

FACULTÉ DES SCIENCES ET DES TECHNOLOGIES

(FST)

Troisieme Annee

RAPPORT

Sur le travail de Laboratoire #05

COURS

Linux

PROFESSEUR

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PREPARE PAR:

Peterson CHERY

SESSION

I

29/11/2024

2) Creation deux utilisateurs peter et peterson

```
cherypeterson88@penguin:~$ sudo adduser peter
Adding user `peter' ...
Adding new group `peter' (1003) ...
Adding new user `peter' (1003) with group `peter (1003)' ...
Creating home directory `/home/peter' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for peter
Enter the new value, or press ENTER for the default
    Full Name []: peter
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
Adding new user `peter' to supplemental / extra groups `users' ...
Adding user `peter' to group `users' ...
cherypeterson88@penguin:~$ sudo adduser peterson
Adding user `peterson' ...
Adding new group `peterson' (1004) ...
Adding new user `peterson' (1004) with group `peterson (1004)' ...
Creating home directory `/home/peterson' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for peterson
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
```

Verifier

```
cherypeterson88@penguin:~$ cat /etc/passwd | grep peter
cherypeterson88:x:1000:1000:cherypeterson88:/home/cherypeterson88:/bin/bash
peter:x:1003:1003:peter,,,:/home/peter:/bin/bash
peterson:x:1004:1004:,,,:/home/peterson:/bin/bash
cherypeterson88@penguin:~$
```

Changez les mots de pass

```
cherypeterson88@penguin:~$ sudo passwd peter
New password:
Retype new password:
passwd: password updated successfully
cherypeterson88@penguin:~$ sudo passwd peterson
New password:
Retype new password:
passwd: password updated successfully
cherypeterson88@penguin:~$
```

Supprimer les utilisateur puis les verifiers

```
cherypeterson88@penguin:~$ sudo deluser --remove-home peter
deluser: The user `peter' does not exist.
cherypeterson88@penguin:~$ sudo deluser --remove-home peterson
deluser: The user `peterson' does not exist.
cherypeterson88@penguin:~$ cat /etc/passwd | grep peterson
cherypeterson88:x:1000:1000:cherypeterson88:/home/cherypeterson88:/bin/bash
cherypeterson88@penguin:~$ cat /etc/passwd | grep peter
cherypeterson88:x:1000:1000:cherypeterson88:/home/cherypeterson88:/bin/bash
cherypeterson88@penguin:~$
```

3) Creation des groupes

```
cherypeterson88@penguin:~$ sudo addgroup petergroup
Adding group `petergroup' (GID 1003) ...
Done.
cherypeterson88@penguin:~$ sudo addgroup petersongroup
Adding group `petersongroup' (GID 1004) ...
Done.
cherypeterson88@penguin:~$
```

Ajout des utilisateurs

```
cherypeterson88@penguin:~$ sudo addgroup petersongroup
Adding group `petersongroup' (GID 1004) ...
Done.
cherypeterson88@penguin:~$ sudo adduser peter
Adding user `peter' ...
Adding new group `peter' (1005) ...
Adding new user `peter' (1005) with group `peter (1005)' ...
adduser: The home directory `/home/peter' already exists. Not touching this directory.
adduser: Warning: The home directory `/home/peter' does not belong to the user you are currently creating.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for peter
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
Adding new user `peter' to supplemental / extra groups `users' ...
Adding user `peter' to group `users' ...
cherypeterson88@penguin:~$ sudo usermod -a -G petergroup peter
cherypeterson88@penguin:~$ group peter
bash: group: command not found
cherypeterson88@penguin:~$ petergroup
bash: petergroup: command not found
cherypeterson88@penguin:~$ groups peter
peter : peter users petergroup
cherypeterson88@penguin:~$
```

Suppression des groupes et des utilisateur et les verifiers

```
cherypeterson88@penguin:~$ sudo deluser --remove-home peter
Looking for files to backup/remove ...
Removing files ...
deluser: `/usr/bin/crontab' not executed. Skipping crontab removal. Package `cron'
required.
Removing user `peter' ...
Done.
cherypeterson88@penguin:~$ sudo delgroup petergroup
Removing group `petergroup' ...
Done.
cherypeterson88@penguin:~$ sudo delgroup petersongroup
Removing group `petersongroup' ...
Done.
cherypeterson88@penguin:~$ cat /etc/group | grep petergroup
cherypeterson88@penguin:~$ cat /etc/group | grep petersongroup
```

