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Section - A3

Branch - Computer Science

Subject - Operating system lab

Subject Code – COM - 312

Experiment 2:- Use of appropriate command to determine your shell, available shells, using ‘who’ command and redirect the to any text file, ‘more’ to view content in files.

(a) Use of appropriate command to determine your logic shell.

➔ To find your current shell type following command

- \$ echo \$SHELL

E.g. = OS_2.1

(b) To find all available shells in your system type which command.

➔ To find all available shells type command:

- \$ cat /etc/shells

E.g. = OS_2.2

(c) Which command is use to verify the result of part (b).

➔ To verify the result of step(b) use the following command:

- \$ cat /etc/passwd

E.g. = 2.3.0

(d) Use the “who” command and redirect the result to a file called myfile1. Use the more command to see the contents of myfile1.

➔ Command typed is: - \$ who -H > myfile1.txt

\$ more -d myfile1.txt

E.g. = OS_2.4

(e) Use the date and who commands in sequence (in one line) such that the output date will display on the screen and the output of who will be redirected to a file called myfile2. Use the more command to check the contents of myfile2.

➔ Command typed is: - \$ date; who -H > myfile2.txt

- \$ more -d myfile2.txt.

E.g. = OS_2.5

(f) Write a sed command that swaps the first and second words in each line in a file.

➔ Command typed is :\$ sed -s "s^\([^]*\) *\([^]*\)^/g" text.txt

E.g. = OS_2.6.2



File Actions Edit View Help

(p1619@kali)~

\$ echo \$SHELL
/usr/bin/zsh

(p1619@kali)~

\$ cat /etc/shells
/etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/bash
/bin/dash
/usr/bin/dash
/usr/bin/pwsh
/opt/microsoft/powershell/7/pwsh
/bin/zsh
/usr/bin/zsh
/usr/bin/tmux
/usr/bin/screen

File Actions Edit View Help

`cat /etc/passwd`

```

root:x:0:0:root:/root:/usr/bin/zsh
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:/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
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,:/run/systemd:/usr/sbin/nologin
mysql:x:103:110:MySQL Server,,:/nonexistent:/bin/false
tss:x:104:111:TPM software stack,,:/var/lib/tpm:/bin/false
strongswan:x:105:65534::/var/lib/strongswan:/usr/sbin/nologin
systemd-timesync:x:106:112:systemd Time Synchronization,,:/run/systemd:/usr/sbin/nologin
uidd:x:107:113::/run/uidd:/usr/sbin/nologin
redsocks:x:108:114::/var/run/redsocks:/usr/sbin/nologin
rwhod:x:109:65534::/var/spool/rwho:/usr/sbin/nologin
iodine:x:110:65534::/run/iodine:/usr/sbin/nologin
messagebus:x:111:115::/nonexistent:/usr/sbin/nologin
miredo:x:112:65534::/var/run/miredo:/usr/sbin/nologin
usbmux:x:113:46:usbmux daemon,,:/var/lib/usbmux:/usr/sbin/nologin
tcpdump:x:114:121::/nonexistent:/usr/sbin/nologin
sshd:x:115:65534::/run/sshd:/usr/sbin/nologin
xrdp:x:116:123::/run/xrdp:/usr/sbin/nologin
_ftp:x:117:65534::/run/rpcbind:/usr/sbin/nologin
dnsmasq:x:118:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
statd:x:119:65534::/var/lib/nfs:/usr/sbin/nologin
avahi:x:120:127:Avahi mDNS daemon,,:/run/avahi-daemon:/usr/sbin/nologin
stunnel4:x:999:999:stunnel service system account:/var/run/stunnel4:/usr/sbin/nologin
rtkit:x:121:128:RealtimeKit,,:/proc:/usr/sbin/nologin
Debian-snmpp:x:122:129::/var/lib/snmpp:/bin/false
speech-dispatcher:x:123:29:Speech Dispatcher,,:/run/speech-dispatcher:/bin/false
sshd:x:124:130::/nonexistent:/usr/sbin/nologin
postgres:x:125:132:PostgreSQL administrator,,:/var/lib/postgresql:/bin/bash
nm-openvpn:x:126:133:NetworkManager OpenVPN,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
inetsim:x:127:135::/var/lib/inetsim:/usr/sbin/nologin
geoclue:x:128:136::/var/lib/geoclue:/usr/sbin/nologin
nm-openconnect:x:129:137:NetworkManager OpenConnect plugin,,:/var/lib/NetworkManager:/usr/sbin/nologin
lightdm:x:130:138:Light Display Manager:/var/lib/lightdm:/bin/false
pulse:x:131:139:PulseAudio daemon,,:/run/pulse:/usr/sbin/nologin
saned:x:132:142::/var/lib/saned:/usr/sbin/nologin
colord:x:133:143:colord colour management daemon,,:/var/lib/colord:/usr/sbin/nologin
king-phisher:x:134:144::/var/lib/king-phisher:/usr/sbin/nologin
p1619:x:1000:1000:p1619,,:/home/p1619:/usr/bin/zsh

```

`(p1619@kali)~``cat /etc/passwd`

```

root:x:0:0:root:/root:/usr/bin/zsh
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

```

```
colord:x:133:143:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
king-phisher:x:134:144::/var/lib/king-phisher:/usr/sbin/nologin
p1619:x:1000:1000:p1619,,,:/home/p1619:/usr/bin/zsh
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
$ who -H > myfile1.txt
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
$ more -d myfile1.txt
NAME      LINE      TIME      COMMENT
p1619     tty7      2022-09-28 21:34 (:0)
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
$ date ; who -H > myfile2.txt
Wednesday 28 September 2022 10:12:29 PM IST
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
$ more -d myfile2.txt
NAME      LINE      TIME      COMMENT
p1619     tty7      2022-09-28 21:34 (:0)
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
$ cat text.txt
Hello World
This is a test file.
To check commands.
This is linux os.
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
$ sed -s "s/\([^\ ]*\) *\([^\ ]*\)/\2 \1 /g" text.txt
World Hello
is This a test file.
check To commands.
is This linux os.
```

```
(p1619@kali) - [~/Desktop/Files/Folder]
```