Connecting to the School of Computing Servers and Transferring Files

Connecting

This document will provide instructions on how to connect to the School of Computing's server.

Connect Using a Mac or Linux

Open a terminal: (Applications -> Utilities -> terminal)

If you are:

**Off Campus** – you must first connect to either access1 or access2
Type `ssh <username>@access1.cs.clemson.edu`

Access1 and access2 are temporary connections. You will need to ssh to one of the servers located in the McAdams 110 lab. You will use the command `ssh <machine name>.cs.clemson.edu` or `ssh <username>@<machine name>.cs.clemson.edu` As an example:

`ssh koala1.cs.clemson.edu` or `ssh yfeaste@koala1.cs.clemson.edu` You will also be asked to retype your password.

**On Campus** – you can log directly into one of the servers located in the McAdams 110 lab. As an example:

`ssh <username>@<machine name>.cs.clemson.edu`
Connection Using Windows

You will need to use an SSH client, such as MS Secure Shell Client or Putty. You can download an SSH client from the following: http://www.clemson.edu/ccit/software_applications/software/web_downloads.html

If you are:

**Off Campus** – you must first connect to either access1 or access2

The above is a screenshot of an SSH Secure Shell. To login, click on Quick Connect, you will get the following screen.

Next, login using access1 or access2 as the Host Name and your User Name. Once you are logged in you will need to ssh to one of the McAdams 110 servers, using `ssh <machine name>.cs.clemson.edu`. As an
example:  `ssh koala1.cs.clemson.edu` then enter your password again

**On Campus** – Use the same SSH client as above. You can log directly into one of the McAdams 110 servers bypassing the access1 or access2 gateway.

**McAdams 110 Server Names:**

<table>
<thead>
<tr>
<th>Hostnames</th>
<th>Location</th>
<th>OS</th>
<th>Architecture</th>
<th>CPU</th>
<th>Mem</th>
</tr>
</thead>
<tbody>
<tr>
<td>imp1..22</td>
<td>McAdams 110A</td>
<td>Ubuntu 14.04</td>
<td>x86_64 i7</td>
<td>8 x 3.40GHz</td>
<td>8GB</td>
</tr>
<tr>
<td>glare5..8</td>
<td>McAdams 110A</td>
<td>Mac OS X 10.8</td>
<td>x86_64 i5</td>
<td>2 x 2.50GHz</td>
<td>4GB</td>
</tr>
<tr>
<td>joey1..27</td>
<td>McAdams 110D</td>
<td>Ubuntu 14.04</td>
<td>x86_64 i7</td>
<td>8 x 3.40GHz</td>
<td>16GB</td>
</tr>
<tr>
<td>koala1..24</td>
<td>McAdams 110E</td>
<td>Ubuntu 14.04</td>
<td>x86_64 i7</td>
<td>8 x 3.60GHz</td>
<td>16GB</td>
</tr>
<tr>
<td>newton</td>
<td>n/a</td>
<td>Ubuntu 14.04</td>
<td>x86_64 Xeon</td>
<td>24 x 2.40GHz</td>
<td>96GB</td>
</tr>
</tbody>
</table>

* Off-campus SSH access: access1.cs.clemson.edu and access2.cs.clemson.edu
* General information can be found at http://www.cs.clemson.edu/help
* Questions or problems regarding Unix systems should be addressed to ithelp@clemson.edu or the friendly folks in 111 or 137 McAdams

The machines in the department that you have access to are listed above. The machines that you should use for all programming assignments are one of the 24 koala machines, one of the 27 joey machines, or one of the 22 imp machines.
**Transferring Files**

**MAC**
Sometime it is necessary to transfer files from the School of Computing servers to your local computer or visa versa. In order to accomplish this you will need to download a File Transfer Protocol (FTP) tool. There are several available FTP tools such as Fetch, FTP, and Filezilla. Download and install whichever flavor you wish. As an example, we will take a look at Fetch, shown below. Fetch can be downloaded from the following: http://www.clemson.edu/ccit/software_applications/software/web_downloads.html

FETCH

You will type in the hostname, your username, select SFTP, select encryption, and enter your password.
Navigate to your file. Highlight the file and click “Get” at the top of the page. It will download to the “Downloads” folder on your computer.

The transfer application I like is Filezilla (google to get the file download). Filezilla is cross platform, but I tend to use it only on my MAC. (no particular reason) I use the FTP client provide as part of the SSH download from the university.

First I will show you screen shows from Filezilla then the FTP client provide by the university.

Filezilla

![Filezilla interface](image)

The if you are off-campus the Host is access1.cs.clemson.edu or access2.cs.clemson.edu. On-campus you will use <machine_name>.cs.clemson.edu. Username is your Clemson username, your Clemson password and port will always be 22. Enter or click quick connect.
This is the screen you should get.

Your files are on the left and the system files are on the right. You can transfer files from the system to your laptop or from your laptop to the system. To transfer the files, first navigate to the folder you want to transfer to and from, then click on the file and simply drag and drop.
Now we will quickly take a look at the FTP client provided by the university for Windows.

Click on the Folder icon located in the top toolbar. You will get the following screen. Click on Quick connect and you will get the following:

The Host Name is access1.cs.clemson.edu (for off-campus login) or <machine_name>.cs.clemson.edu (on-campus login) the port is always 22. Click connect and you will get the following screen.
As with the Filezilla, the left side represents the files on your system and the right represents the server. Navigate to the folder you want to work with on both systems, select the files to be transferred, then drag and drop.