Jerrad Monagan

COP4640 Introduction to OS

Project 3

3/6/17

[redacted n number and ifconfig for privacy]

**How I Achieved the results:**

1. Logged into server remotely and system was displayed
2. Ran command uptime
3. Ran df -h for the human readable disk usage
4. Ran ifconfig from the command line
5. Ran command sudo adduser n and followed prompts from the system
6. Ran the command sudo usermod -aG sudo n to append my n# to the usergroup of sudoers
7. Ran the command sudo adduser monagan and followed prompts from the system
8. Ran the command addgroup cop4640

Then ran

sudo usermod -aG cop4640 monagan

to add my last user to the new group

1. Changed .bashrc in home file of user monagan to read PS1="\u:command>"
2. Used crontab -e to open cron editor

Created job 0 \*/3 \* \* \* LOGNAME=n ~/./daily.sh to run every 3 hours to run a script that appends the date command and last command for history of logins to be added to the file dailyCron.txt (cat of script shown below)

1. Ran apt list to find the yum installer (not installed)

Ran sudo apt install yum to install yum

Ran apt list again now [installed]

**Actual Results:**

1. Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-57-generic x86\_64)
2. up 48 days
3. student@UbuntuSandbox:~$ df -h

Filesystem Size Used Avail Use Mounted on

udev 477M 0 477M 0% /dev

tmpfs 100M 11M 89M 11% /run

/dev/mapper/ 18G 3.6G 13G 22% /

UbuntuSandbox--vg-root

tmpfs 497M 0 497M 0% /dev/shm

tmpfs 5.0M 0 5.0M 0% /run/lock

tmpfs 497M 0 497M0% /sys/fs/cgroup

/dev/sda1 472M 344M 105M 77% /boot

tmpfs 100M 0 100M 0% /run/user/1002

6. student@UbuntuSandbox:~$ ifconfig

[redacted]

7. student@UbuntuSandbox:~$ cat /etc/passwd

root:x:0:0:root:/root:/bin/bash

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

bin:x:2:2:bin:/bin:/usr/sbin/nologin

sys:x:3:3:sys:/dev:/usr/sbin/nologin

sync:x:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/usr/sbin/nologin

man:x:6:12:man:/var/cache/man:/usr/sbin/nologin

lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin

mail:x:8:8:mail:/var/mail:/usr/sbin/nologin

news:x:9:9:news:/var/spool/news:/usr/sbin/nologin

uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin

proxy:x:13:13:proxy:/bin:/usr/sbin/nologin

www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin

backup:x:34:34:backup:/var/backups:/usr/sbin/nologin

list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin

irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin

gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin

nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin

systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false

systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false

systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false

systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false

syslog:x:104:108::/home/syslog:/bin/false

\_apt:x:105:65534::/nonexistent:/bin/false

lxd:x:106:65534::/var/lib/lxd/:/bin/false

messagebus:x:107:111::/var/run/dbus:/bin/false

uuidd:x:108:112::/run/uuidd:/bin/false

dnsmasq:x:109:65534:dnsmasq,,,:/var/lib/misc:/bin/false

sshd:x:110:65534::/var/run/sshd:/usr/sbin/nologin

cislocal:x:1000:1000:cislocal,,,:/home/cislocal:/bin/bash

student:x:1002:1002:,,,:/home/student:/bin/bash

n:x:1001:1001:jerrad monagan,,,:/home/n:/bin/bash

8. student@UbuntuSandbox:~$ cat /etc/group

root:x:0:

daemon:x:1:

bin:x:2:

sys:x:3:

adm:x:4:syslog,cislocal

tty:x:5:

disk:x:6:

lp:x:7:

mail:x:8:

news:x:9:

uucp:x:10:

man:x:12:

proxy:x:13:

kmem:x:15:

dialout:x:20:

fax:x:21:

voice:x:22:

cdrom:x:24:cislocal

floppy:x:25:

tape:x:26:

sudo:x:27:cislocal,student,n

audio:x:29:

dip:x:30:cislocal

www-data:x:33:

backup:x:34:

operator:x:37:

list:x:38:

irc:x:39:

src:x:40:

gnats:x:41:

shadow:x:42:

utmp:x:43:

video:x:44:

sasl:x:45:

plugdev:x:46:cislocal

staff:x:50:

games:x:60:

users:x:100:

nogroup:x:65534:

systemd-journal:x:101:

systemd-timesync:x:102:

systemd-network:x:103:

systemd-resolve:x:104:

systemd-bus-proxy:x:105:

input:x:106:

crontab:x:107:

syslog:x:108:

netdev:x:109:

lxd:x:110:cislocal

messagebus:x:111:

uuidd:x:112:

