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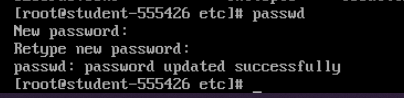
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# Secure Root Login 100%

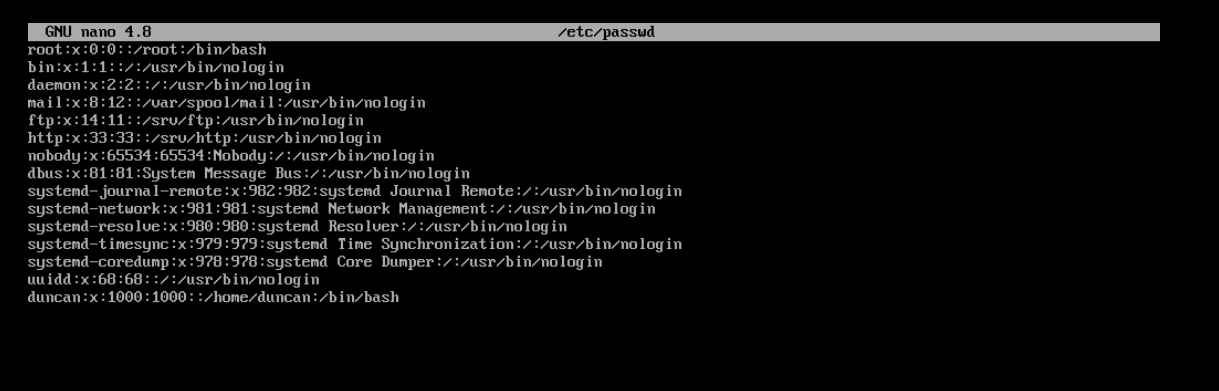
Change Root pass to not be root (Security 101)

