Messing With Linux

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Deliverables:

- 1. Five common dirs and their purpose
 - a. Home dir | /home
 - i. Holds users home directories
 - b. Root Dir | /
 - i. Holds literally everything
 - c. Dev dir | /dev
 - i. Holds device files
 - d. Sbin Dir | /sbin
 - Holds system binaries
 - e. Root dir | /root
 - i. Roots home directory
- 2. The command would be cd /etc/sysconfig/network-scripts/

```
dhcp01-SYS-255-03-benjamin.weatherill
                                                      Enforce US Keyboard Layout | View Fullscreen | Send Ctrl+Alt+Delet
ben-loc@dhcp@1-benjamin ~1$ cd /etc/sysconfig/network-scripts/
ben-loc@dhcp01-benjamin network-scripts]$ ls
fcfg-ens192 ifdown-ipv6 ifdown-Team
fcfg-lo ifdown-isdn ifdown-TeamPort
fdown ifdown-post ifdown-tunnel
                                                          ifup-eth
                                                                         ifup-post
                                                                                             ifup-tunnel
                                                          ifup-ippp
ifup-ip√6
                                                                         ifup-ppp
ifup-routes
                                                                                             ifup-wireless
                                                                                             init.ipv6-global
fdown-bnep
                 ifdown-ppp
                                    ifup
                                                          ifup-isdn
                                                                         ifup-sit
                                                                                            network-functions
                                                                         ifup-Team
fdown-eth
                 if down-routes
                                    ifup-aliases
                                                          ifup-plip
                                                                                            network-functions-ipv6
                 ifdown-sit
                                                          ifup-plusb
                                                                         ifup-TeamPort
fdown-ippp
                                    ifup-bnep
ben-loc@dhcp01-benjamin network-scripts]$
```

3. Mkdir will create a directory and cp will copy from one place to another

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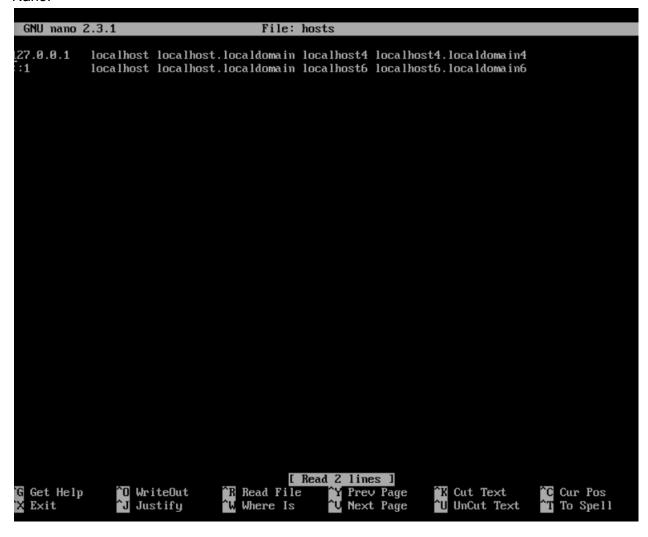
Enforce US Keyboard

```
ben-loc@dhcp01-benjamin ~1$ mkdir sys255
ben-loc@dhcp01-benjamin ~1$ cd sys255/
ben-loc@dhcp01-benjamin sys2551$ mkdir assignments
ben-loc@dhcp01-benjamin sys2551$ cd assignments/
ben-loc@dhcp01-benjamin assignments1$ cp /etc/hosts
cp: missing destination file operand after '/etc/hosts'
ry 'cp --help' for more information.
ben-loc@dhcp01-benjamin assignments1$ cp /etc/hosts .
ben-loc@dhcp01-benjamin assignments1$ ls
osts
ben-loc@dhcp01-benjamin assignments1$ ls -la
cotal 4
lrwxrwxr-x. 2 ben-loc ben-loc 19 Sep 18 13:23 .
lrwxrwxr-x. 3 ben-loc ben-loc 25 Sep 18 13:23 hosts
ben-loc@dhcp01-benjamin assignments1$
```

