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I confirm that I understand my coursework needs to be submitted online via Google Classroom 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

Tak	ne or contents	
1.	Introduction	3
2.	Objective	3
3.	Conclusion	7
Tab	ole of figure	
	ure 1 : Typing script a1script at the prompt	
Figu	ure 2 : Type whoami to see username	4
Figu	ure 3 : Type who to see a list of everyone on the system	4
Figu	ure 4:Type your username to view about yourself	4
Figu	ure 5 : To see today's date and the current time type date	4
	ure 6 typing ls	
	ıre 7 Typing Is -a	
_	ure 8 Typing Is -a -I	
Figu	ure 9 Checking what is in the file	6
Figu	ure 10 Creating the file named test 1	6
	ure 11 Creating another file using this command	
_	ure 12 Showing that the file exists and what it contains	
	ure 13 Combining test 1 and test 2	
_	_	

Figure 14 Exiting the script.......7

1. Introduction

This exercise describes how to become more familiar with basic Linux commands and the command-line environment. First, it starts a script session, exploring commands such as whoami, who, and finger to look up information about your user account and the system. Next, it shows numerous ways to list files with Is, Is -a, or Is -a -I so that you can identify the differences. You will get to know the command cat while looking at the contents of some selected files, creating other new files, and appending text in those files. Among these processes is the creation of a file named test1 using the echo command and another file called test2 with the cat command. These will be used to check if the files exist and what they contain before trying to combine them to find out how file merging works in Linux. Finally, you will exit the script session. Accomplishing these will lead you to practically learning file handling, user commands, and working more efficiently in a Linux environment.

2. Objective

This activity will help the learner understand basic commands in Linux and how to use the command line. It will start with running the script to track down a session, followed up by the users who used commands like whoami and who for various other details regarding user and system details. Next, students will list their files in different ways using Is commands and understand how their outputs differ. Emerging from the investigation is the exploration of a system file's contents using cat, creating one's own via echo and cat, and also merging the two files to learn how to merge data. Finally, the session will teach you how to navigate the Linux filesystem, view user information, and manage files easily. A simple but effective way to learn the fundamentals of Linux.

```
ubuntu@ubuntu:~$ script alscript
Script started, output log file is 'alscript'.
```

Figure 1: Typing script a1script at the prompt.

```
ubuntu@ubuntu:-$ whoami
ubuntu@ubuntu:-$
```

Figure 2: Type whoami to see username.

```
ubuntu@ubuntu:~$ who
ubuntu :0 2024-12-13 15:34 (:0)
ubuntu@ubuntu:~$
```

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

Figure 4: Type your username to view about yourself.

```
ubuntu@ubuntu:~$ date
Fri Dec 13 04:30:56 UTC 2024
ubuntu@ubuntu:~$
```

Figure 5: To see today's date and the current time type date.

```
ubuntu@ubuntu:~$ ls

Desktop Downloads Pictures Templates alscript

Documents Music Public Videos snap
```

Figure 6 typing Is

```
.s-a: command not round
.buntu@ubuntu:-$ ls -a
.cache .profile Downloads Templates
.config .sudo_as_admin_successful Music Videos
.bash_logout .gvfs Desktop Pictures alscript
.bashrc .local Documents Public snap
.buntu@ubuntu:-$
```

Figure 7 Typing Is -a

```
ubuntu@ubuntu:~$ ls -a -1

.bash_logout
.bashrc
.cache
.config
.gvfs
.local
.profile
.sudo_as_admin_successful
Desktop
Documents
Downloads
Music
Pictures
Public
Templates
Videos
alscript
snap
```

Figure 8 Typing Is -a -l

The difference between Is, Is-a, Is -a -I: are:

Is: Shows files and directories, but hides hidden files.

Is -a: Shows all files, including hidden ones (files starting with .).

Is -a -I: Shows all files with details like permissions, size, owner, and date.

```
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
                                               🖸 💿 💾 📜 🗐 🥟 📄 🗐 🚰 🔯 🕒 💽 Righ
```

Figure 9 Checking what is in the file

```
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/
usr/sbin/nologin
ubuntu:x:1000:1000:Live session user,,,:/home/ubuntu:/bin/bash
installer:x:1001:1001:Ubuntu:/home/installer:/usr/bin/subiquity-shell
ubuntu@ubuntu:~$ echo "this is a one-line file"> test1
ubuntu@ubuntu:~$

\[ \int \frac{1}{2} \text{ \text{ \text{ \text{ubuntu@ubuntu:}}} \]
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```

Figure 10 Creating the file named test 1

```
Three: command not found
ubuntu@ubuntu:-$ cat > test2

This is file two.

It have several lines.
Three lines, in fact.ubuntu@ubuntu:-$
ubuntu@ubuntu:-$ ls

Desktop Downloads Pictures Templates alscript test1

Documents Music Public Videos snap test2
ubuntu@ubuntu:-$
```

Figure 11 Creating another file using this command

```
Documents Music Public Videos snap test2

ubuntu@ubuntu:~$ cat test1 test2 > combine.txt

ubuntu@ubuntu:~$
```

Figure 12 Showing that the file exists and what it contains

```
ubuntu@ubuntu:~$ cat combine.txt
this is a one-line file
This is file two.
It have several lines.
Three lines, in fact.ubuntu@ubuntu:~$
```

Figure 13 Combining test 1 and test 2

```
Three lines, in fact.ubuntu@ubuntu:~$ exit script
exit
bash: exit: script: numeric argument required
Script done.
ubuntu@ubuntu:~$
```

Figure 14 Exiting the script

3. Conclusion

This exercise introduces students to simple Linux commands for using a shell script to gain access to a Linux system. We find the username using the command whoami, whereas who returns a list of all currently logged-in users. If you want to know more information concerning an account, you can use finger. The command date shows the current date and time set in your system. Variations of Is show how file listings could include those with hidden files (using Is -a) or with further properties (Is -a -I). The cat command as it lists out the contents of files, creates files, and concatenates to form a new file. Finally, exiting the script saved all interactions to show how efficiently Linux can be utilized to manage files and access user information.