Password: 2UFBU6JZ0j

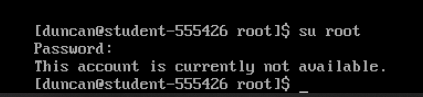
Generated using Randomkeygen.com



Disable root login using user shell





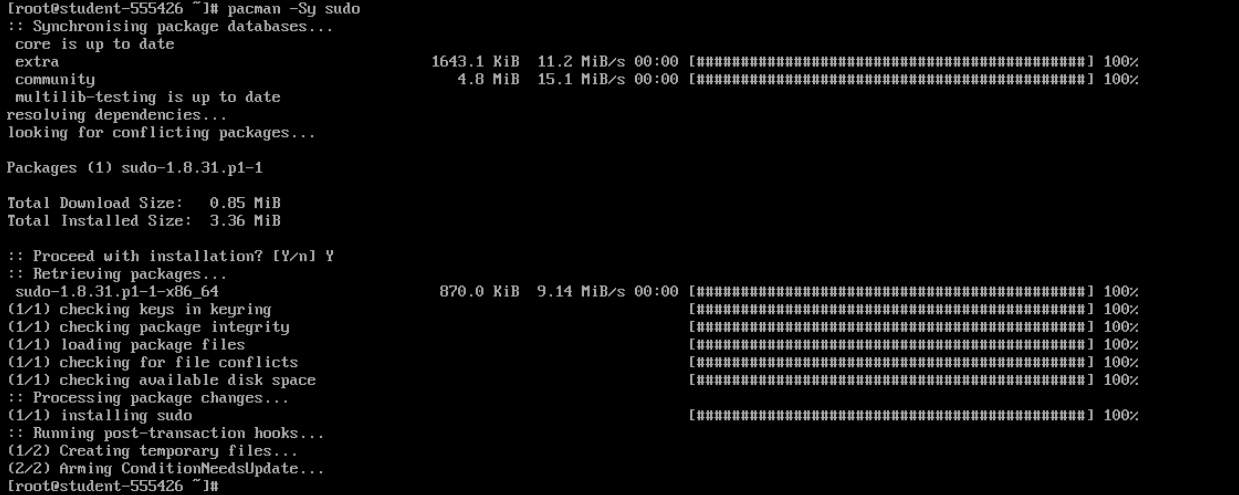


Ensure no root access through ssh



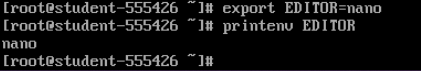
# Admin accounts

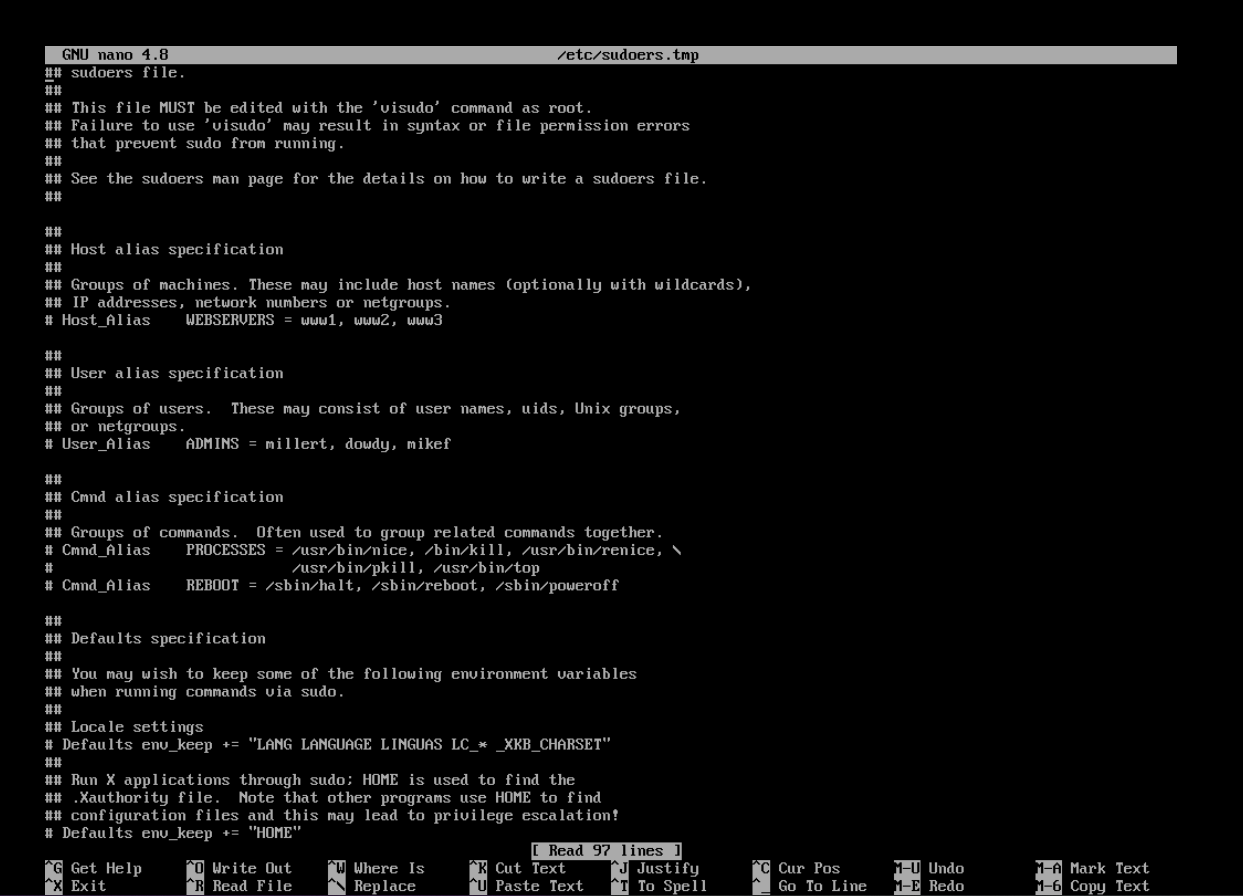
Install sudo

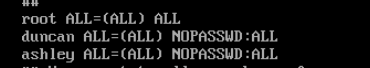




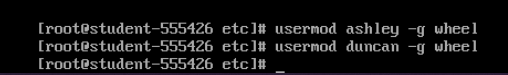


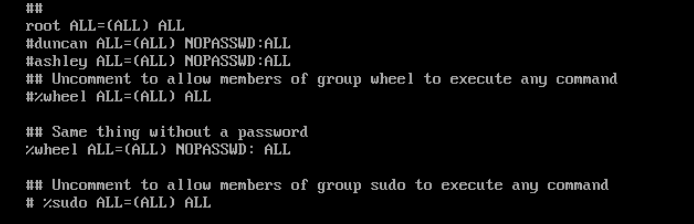






Is a way to do it however this can be done by adding both users to the wheel admin group





