Thapar Institute of Engineering and Technology, Patiala
Computer Science and Engineering Department
Information Security Laboratory (UCT602)
Assignment:3

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Objective: **Securing user environment.**

Answer the following:

Sr. No.	Query	Answer/Remarks
1	Find your User Name	systemd-timesync:x:977:977:systemd Time Synchronization:/:/ primus:x:1000:1000:Primus:/home/primus:/bin/bash akmods:x:976:976:User is used by akmods to build akmod pack "primus:x:1000:1000:Primus:/home/primus:/bin/bash" this is the command. Username- primus
2	Find your Password	[primus@primus etc]$ sudo cat passwd [sudo] password for primus: root:x:0:0:Super User:/root:/bin/bash as a user it will show reference to your password using "sudo cat passwd" which is "x" which gets hashed in shadow folder for which to access it we will "sudo cat shadow".We cannot see real password but a reference of it. systemd-timesync:!*:19460::::::: primus:yj9T$bOuRf4tbRNaAf42YrCC7M/$fNsoeIGd76PSFeq2bsEKjE1xiyu4U4Hg/8sLJ5J8HuD:19645:0:99999:7: akmods:!!:19645::::::: password-yj9T$bOuRf4tbRNaAf42YrCC7M/$fNsoeIGd76PSFeq2bsEKjE1xiyu4U4Hg/8sLJ5J8HuD
3	Find your UID	systemd-timesync:x:977:977:systemd Time Synchronization:/:/ primus:x:1000:1000:Primus:/home/primus:/bin/bash akmods:x:976:976:User is used by akmods to build akmod pack The meaning for this format is "username:password:UID:GID:comment:home_directory:login_shell" So the UID is 1000 [primus@primus etc]$ id -u 1000 [primus@primus etc]$

4	Find your GID	My GID is 1000 using the previous screenshot systemd-timesync:x:977:977:systemd Time Synchronization:/:/ primus:x:1000:1000:Primus:/home/primus:/bin/bash akmods:x:976:976:User is used by akmods to build akmod pack [primus@primus etc]$ id -g 1000 [primus@primus etc]$
5	Find User Info	[primus@primus etc]$ finger primus Login: primus Name: Primus Directory: /home/primus Shell: /bin/bash On since Thu Feb 1 14:05 (IST) on seat0 from login screen (messages off) On since Thu Feb 1 14:05 (IST) on tty2 from tty2 1 hour 10 minutes idle No mail. No Plan. [primus@primus etc]$ grep primus /etc/passwd primus:x:1000:1000:Primus:/home/primus:/bin/bash [primus@primus etc]$
6	Find your Home Directory	[primus@primus ~]$ ls Documents Downloads GNS3 Music Pictures Postman Public Softwares [primus@primus ~]$ cd .. [primus@primus home]$ ls [primus@primus home]$ cd .. [primus@primus /]$ ls afs boot etc lib lost+found mnt proc run srv tmp var bin dev home lib64 media opt root sbin sys usr [primus@primus /]$ cd /home/primus To find home directory we will press "cd" which will redirect us to the home directory of the user which is "primus" for me. If we do "cd .."we will reach to actually root directory where all the users are displayed
7	Find your Shell: The absolute path of a command or shell	cd /bin/bash or $ which bash [primus@primus ~]$ which bash /usr/bin/bash [primus@primus ~]$
8	Group information: ▪ Group Name: ▪ Group Password: ▪ Group ID: ▪ Group List	[primus@primus bin]$ getent group primus primus:x:1000: [primus@primus bin]$
9	o User name in shadow	systemd-timesync..:..:19400..:... primus:yj9T$bOuRf4tbRNaAf42YrCC7M/$fNsoeIGd76PSFeq2bsEKjE1xiyu4U4Hg/8sLJ5J8HuD :19645:0:99999:7::: primus:yj9T$bOuRf4t bRNaAf42YrCC7M/$fN soeIGd76PSFeq2bsEKjE 1xiyu4U4Hg/8sLJ5J8Hu D:19645:0:99999:7:::
10	o Password in shadow	yj9T$bOuRf4tbRNaAf 42YrCC7M/$fNsoeIGd7 6PSFeq2bsEKjE1xiyu4U 4Hg/8sLJ5J8HuD
11	o Last password changed	Oct 15, 2023
12	o Minimum number of days required between password change	0

| 13 | o Maximum number of days the password is valid | 99999 |
| 14 | o Warn: the number of days before the password is to expire | 7 |

15	o Expire: An absolute date specifying when the login may no longer be used	never
16	o Inactive: the number of days after password expire that account is disabled	never

1.
```
systemd-timesync:x:977:977:systemd Time Synchronization:/:/u
primus:x:1000:1000:Primus:/home/primus:/bin/bash
akmods:x:976:976:User is used by akmods to build akmod packa
```

2.
```
[primus@primus etc]$ sudo cat passwd
[sudo] password for primus:
root:x:0:0:Super User:/root:/bin/bash
```

```
systemd-timesync:!*:19460::::::
primus:$y$j9T$bOuRf4tbRNaAf42YrCC7M/$fNsoeIGd76PSFeq2bsEKjE1xiyu4U4Hg/8sLJ5J8HuD:19645:0:99999:7:::
akmods:!!:19645::::::
```

3.
```
systemd-timesync:x:977:977:systemd Time Synchronization:/:/u
primus:x:1000:1000:Primus:/home/primus:/bin/bash
akmods:x:976:976:User is used by akmods to build akmod packa
```

```
[primus@primus etc]$ id -u
1000
[primus@primus etc]$
```

4.
```
systemd-timesync:x:977:977:systemd Time Synchronization:/:/u
primus:x:1000:1000:Primus:/home/primus:/bin/bash
akmods:x:976:976:User is used by akmods to build akmod packa
```

```
[primus@primus etc]$ id -g
1000
[primus@primus etc]$
```

5.

```
[primus@primus etc]$ finger primus
Login: primus                         Name: Primus
Directory: /home/primus               Shell: /bin/bash
On since Thu Feb  1 14:05 (IST) on seat0 from login screen (messages off)
On since Thu Feb  1 14:05 (IST) on tty2 from tty2
    1 hour 10 minutes idle
No mail.
No Plan.
[primus@primus etc]$ grep primus /etc/passwd
primus:x:1000:1000:Primus:/home/primus:/bin/bash
[primus@primus etc]$ 
```

6.

```
[primus@primus ~]$ ls
Documents  Downloads  GNS3  Music  Pictures  Postman  Public  Softwares
[primus@primus ~]$ cd ..
[primus@primus home]$ ls
primus
[primus@primus home]$ cd ..
[primus@primus /]$ ls
afs  boot  etc   lib     lost+found  mnt  proc  run   srv  tmp  var
bin  dev   home  lib64   media       opt  root  sbin  sys  usr
[primus@primus /]$ 
```

7.

```
[primus@primus ~]$ which bash
/usr/bin/bash
[primus@primus ~]$ 
```

9.

```
systemd-timesync:!*:19460:......
primus:$y$j9T$bOuRf4tbRNaAf42YrCC7M/$fNsoeIGd76PSFeq2bsEKjE1xiyu4U4Hg/8sLJ5J8HuD
:19645:0:99999:7:::
```

```
gnss.1.15740......
[primus@primus bin]$ chage -l primus
Last password change                            : Oct 15, 2023
Password expires                                : never
Password inactive                               : never
Account expires                                 : never
Minimum number of days between password change  : 0
Maximum number of days between password change  : 99999
Number of days of warning before password expires : 7
[primus@primus bin]$
```