4) Gestion des services

```
cherypeterson88@penguin:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap ssl-cert
0 upgraded, 9 newly installed, 0 to remove and 1 not upgraded.
Need to get 2,216 kB of archives.
After this operation, 7,858 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://deb.debian.org/debian bookworm/main amd64 libapr1 amd64 1.7.2-3+deb
```

7) Identifier PID

```
cherypeterson88@penguin:~$ sudo systemctl start apache2
cherypeterson88@penguin:~$ sudo systemctl stop apache2
cherypeterson88@penguin:~$ sudo systemctl restart apache2
cherypeterson88@penguin:~$ systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; preset: enabl>
   Drop-In: /run/systemd/system/service.d
           └─zzz-lxc-service.conf
   Active: active (running) since Thu 2024-11-28 21:59:05 EST; 41s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 1883 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUC>
  Main PID: 1887 (apache2)
    Tasks: 55 (limit: 3293)
   Memory: 4.8M
   CGroup: /system.slice/apache2.service
           └─1887 /usr/sbin/apache2 -k start
             └─1888 /usr/sbin/apache2 -k start
               └─1889 /usr/sbin/apache2 -k start

lines 1-14/14 (END)
```

6) Comparaison ps , top et htop

```
cherypeterson88@penguin:~$ ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.1  0.4 169040 13184 ?        Ss   21:19   0:04 /sbin/init
root        66  0.0  0.5  50272 16788 ?        Ss   21:19   0:01 /lib/systemd/sys
root        77  0.0  0.2  24040  5632 ?        Ss   21:19   0:00 /lib/systemd/sys
root        96  0.0  0.2  236824 7552 ?        Ssl  21:19   0:00 /usr/libexec/acc
avahi       97  0.0  0.1   8288  3840 ?        Ss   21:19   0:00 avahi-daemon: ru
message+   98  0.0  0.1   9792  5376 ?        Ss   21:19   0:01 /usr/bin/dbus-da
polkitd    101  0.0  0.3  310428 10176 ?        Ssl  21:19   0:00 /usr/lib/polkit-
root       102  0.0  0.2  17356  8064 ?        Ss   21:19   0:00 /lib/systemd/sys
root       103  0.0  0.4  394180 12032 ?        Ssl  21:19   0:00 /usr/libexec/udi
avahi      104  0.0  0.0   8100  1416 ?        S   21:19   0:00 avahi-daemon: ch
root       113  0.0  0.2  16532  6784 ?        Ss   21:19   0:00 /sbin/wpa_suppli
root       135  0.0  0.6  258284 19328 ?        Ssl  21:19   0:00 /usr/sbin/Networ
root       169  0.0  0.1   5868  3456 ?        Ss   21:19   0:00 dhclient -4 -v -
root       209  0.0  0.5  139424 16000 ?        Ssl  21:20   0:00 /usr/bin/sddm
cherype+  210  0.0  0.4  19804 11392 ?        Ss   21:20   0:00 /lib/systemd/sys
root       211  0.0  0.0   5496  2048 pts/0    Ss+  21:20   0:00 /sbin/agetty -o
cherype+  232  0.0  0.1  103436  4712 ?        S   21:20   0:00 (sd-pam)
cherype+  273  0.0  0.4  51972 13184 ?        Ssl  21:20   0:00 /usr/bin/pipewir
cherype+  279  0.0  0.5  252684 14208 ?        Ssl  21:20   0:00 /usr/bin/wireplu
cherype+  282  0.0  0.3  26556  8832 ?        Ssl  21:20   0:00 /usr/bin/pipewir
cherype+  296  0.0  0.1   9120  4736 ?        Ss   21:20   0:00 /usr/bin/dbus-da
cherype+  297  0.0  0.6  36148 16896 ?        Ss   21:20   0:00 /opt/google/cros
cherype+  298  0.0  0.6  36136 16896 ?        Ss   21:20   0:00 /opt/google/cros
cherype+  299  0.0  0.1   6824  4096 ?        Ss   21:20   0:00 /opt/google/cros
cherype+  303  0.0  0.1   6824  4224 ?        Ss   21:20   0:00 /opt/google/cros
rtkit      309  0.0  0.1  22700  3072 ?        Ssl  21:20   0:00 /usr/libexec/rtk
cherype+  337  0.0  1.2  55300 35200 ?        S   21:20   0:00 /opt/google/cros
cherype+  338  0.0  1.2  57940 35456 ?        S   21:20   0:01 /opt/google/cros
cherype+  390  0.1  0.6 1057876 18040 ?        Ssl  21:20   0:03 /opt/google/cros
cherype+  391  0.0  0.0   3628  2432 ?        Ss   21:20   0:00 /opt/google/cros
cherype+  408  0.0  0.0   2644  1792 ?        Ss   21:20   0:00 /usr/lib/openssh
```

```
0[ ] 3.2% Tasks: 43, 90 thr, 0 kthr; 1 running