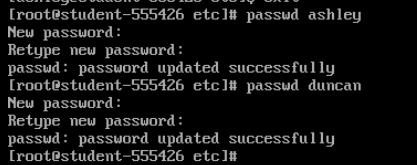




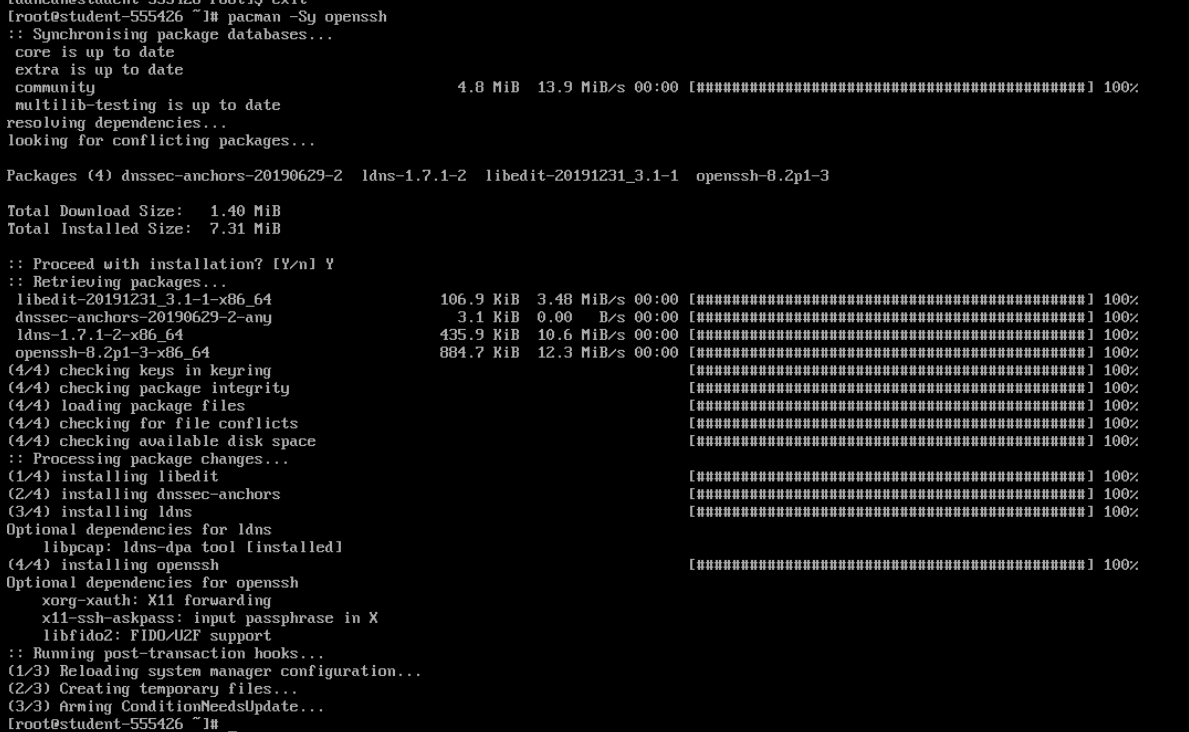
Give Ashley and Duncan Secure passwords

Ashley: UyQ3xNJTZA

Duncan: LMvsGplYwW

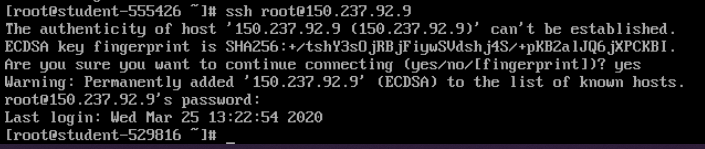


