



Network Operating System – CT5052

Assessment Type

Logbook 6

Semester

2024/25 Spring/Autumn

Student Name: Dipen Khatri

London Met ID: 23056968

College ID: NP04CP4A230244

Assignment Due Date: 14th December 2024

Assignment Submission Date:14th December 2024

Submitted To: Mr. Prashant Adhikari

I confirm that I understand my coursework needs to be submitted online via my secondary teacher under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

Table of Contents

Introduction	4
Key Features of Linux	4
Table of figures	
Figure 1 Inserting a1 script	5
Figure 2 Typing whoami to see what exists	
Figure 3 Typing who to see everyone	
Figure 4 Typing fingerkali	7
Figure 5 Typing date	7
Figure 6 Typing Is	7
Figure 7 Typing Is-a	
Figure 8 Typing Is-q-I	

Figure 9 Typing cat /etc/passwd	9
Figure 10 Creating a file name test1	
Figure 11 Creating cat>test2	10
Figure 12 Showing that file exists	11
Figure 13 Combining test1 and test2	11

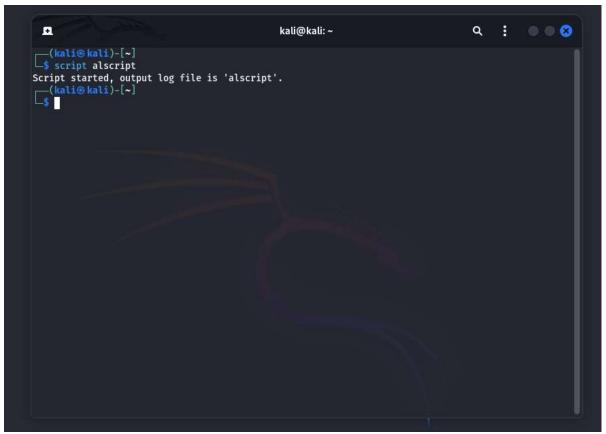
Introduction

An open-source operating system called Linux is used to manage and control machines. Its foundation is the Unix operating system, which is renowned for its security, reliability, and adaptability.

Key Features of Linux

- 1. Open Source: The source code is freely available which allows everyone to view, modify, and share it.
- 2. Customizability: Linux can be modified by users to meet specific requirements for embedded devices such as cellphones, servers, and personal PCs.
- 3. Security: When compared to other operating systems, Linux is incredibly secure.
- 4. Multi-user and multitasking: It effectively manages several processes and may be utilized by numerous users working on a Linux system at once.
- 5. Distributions: Ubuntu, Fedora, Debian, and CentOS are just a few of the Linux distributions available.

Step 1: Script started, file is a1script



Step

Figure 1 Inserting a1 script

Step 2: Type whoami to see the username.

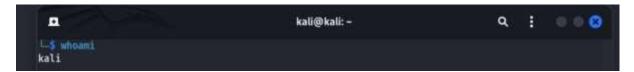


Figure 2 Typing whoami to see what exists

Step 3: Type who to see a list of everyone on the system.

Figure 3 Typing who to see everyone

Step 4: Type finger linuxnnn, (where linuxnnn is your username) to see more information about your account.

Figure 4 Typing fingerkali

Step 5: Type date, to see today's date and the current time.

Figure 5 Typing date

Step 6: Which files are yours? Enter these three commands. Each one generates a unique result.

LS

What makes a difference?

Figure 6 Typing Is

```
в
                                                 kali@kali: ~
                                                                                         Q
                                                                                             •
                                                                                                   0 0 8
__(kali⊛kali)-[~]
_$ ls
                                                    alscript
                                                    'restaurants middle robot.txt'
__(kali⊛kali)-[~]

$ la -a
                                                      .vboxclient-display-svga-x11-tty2-service.pid
.vboxclient-draganddrop-tty2-control.pid
.bash_logout
                                                      .vboxclient-draganddrop-tty2-service.pid
.bashrc
                                                      .vboxclient-hostversion-tty2-control.pid
.bashrc.original
                                                      .vboxclient-seamless-tty2-control.pid
                                                      .vboxclient-seamless-tty2-service.pid
                                                      .vboxclient-vmsvga-session-tty2-control.pid
.face
                                                      .zsh_history
                                                      .zshrc
                                                     Desktop
.john
.local
                                                     Templates
Videos
.profile
 .sudo_as_admin_successful
 .vboxclient-clipboard-tty2-control.pid
                                                     alscript
.vboxclient-clipboard-tty2-service.pid
                                                     'restaurants middle robot.txt'
 .vboxclient-display-svga-x11-tty2-control.pid
__(kali⊛kali)-[~]
_$ [
```