1[ ] 0.7% Load average: 0.03 0.08 0.03
Mem[ ] 168M/2.68G Uptime: 00:59:45
Swp[ ] 0K/0K

Main I/O
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
390 cherypeterson 20 0 1033M 18168 14976 S 0.7 0.6 0:04.36 /opt/google/cros
410 cherypeterson 20 0 754M 147M 114M S 1.3 5.4 0:22.94 konsole
2103 cherypeterson 20 0 7960 3968 3200 R 0.7 0.1 0:02.95 htop
1 root 20 0 165M 13184 8960 S 0.0 0.5 0:04.21 /sbin/init
66 root 20 0 50272 16916 15360 S 0.0 0.6 0:01.25 /lib/systemd/sys
77 root 20 0 24040 5120 3456 S 0.0 0.2 0:00.28 /lib/systemd/sys
96 root 20 0 231M 7552 6656 S 0.0 0.3 0:00.96 /usr/libexec/acc
97 avahi 20 0 8288 3584 3328 S 0.0 0.1 0:00.11 avahi-daemon: ru
98 messagebus 20 0 9792 5248 4224 S 0.0 0.2 0:01.35 /usr/bin/dbus-da
101 polkitd 20 0 303M 10176 7424 S 0.0 0.4 0:00.36 /usr/lib/polkit-
102 root 20 0 17356 8064 6784 S 0.0 0.3 0:00.65 /lib/systemd/sys
103 root 20 0 384M 12032 10240 S 0.0 0.4 0:00.14 /usr/libexec/udi
104 avahi 20 0 8100 1288 1024 S 0.0 0.0 0:00.00 avahi-daemon: ch
106 polkitd 20 0 303M 10176 7424 S 0.0 0.4 0:00.00 /usr/lib/polkit-
107 root 20 0 384M 12032 10240 S 0.0 0.4 0:00.00 /usr/libexec/udi
111 root 20 0 231M 7552 6656 S 0.0 0.3 0:00.16 /usr/libexec/acc
113 root 20 0 16532 6656 5888 S 0.0 0.2 0:00.08 /sbin/wpa_suppli
114 root 20 0 384M 12032 10240 S 0.0 0.4 0:00.01 /usr/libexec/udi
115 polkitd 20 0 303M 10176 7424 S 0.0 0.4 0:00.05 /usr/lib/polkit-
116 root 20 0 231M 7552 6656 S 0.0 0.3 0:00.00 /usr/libexec/acc
132 root 20 0 384M 12032 10240 S 0.0 0.4 0:00.00 /usr/libexec/udi
133 root 20 0 384M 12032 10240 S 0.0 0.4 0:00.00 /usr/libexec/udi
135 root 20 0 252M 18432 15744 S 0.0 0.7 0:00.42 /usr/sbin/Networ
169 root 20 0 5868 3456 2688 S 0.0 0.1 0:00.02 dhclient -4 -v -
201 root 20 0 252M 18432 15744 S 0.0 0.7 0:00.14 /usr/sbin/Networ
F1Help F2Setup F3Search F4Filter F5Tree F6SortB/F7Nice F8Nice F9Kill F10Quit
```

```
Tasks: 41 total, 1 running, 38 sleeping, 2 stopped, 0 zombie
%Cpu(s): 0.2 us, 0.2 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 2747.0 total, 1801.0 free, 151.7 used, 794.3 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used, 2595.4 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
410 cherype+ 20 0 772608 150784 117360 S 0.3 5.4 0:19.95 konsole
424 cherype+ 20 0 54208 20992 17280 S 0.3 0.7 0:05.14 ld-linux-x+
1995 cherype+ 20 0 11612 5248 3200 R 0.3 0.2 0:00.23 top
1 root 20 0 169040 13184 8960 S 0.0 0.5 0:04.20 systemd
66 root 20 0 50272 16788 15232 S 0.0 0.6 0:01.18 systemd-jo+
77 root 20 0 24040 5632 3968 S 0.0 0.2 0:00.28 systemd-ud+
96 root 20 0 236824 7552 6656 S 0.0 0.3 0:00.95 accounts-d+
97 avahi 20 0 8288 3840 3584 S 0.0 0.1 0:00.11 avahi-daem+
98 message+ 20 0 9792 5376 4352 S 0.0 0.2 0:01.23 dbus-daemon
101 polkitd 20 0 310428 10176 7424 S 0.0 0.4 0:00.36 polkitd
102 root 20 0 17356 8064 6784 S 0.0 0.3 0:00.65 systemd-lo+
103 root 20 0 394180 12032 10240 S 0.0 0.4 0:00.14 udisksd
104 avahi 20 0 8100 1416 1152 S 0.0 0.1 0:00.00 avahi-daem+
113 root 20 0 16532 6784 6016 S 0.0 0.2 0:00.08 wpa_suppli+
135 root 20 0 258284 19328 16640 S 0.0 0.7 0:00.41 NetworikMan+
169 root 20 0 5868 3456 2688 S 0.0 0.1 0:00.02 dhclient
209 root 20 0 139424 16000 14720 S 0.0 0.6 0:00.07 sddm
210 cherype+ 20 0 19804 11392 8832 S 0.0 0.4 0:00.62 systemd
211 root 20 0 5496 2048 1920 S 0.0 0.1 0:00.00 agetty
232 cherype+ 20 0 103436 4712 1664 S 0.0 0.2 0:00.00 (sd-pam)
273 cherype+ 20 0 51972 13184 9728 S 0.0 0.5 0:00.17 pipewire
279 cherype+ 20 0 252684 14208 11136 S 0.0 0.5 0:00.34 wireplumber
282 cherype+ 20 0 26556 8832 7680 S 0.0 0.3 0:00.11 pipewire-p+
296 cherype+ 20 0 9120 4736 4352 S 0.0 0.2 0:00.07 dbus-daemon
297 cherype+ 20 0 36148 16896 13184 S 0.0 0.6 0:00.41 ld-linux-x+
298 cherype+ 20 0 36136 16896 13184 S 0.0 0.6 0:00.39 ld-linux-x+
299 cherype+ 20 0 6824 4096 3712 S 0.0 0.1 0:00.21 ld-linux-x+
```