# SSH Set up

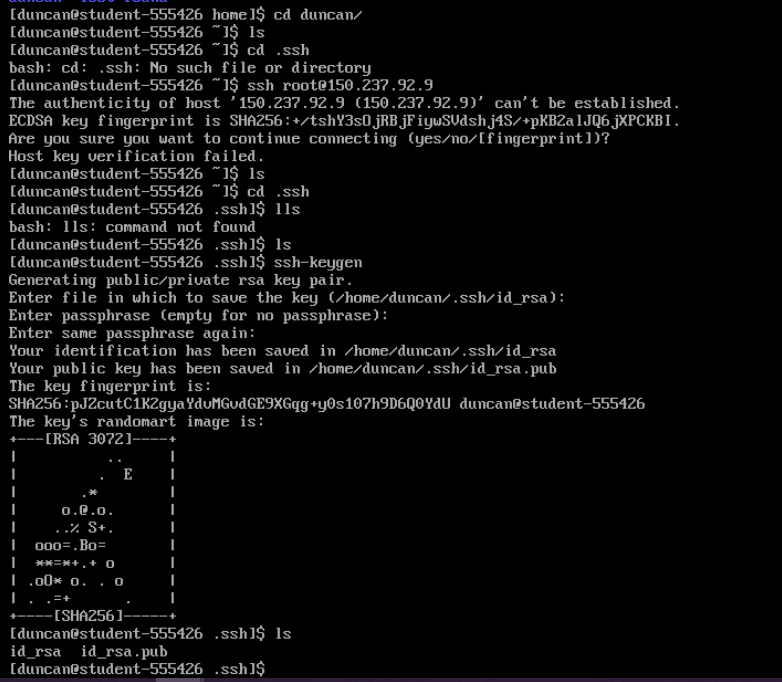




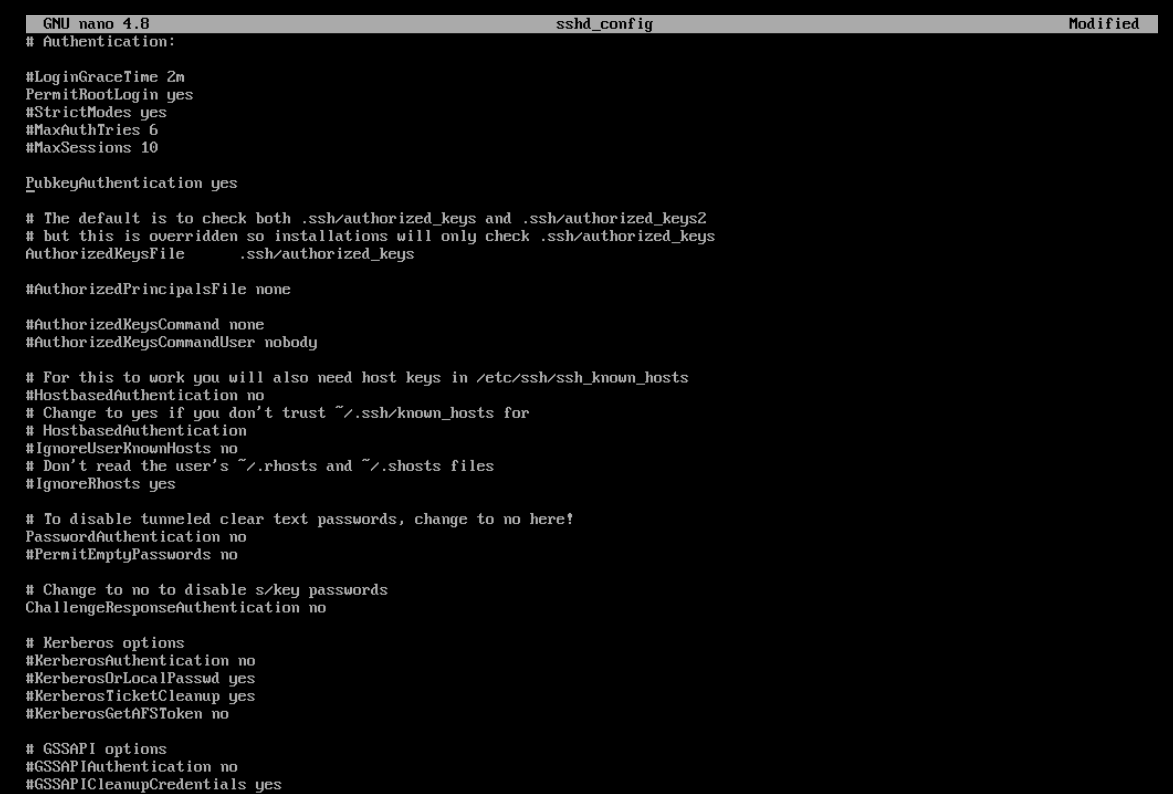
Test Connection to other students VM



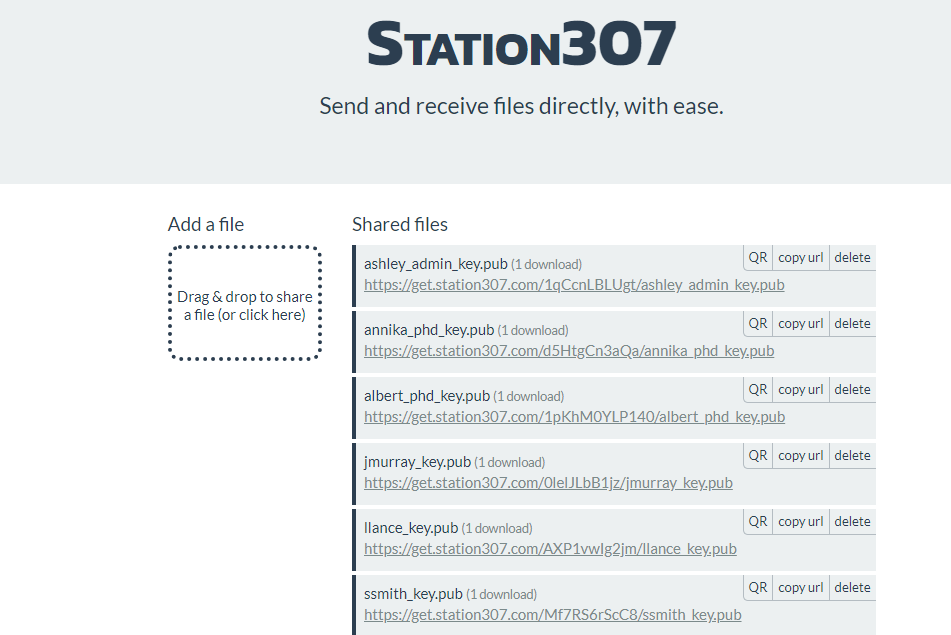
Generate Key Pair (duncan)

