Week 03

ssh, grep, regexes, if, and bash scripts

Melvyn Ian Drag

February 1, 2020

Abstract

Tonight we'll look at grep a bit more, we'll learn what a regex is, youll see how if statements work in bash, we'll see a tidy way to write bash commands, and you'll use a cool tool called ssh.

$1 \quad ssh$

Let's start with the coolest thing. We'll make a remote connection to a remote pc. At my house I have a raspberry pi running.

Now connect to the pc using ssh from the command line. And poke around a bit. Class should think it's cool

Now I want you to do the same thing. To do this you need an ssh key. To get a key you open git bash, a linux terminal or a mac terminal. Type 'ssh-keygen' and then just hit yes to everything. Show the class how to do this using git bash. Then:

```
mel@laptop$ cd
mel@laptop$ pwd
/home/mel/
mel@laptop$ ls -a
.. lots of stuff including a .ssh directory
mel@laptop$ cd .ssh
mel@laptop$ ls
id_rsa id_rsa.pub
mel@laptop$ cat id_rsa.pub
A LOT OF STUFF
```

Now I want you to be able to connect to my raspberry pi

I need everyone to get me his or her id rsa.pub.

Actually have everyone email me the id rsa.pub file.

Then Im going to do some magic on my end and you'll be able to connect ot my computer. We have alot to cover today so go fast, get this done, I don't want this to take the whole class!

(Add the keys to the homeserver and then the students can connect to my raspberry pi)

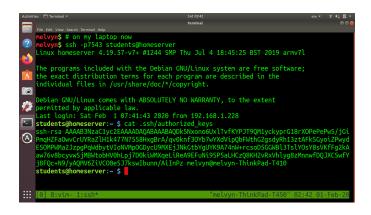


Figure 1: I need to add your ssh key to my authorized_keys file so you can connect to my raspberry pi