mlocate:x:113:

ssh:x:114:

cislocal:x:1000:

lpadmin:x:115:cislocal

sambashare:x:116:cislocal

student:x:1002:

n:x:1001:n

9.student@UbuntuSandbox:~$ cat /etc/passwd

root:x:0:0:root:/root:/bin/bash

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

bin:x:2:2:bin:/bin:/usr/sbin/nologin

sys:x:3:3:sys:/dev:/usr/sbin/nologin

sync:x:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/usr/sbin/nologin

man:x:6:12:man:/var/cache/man:/usr/sbin/nologin

lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin

mail:x:8:8:mail:/var/mail:/usr/sbin/nologin

news:x:9:9:news:/var/spool/news:/usr/sbin/nologin

uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin

proxy:x:13:13:proxy:/bin:/usr/sbin/nologin

www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin

backup:x:34:34:backup:/var/backups:/usr/sbin/nologin

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systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false

systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false

systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false

syslog:x:104:108::/home/syslog:/bin/false

\_apt:x:105:65534::/nonexistent:/bin/false

lxd:x:106:65534::/var/lib/lxd/:/bin/false

messagebus:x:107:111::/var/run/dbus:/bin/false

uuidd:x:108:112::/run/uuidd:/bin/false

dnsmasq:x:109:65534:dnsmasq,,,:/var/lib/misc:/bin/false

sshd:x:110:65534::/var/run/sshd:/usr/sbin/nologin

cislocal:x:1000:1000:cislocal,,,:/home/cislocal:/bin/bash

student:x:1002:1002:,,,:/home/student:/bin/bash

n:x:1001:1001:Jerrad Monagan,,,:/home/n:/bin/bash

monagan:x:1003:1003:Jerrad Monagan,,,:/home/monagan:/bin/bash

10. student@UbuntuSandbox:~$ cat /etc/group

root:x:0:

daemon:x:1:

bin:x:2:

sys:x:3:

adm:x:4:syslog,cislocal

tty:x:5:

disk:x:6:

lp:x:7:

mail:x:8:

news:x:9:

uucp:x:10:

man:x:12:

proxy:x:13:

kmem:x:15:

dialout:x:20:

fax:x:21:

voice:x:22:

cdrom:x:24:cislocal

floppy:x:25:

tape:x:26:

sudo:x:27:cislocal,student,n

audio:x:29:

dip:x:30:cislocal

www-data:x:33:

backup:x:34:

operator:x:37:

list:x:38:

irc:x:39:

src:x:40:

gnats:x:41:

shadow:x:42:

utmp:x:43:

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sasl:x:45:

plugdev:x:46:cislocal

staff:x:50:

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users:x:100:

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systemd-journal:x:101:

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systemd-network:x:103:

systemd-resolve:x:104:

systemd-bus-proxy:x:105:

input:x:106:

crontab:x:107:

syslog:x:108:

netdev:x:109:

lxd:x:110:cislocal

messagebus:x:111:

uuidd:x:112:

mlocate:x:113:

ssh:x:114:

cislocal:x:1000:

lpadmin:x:115:cislocal

sambashare:x:116:cislocal

student:x:1002:

n:x:1001:n

monagan:x:1003:

cop4640:x:1004:monagan

11. monagan:command>cat .bashrc

PS1="\u:command>"

12. n:command>cat daily.sh

#! /bin/bash

date >> dailyCron.txt

last >> dailyCron.txt

n:command>crontab -l

# Edit this file to introduce tasks to be run by cron.

#

# Each task to run has to be defined through a single line

# indicating with different fields when the task will be run

# and what command to run for the task

#

# To define the time you can provide concrete values for

# minute (m), hour (h), day of month (dom), month (mon),

# and day of week (dow) or use '\*' in these fields (for 'any').#

# Notice that tasks will be started based on the cron's system

# daemon's notion of time and timezones.

#

# Output of the crontab jobs (including errors) is sent through

# email to the user the crontab file belongs to (unless redirected).

#

# For example, you can run a backup of all your user accounts

# at 5 a.m every week with:

# 0 5 \* \* 1 tar -zcf /var/backups/home.tgz /home/

#

# For more information see the manual pages of crontab(5) and cron(8)

#

# m h dom mon dow command

0 0 \* \* 1-7 LOGNAME=n last >> ~/cronlog.txt

0 \*/12 \* \* \* LOGNAME=n ~/./daily.sh

13. n:command>apt list

Non pertinent info redacted

yum/xenial,xenial,now 3.4.3-3 all

n:command>sudo apt install yum

(outputted a list of files installing associated with yum)

n:command>apt list

Non pertinent info redacted

yum/xenial,xenial,now 3.4.3-3 all [installed]