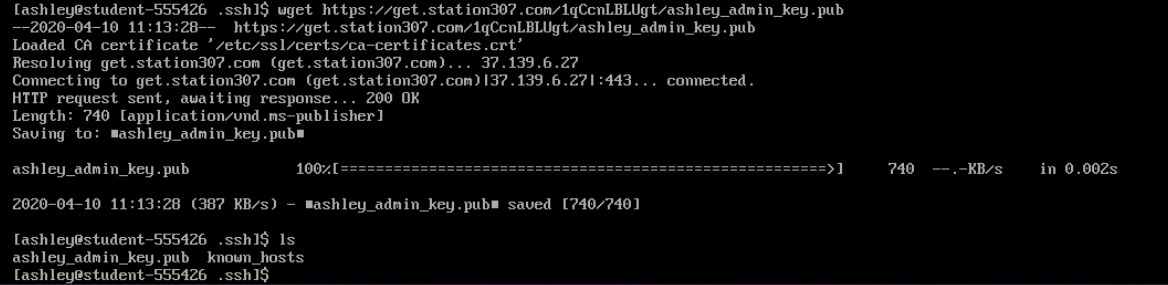


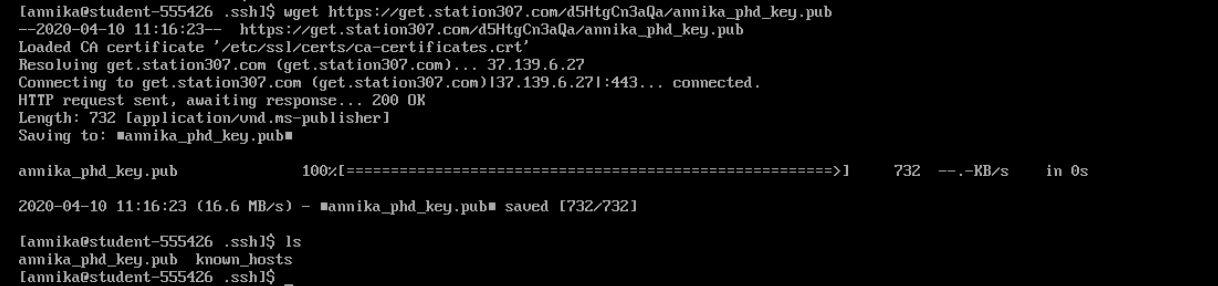
Modify SSHD Config (Enable Public Key auth)

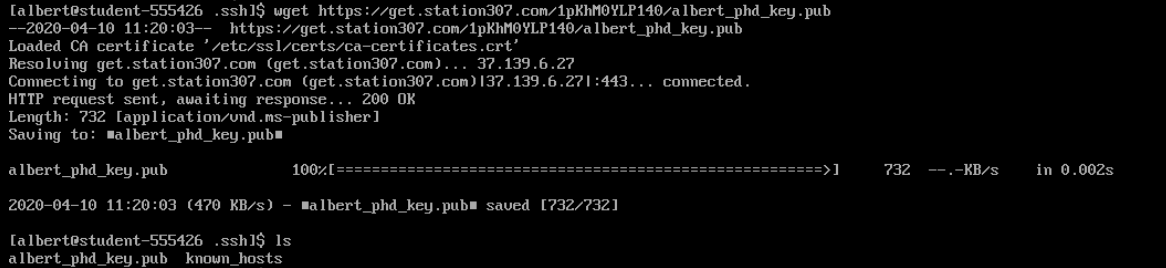


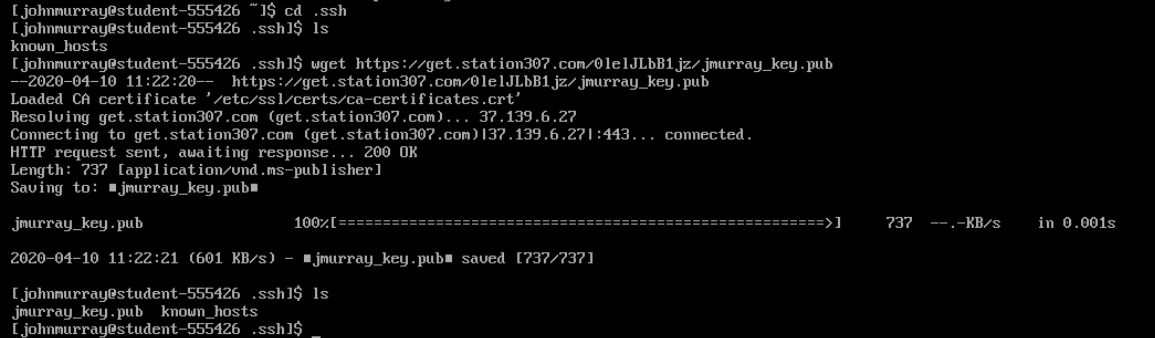
Load all user accounts with relevant public keys

