## 100 Day Cyber Security Challenge Day 1

## **Linux Basic Commands**

## **>** What is Linux?

Just like Windows, iOS, and Mac OS, Linux is an operating system. In fact, one of the most popular platforms on the planet, Android, is powered by the Linux operating system. An operating system is software that manages all the hardware resources associated with your desktop or laptop. To put it simply, the operating system manages the communication between your software and your hardware. Without the operating system (OS), the software wouldn't function.

## **Common Linux Commands**

S.No.	Command	Function
1.	ls	Displays information about files in the current directory.
2.	pwd	Shows the current working directory's path
3.	cd	Changes the working directory
4.	mkdir	Creates a new directory
5.	rm	Deletes a file
6.	ср	Copies files and directories, including their content

7.	mv	Moves or renames files and directories
8.	touch	
		Creates a new empty file
9.	file	Checks a file's type
10.	zip and unzip	
		Creates and extracts a ZIP archive
11.	tar	Archives files without compression in a
		TAR format
12.	nano, vi, and jed	Edits a file with a text editor
13.	cat	Lists, combines, and writes a file's
10.		content as a standard output
14.	grep	
'		Searches a string within a file
15.	sed	Finds, replaces, or deletes patterns in a
10.		file
16.	head	Displays a file's first ten lines
17.	tail	Prints a file's last ten lines
18.	awk	Finds and manipulates patterns in a file
19.	sort	Reorders a file's content
20.	cut	Sections and prints lines from a file
21	diff	Compares two files' content and their
21.		differences
22.	tee	Prints command outputs in Terminal
		and a file
23.	locate	Finds files in a system's database
24.	find	Outputs a file or folder's location
25.	sudo	Runs a command as a superuser

26.	su	Runs programs in the current shell as another user
27.	chmod	Modifies a file's read, write, and execute
27.		permissions
28.	chown	Changes a file, directory, or symbolic link's ownership
29.	useradd and userdel	Creates and removes a user account
30.	df	Displays the system's overall disk space usage
31.	du	Checks a file or directory's storage
51.		consumption
32.	top	Displays running processes and the system's resource usage
33.	htop	Works like <b>top</b> but with an interactive
55.	-	user interface
34.	ps	Creates a snapshot of all running
04.		processes
35.	uname	Prints information about your
		machine's kernel, name, and hardware
36.	hostname	Shows your system's hostname
37.	time	Calculates commands' execution time
38.	systemctl	Manages system services
39.	watch	Runs another command continuously
40.	jobs	Displays a shell's running processes
70.		with their statuses
41.	kill	Terminates a running process
42.	shutdown	Turns off or restarts the system
43.	ping	Checks the system's network
		connectivity
44.	wget	Downloads files from a URL

45.	curl	Transmits data between servers using URLs
46.	scp	Securely copies files or directories to
10.		another system
47.	rsync	Synchronizes content between
.,,		directories or machines
48.	lfconfig	Displays the system's network
		interfaces and their configurations
49.	netstat	Shows the system's network
		information, like routing and sockets
50.	traceroute	Tracks a packet's hops to its destination
51.	nslookup	Queries a domain's IP address and vice
		versa
52.	dig	Displays DNS information, including
02.		record types
53.	history	Lists previously run commands
54.	man	
<b>0</b> 4.		Shows a command's manual
55.	echo	Prints a message as a standard output
56.	ln	Links files or directories
57.	alias and unalias	Sets and removes an alias for a file or
<b>J</b> / .		command
58.	cal	Displays a calendar in Terminal
59.	apt-get	Manages Debian-based distros
J. J. J.		package libraries