9) Creation des fichiers texte

```

cherypeterson88@penguin:~$ sudo certbot --apache
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel):
Invalid email address: .

If you really want to skip this, you can run the client with
--register-unsafely-without-email but you will then be unable to receive notice
about impending expiration or revocation of your certificates or problems with
your Certbot installation that will lead to failure to renew.

Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel): petergraphic35@gmail.com

-----
Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.4-April-3-2024.pdf. You must agree in

```

```

If you really want to skip this, you can run the client with
--register-unsafely-without-email but you will then be unable to receive notice
about impending expiration or revocation of your certificates or problems with
your Certbot installation that will lead to failure to renew.

Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel): petergraphic35@gmail.com

-----
Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.4-April-3-2024.pdf. You must agree in
order to register with the ACME server. Do you agree?
-----
(Y)es/(N)o: y

-----
Would you be willing, once your first certificate is successfully issued, to
share your email address with the Electronic Frontier Foundation, a founding
partner of the Let's Encrypt project and the non-profit organization that
develops Certbot? We'd like to send you email about our work encrypting the web,
EFF news, campaigns, and ways to support digital freedom.
-----
(Y)es/(N)o: y
Account registered.
Please enter the domain name(s) you would like on your certificate (comma and/or
space separated) (Enter 'c' to cancel): sudo nano /etc/apache2/sites-available/mo
nsite.conf
Requesting a certificate for sudo and 2 more domains

```

Conclusion:

J'ai appris les compétences nécessaires pour créer et gérer des utilisateurs et groupes sur linux.