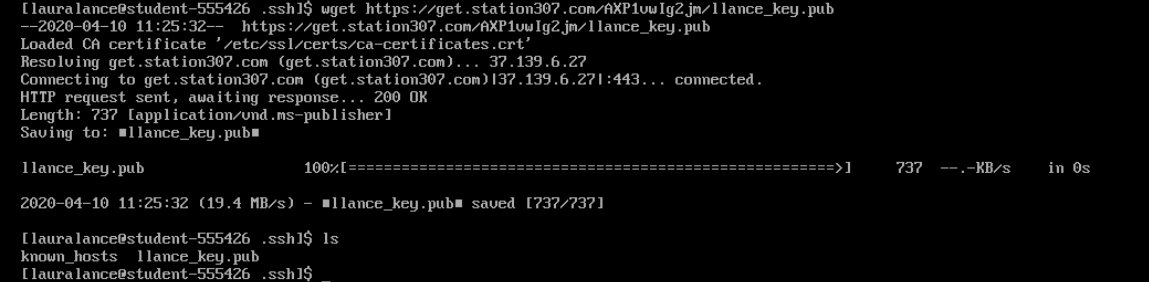


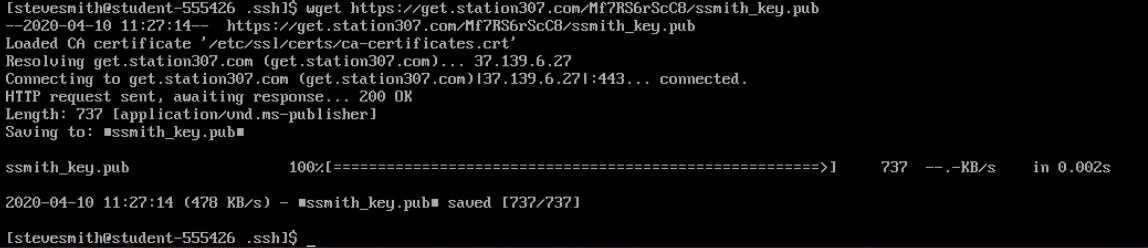










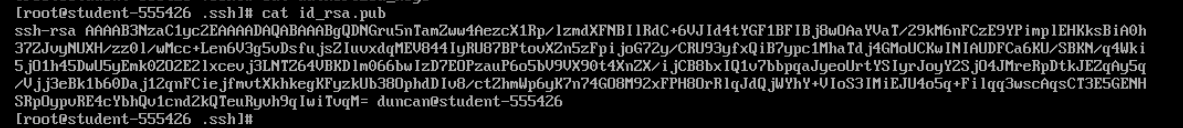


Make auth keys and add key to it





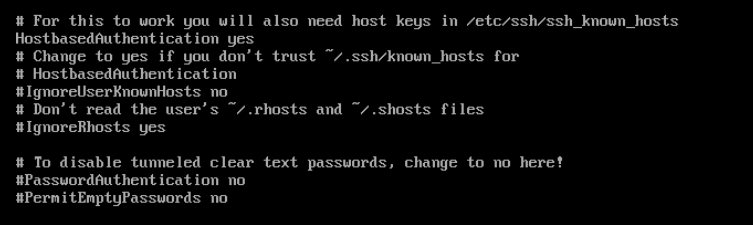
Finally, Duncans Public key



Add known host to knownhosts file for albert

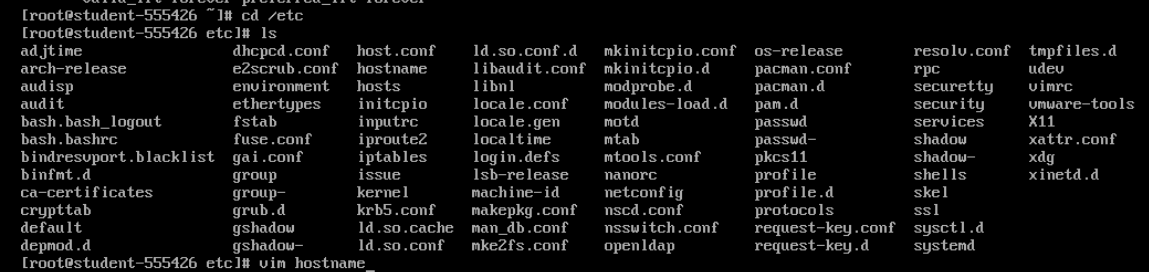


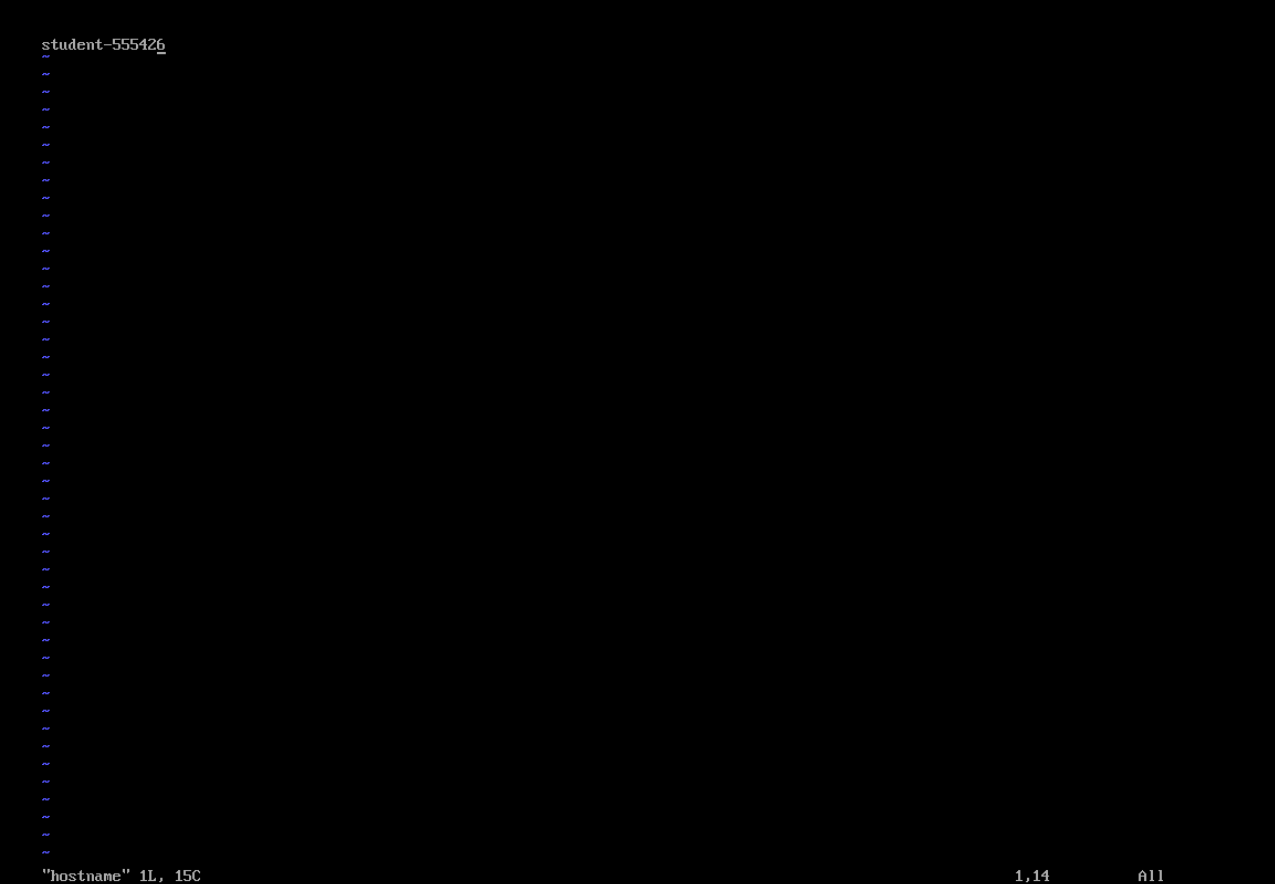
Change Sshd\_config to allow host authentication