If I were to do this all from my home directory I would just use longer paths. For the cp: cp /etc/hosts ~/sys255/assignments/

4. The two major text editors in linux are vi(m) and nano

Nano:



Vi(m):

```
127.8.8.1 localhost localhost.localdomain localhost4 localhost4.localdomain4 localhost localhost localhost.localdomain localhost6.localdomain6
```

5. /etc/passwd holds a list of user accounts

```
[ben-loc@dhcp01-benjamin assignments]$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
tp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:999:998:User for polkitd:/:/sbin/nologin
.
libstoragemgmt:x:998:997:daemon account for libstoragemgmt:/var/run/lsm:/sbin/nologin
abrt:x:173:173::/etc/abrt:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
postfix:x:89:89::/var/spool/postfix:/sbin/nologin
chrony:x:997:995::/var/lib/chrony:/sbin/nologin
ntp:x:38:38::/etc/ntp:/sbin/nologin
tcpdump:x:72:72::/:/sbin/nologin
ben-loc:x:1000:1000::/home/ben-loc:/bin/bash
[ben-loc@dhcp01-benjamin assignments]$
```

6. The command would be "adduser -p password champlain"

```
[ben-loc@dhcp01-benjamin assignments]$ sudo adduser -p password champlain [sudo] password for ben-loc:
Sorry, try again.
[sudo] password for ben-loc:
[ben-loc@dhcp01-benjamin assignments]$ ls /home
ben-loc champlain
[ben-loc@dhcp01-benjamin assignments]$ _
```

7. GREP! An amazing command.

```
[ben-loc@dhcp01-benjamin ~]$ cat /etc/passwd | grep ben-loc
ben-loc:x:1000:1000::/home/<mark>ben-loc</mark>:/bin/bash
[ben-loc@dhcp01-benjamin ~]$ _
```

- 8. You start with the NetworkManager (this will need to be installed)
 - a. To start the "qui" run the command sudo nmtui
 - b. Select Edit a connection
 - c. Select Edit... on the adapter you want to edit
 - d. Edit the IPv4 Configuration with your static IP and default gateway
 - e. Once done, Select OK
 - f. Select Back
 - g. Select Quit
 - h. Run the command sudo systemctl restart network

- i. https://github.com/benjamin-weatherill/SYS255/wiki/Lab-03-%E2%80%90-Linux-Configuration
- 9. The shell in Linux is your command line interface. In this case we are using bash.
- 10. The command su will switch user but not start a new shell for them. sudo -i Will start a new shell in the root home directory. If you use the command su -, this will do the same thing as sudo -i.

11. To get more information about a command you can use the man command.

NAME

tee - read from standard input and write to standard output and files

SYNOPSIS

tee [OPTION]... [FILE]...

DESCRIPTION

Copy standard input to each FILE, and also to standard output.

-a, --append

append to the given FILEs, do not overwrite

-i, --ignore-interrupts

ignore interrupt signals

--help display this help and exit

--version

output version information and exit

If a FILE is -, copy again to standard output.

GNU coreutils online help: http://www.gnu.org/software/coreutils/ Report tee translation bugs to http://translationproject.org/team/)

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Manual page tee(1) line 1 (press h for help or q to quit)

ben-loc@dhcp01-benjamin ~1\$ man tee_

12. w

[ben-loc@dhcp01-benjamin ~]\$ w

13:50:25 up 6 days, 23:36, 2 users, load average: 0.00, 0.01, 0.05

JSER TTY FROM LOGING IDLE JCPU PCPU WHAT

root tty1 11Sep23 1.00s 3.36s 2.93s ssh localhost

pen-loc pts/0 localhost 11Sep23 1.00s 0.60s 0.09s w

[ben-loc@dhcp01-benjamin ~]\$

Or who

[ben-loc@dhcp01-benjamin ~1\$ who

root tty1 2023-09-11 14:16

ben-loc pts/0 2023-09-11 14:42 (localhost)