Figure 7 Typing Is-a

```
kali@kali: -
                                                                                 Q 🚦 🔞
total 168
drwx----- 18 kali kali 4096 Dec 12 22:49
drwxr-xr-x 3 root root
                         4096 Dec 9 22:15
                                            .bash_logout
            1 kali kali
                         220 Dec
                                   9 22:15
-rw-r--r--
           1 kali kali
                        5551 Dec
                                  9 22:15
                                            bashrc
-rw-r--r-- 1 kalî kalî
                        3526 Dec 9 22:15
                                            .bashrc.original
drwx----- 14 kali kali
                        4096 Dec 10 22:46
drwxr-xr-x 22 kali kali
                        4096 Dec 11 22:47
-rw-r--r-- 1 kali kali 11759 Dec 9 22:15
                                            .face
lrwxrwxrwx 1 kali kali
                            5 Dec
                                  9 22:15
                                             face icon -> .face
           4 kali kali
                        4096 Dec 10 02:56
drwx---
drwxr-xr-x 3 kali kali 4096 Dec
                                  9 22:15
                        4096 Dec 10 01:06
drwx----- 2 kali kali
drwxr-xr-x 4 kali kali
                        4096 Dec
                                  9 22:17
                                  9 22:22
drwx----- 4 kali kali
                         4096 Dec
drax-----
            3 kali kali
                         4096 Dec 10 22:10
-rw-r--r--
            1 kali kali
                          807 Dec 9 22:15
-rw-r--r--
            1 kali kali
                           0 Dec 9 22:18
                                            .sudo_as_admin_successful
                            5 Dec 12 22:47
                                            .vboxclient-clipboard-tty2-control.pid
-LA-L----
            1 kali kali
                                            .vboxclient-clipboard-tty2-service.pid
-PH-P----
           1 kali kali
                            5 Dec 12 22:47
                            5 Dec 12 22:47 .vboxclient-display-svga-x11-tty2-control.pid
-rw-r----
            1 kali kali
                                           .vboxclient-display-svga-x11-tty2-service.pid
.vboxclient-draganddrop-tty2-control.pid
-rw-r----
            1 kali kali
                            5 Dec 12 22:47
-rw-r-----
            1 kali kali
                            5 Dec 12 22:47
-rw-r----
            1 kali kali
                            5 Dec 12 22:47
                                            .vboxclient-draganddrop-tty2-service.pid
            1 kali kali
                            5 Dec 12 22:47
                                            .vboxclient-hostversion-tty2-control.pid
-rw-r-----
           1 kali kali
                            5 Dec 12 22:47
                                            .vboxclient-seamless-tty2-control.pid
-rw-r----
           1 kali kali
                            5 Dec 12 22:47
                                            .vboxclient-seamless-tty2-service.pid
-rw-r---- 1 kali kali
                            5 Dec 12 22:47
                                            .vboxclient-vmsvga-session-tty2-control.pid
```

Figure 8 Typing Is-q-I

Step 7: What's in a file? Type below commands. cat /etc/passwd

```
а
                                                kali@kali: ~
                                                                                     Q
                                                                                                (kali@ kali)-[~]
s 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
_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
_galera:x:100:65534::/nonexistent:/usr/sbin/nologin
mysql:x:101:102:MariaDB Server,,,:/nonexistent:/bin/false
tss:x:102:103:TPM software stack,,,:/var/lib/tpm:/bin/false
systemd-timesync:x:992:992:systemd Time Synchronization:/:/usr/sbin/nologin
rwhod:x:103:65534::/var/spool/rwho:/usr/sbin/nologin
_gophish:x:104:105::/var/lib/gophish:/usr/sbin/nologin
iodine:x:105:65534::/run/iodine:/usr/sbin/nologin
messagebus:x:106:106::/nonexistent:/usr/sbin/nologin
```

Figure 9 Typing cat /etc/passwd

Step 8: Type the following to create a file called test1:

echo > test1 "This is a one-line file"

Figure 10 Creating a file name test1

Step 9: Type the following to create a new file, where CTRL-D is represented by ^D. cat > test2.

The second file is this one.

There are multiple lines in it.

In actuality, three lines. ^D

Figure 11 Creating cat>test2

Step 10: Show that the file exists, and what it contains.

Figure 12 Showing that file exists

Step 11: Combine test1 and test2 file.

Figure 13 Combining test1 and test2