# Internet Setup

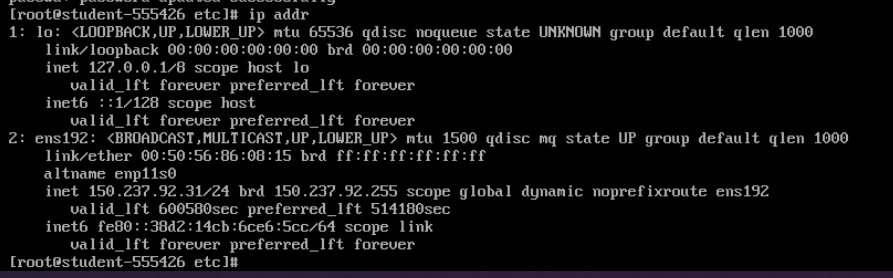
Change Hostname (due to VM requirements)





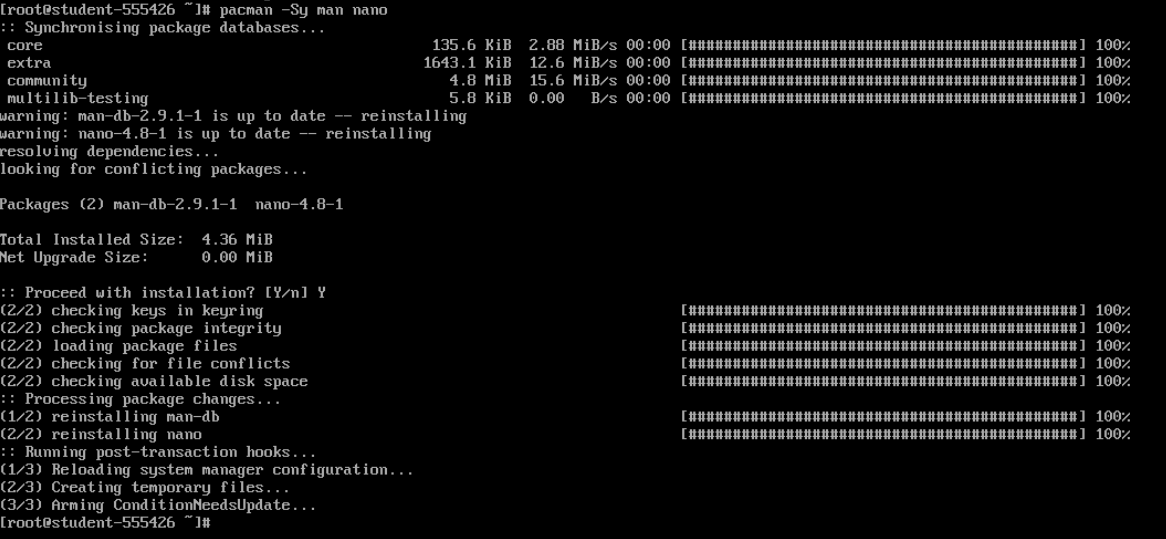


Check connection

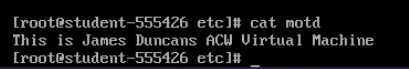


# Installs

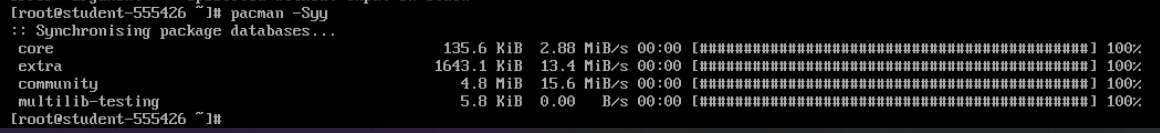
Install Nano

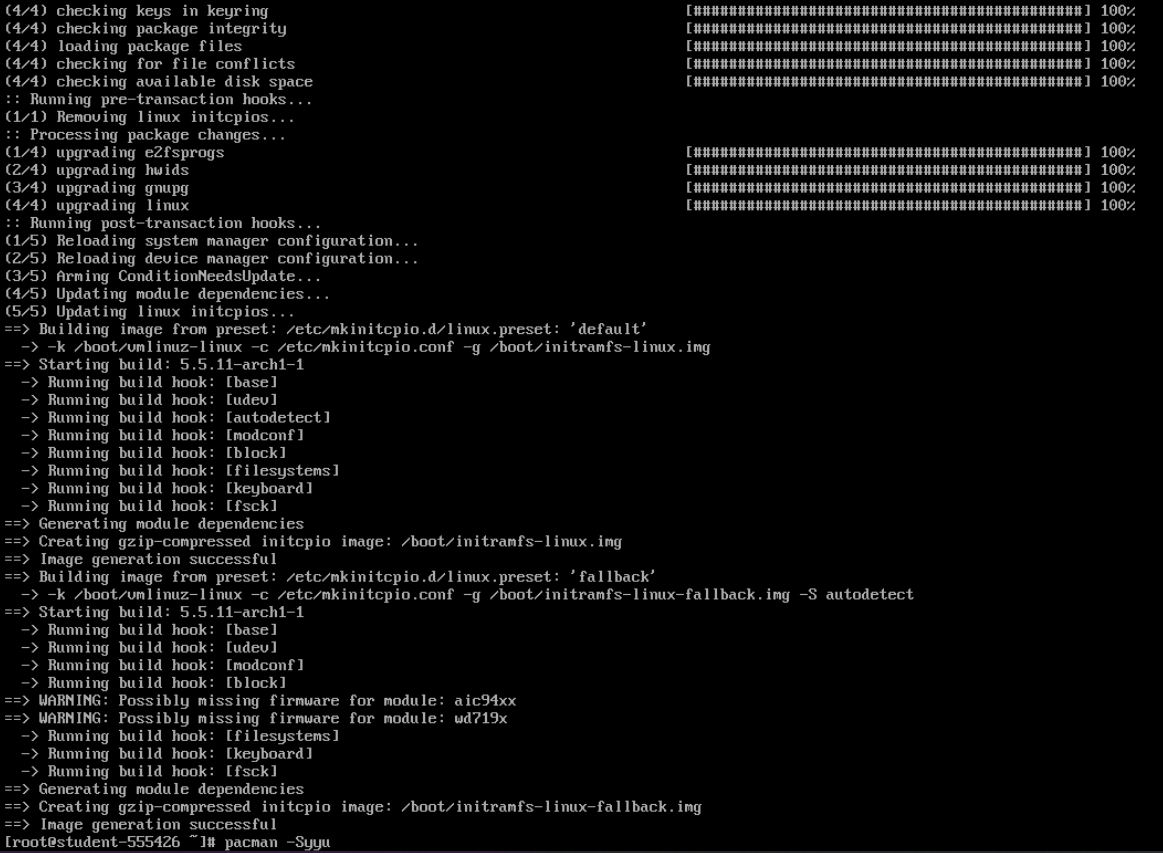


Test Nano by changing motd file

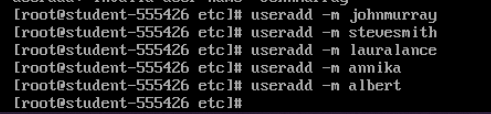


Perform System upgrade





# Create Users



Change passwords (Non admins (less important))

Passwords are all their first names, on first login they should be told to change their passwords

