce.uark.edu
 - o "username" is your UARK username used for UARK email.

(SSH) Copying Files to/from Turing

Windows users

1. Download a free SSH client from UofA Information Technology Services [sshwinsecureshell-3.2.9.exe](#)
2. Run the download file to install the SSH client on your local computer.
3. Follow the instructions of the installer program (hit "next" several times).
4. Double click on the "SSH Secure File Transfer Client" icon on desktop to start the SSH client.
5. Click on the "Quick Connect" icon in upper right to start a secure shell.
6. Enter the following information in dialog box:
 - a. Host Name = [turing.csce.uark.edu](#)

- b. User Name = your UARK username
 - c. Port Number = 22 (the default)
 - d. Authentication Method = Profile Settings (the default)
 - e. Hit Connect
 - f. Enter UARK password
7. Name the profile “Turing” and click on “Add to Profile”. Next time you launch this application, you can click on Profiles->Turing instead of “Quick Connect”.
 8. You will have two columns available to you that you can drag-and-drop files between them. The left side represents the computer you are on and the right side represents the remote computer (Turing).
 9. Once you have the program source on your local computer, if you need to edit it for some reason, please use only notepad (or even better, notepad++ available for free on the internet).

Mac users

1. Download and Extract Filezilla - <https://filezilla-project.org/download.php>
2. Open Filezilla (wherever you extracted it to)
3. Enter the following information within Filezilla
Host: turing.csce.uark.edu
username: <uark-username> (for example, *sgauch*)
password: <uark-password>
port: 22
4. If prompted about unknown host key, select Ok to continue
5. If successful, Filezilla will have two columns of information.
On the left side, represents your computer and on the right side represents the remote computer (turing).
6. To copy files between the two, simply drag-and-drop the file/folder.
7. If you must edit your program source once you have it on your computer, I encourage you to use the program TextPad (not Word), or open it from the command-line (Terminal) using *nano* as we do in lab.