Module Code & Module Title

Level 5 – Network Operating Systems

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Logbook 6

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Table of content

Contents

1) Objective:

The goal of this logbook is to learn and practice basic Linux shell commands that help you check information, create new files, and organize.

2) Steps And Observation:

1) File is created and recorded

```
Enter new UNIX username: dbn
New password:
Retype new password:
passwd: password updated successfully
Installation successful!
dbn@DESKTOP-EPT06T2:~$ script a1script
Script started, output log file is 'a1script'.
```

Figure 1 Creating file

2) **All the users who are logging in to the system can be seen**

```
dbn@DESKTOP-EPT06T2:~$ whoami
dbn
```

Figure 2 Displaying usernames

3) The command in the figure will give the account details

```
dbn@DESKTOP-EPT06T2:~$ finger dbn
Login: dbn                          Name:
Directory: /home/dbn               Shell: /bin/bash
On since Mon Dec  9 19:07 (+0545) on pts/1   18 minutes idle
     (messages off)
No mail.
No Plan.
```

Figure 3 Displaying account details

4) **Date and time is Displayed**

```
dbn@DESKTOP-EPT06T2:~$ date
Mon Dec  9 07:26:21 PM +0545 2024
```

Figure 4 Displaying date and time

5) **File information can be seen**

```
dbn@DESKTOP-EPT06T2:~$ ls
a1script
dbn@DESKTOP-EPT06T2:~$ ls -a
.  ..   a1script  .bash_logout  .bashrc  .profile  .sudo_as_admin_successful
dbn@DESKTOP-EPT06T2:~$ ls -a -1
.
..
a1script
.bash_logout
.bashrc
.profile
.sudo_as_admin_successful
```

Figure 5 Displaying file information

6) Different contents of files are displayed

```
dbn@DESKTOP-EPT06T2:~$ 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:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
dbn:x:1000:1000:,,,:/home/dbn:/bin/bash
```

Figure 6 Displaying file contents

7) **Two files are created**

```
dbn@DESKTOP-EPT06T2:~$ echo "This is a one-line file" > test1
dbn@DESKTOP-EPT06T2:~$ cat > test2
This is file two.
It has several lines.
Three lines, in fact.
```

Figure 7 Displaying created files

8) **Finalizing the verification**

```
dbn@DESKTOP-EPT06T2:~$ cat test1 test2 > combined_file
dbn@DESKTOP-EPT06T2:~$ cat combined_file
This is a one-line file
This is file two.
It has several lines.
Three lines, in fact.
```

Figure 8 Finalizing verification

9) Ending script session

```
dbn@DESKTOP-EPT06T2:~$ exit
exit
Script done.
dbn@DESKTOP-EPT06T2:~$ |
```

Figure 9 Ending Script

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3) Conclusion:

This logbook helps us learn about Linux and its commands. It also teaches us how to check information, manage files, and combine file contents.