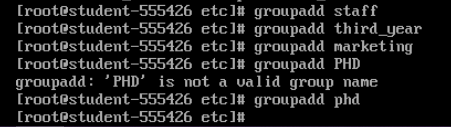
# User Groups

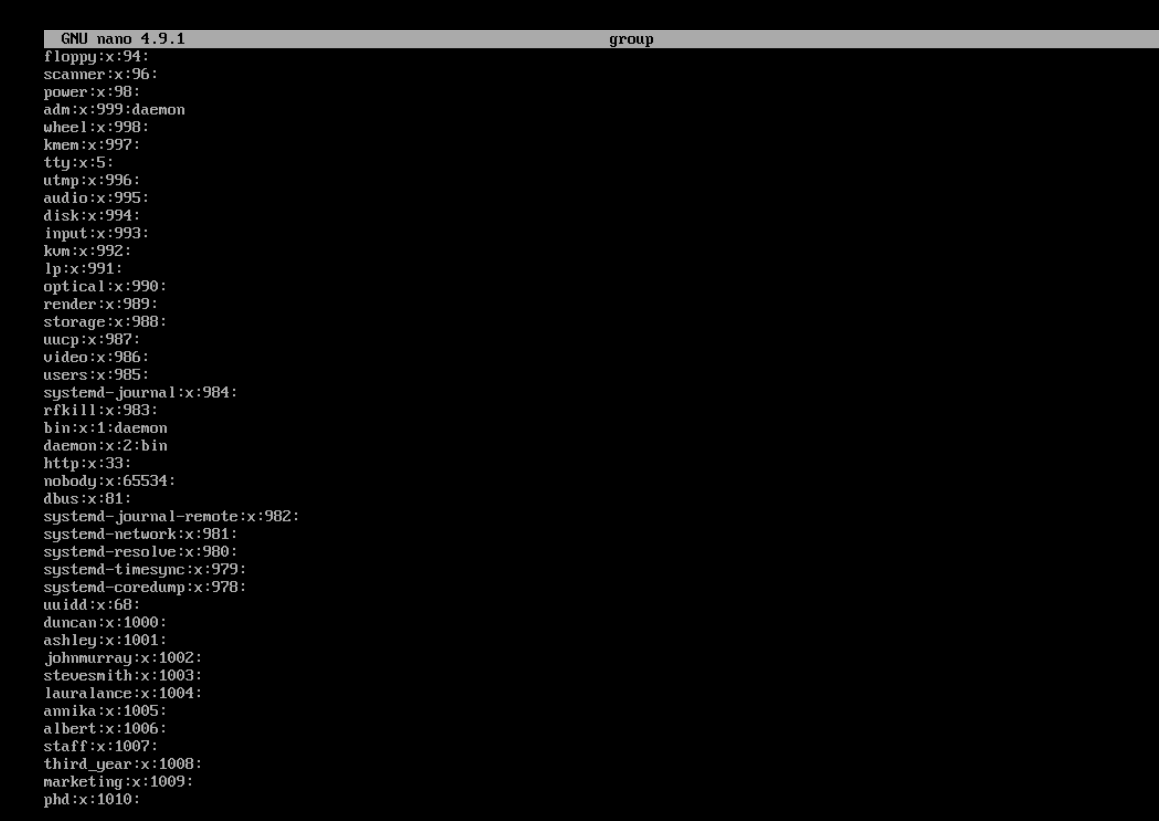
John Murray : Staff Group

Steve Smith : ThirdYear Group

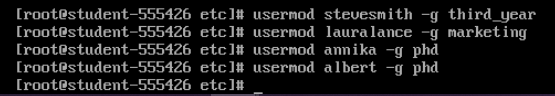
Laura Lance: Marketing Group

Annika, Albert: PHD Group

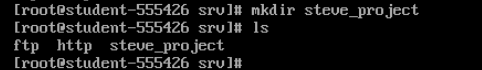


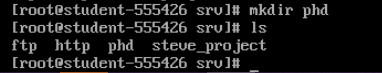




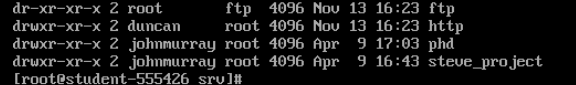


# Folders and Permissions





Folder owners



Set permissions for folders

http owner = root

http Group access = Marketing

Everyone Else (No access)

Octal for http

RWX, RWX,\_\_\_

421, 420 000

770

Steves folder owner = John

Steves group access = ThirdYear

Octal for Steves Folder

RWX,R\_\_,\_\_\_

421 4\_1,\_\_\_

750

PHD folder

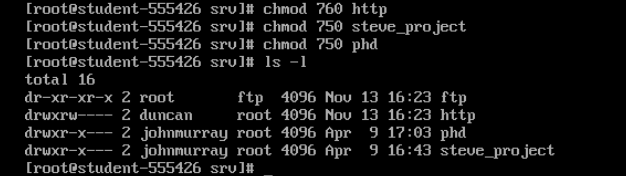
PHD Folder owner = John

PHD Folder Group Access = PHD

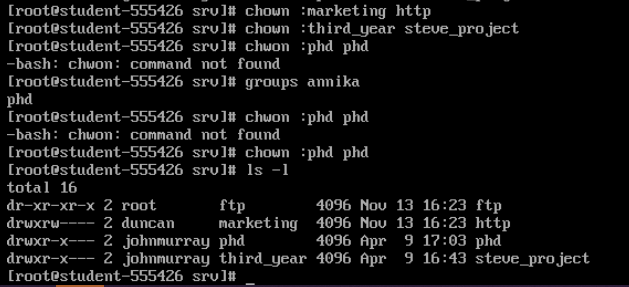
Octal for PHD Folder

RWX, R\_X,\_\_\_

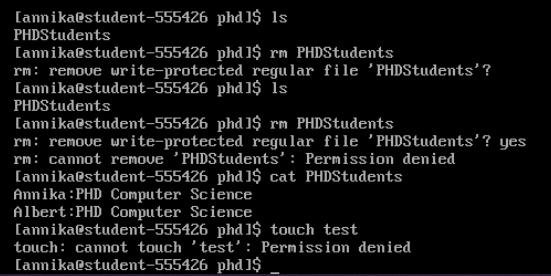
750

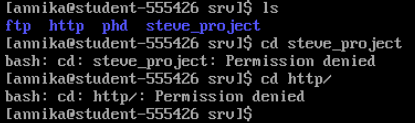


Change group owner

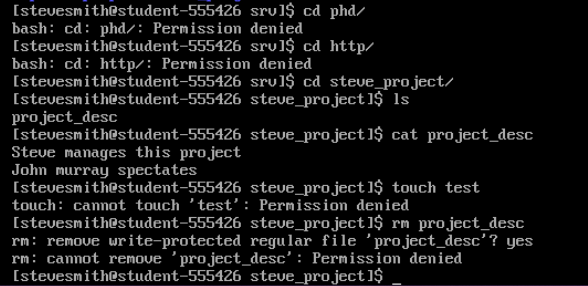


Annika Tests





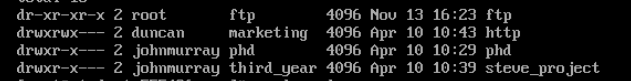
Steve Tests

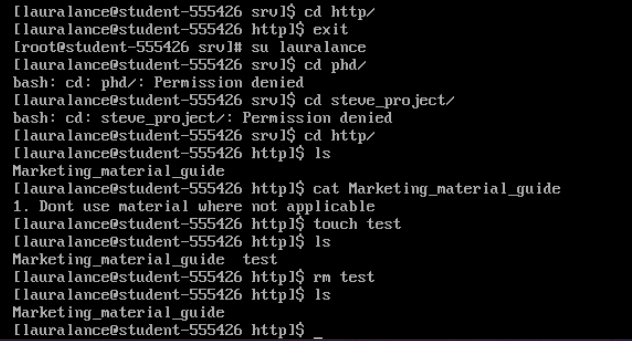


Laura lance tests

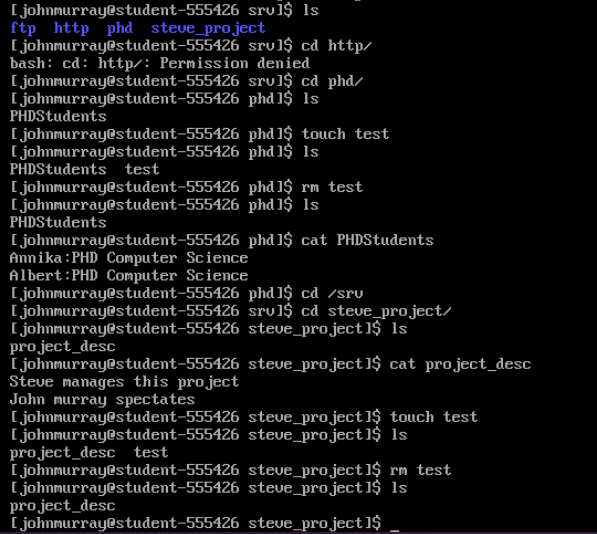
Could not access http

Gave execute permissions to group





John tests



# Research Documents

