## LINUX COMMANDS CHEAT SHEET

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System			File Permission			
uname	=>	Displays Linux system information	chmod octal filename	=>	Change file permissions of the file to octal	
uname -r	=>	Displays kernel release information	Example			
uptime	->	Displays how long the system has been running including load average	chmod 777 /data/test.c	=>	Set rwx permissions to owner, group and everyone (eve one else who has access to the server)	ry-
hostname	=>	Shows the system hostname	chmod 755 /data/test.c	=>	Set rwx to the owner and r_x to group and everyone	
hostname -i	=>	Displays the IP address of the system	chmod 766 /data/test.c	=>	Sets rwx for owner, rw for group and everyone	
last reboot	=>	Shows system reboot history	chown owner user-file	=>	Change ownership of the file	
date	=>	Displays current system date and time  Query and change the System clock	chown owner-user: own file_name	er-grou	p => Change owner and group owner of the file	
cal	=>	Displays the current calendar month and day	chown owner-user:owner	er-grou	o- => Change owner and group owner of the director	ry
w	=>	Displays currently logged in users in the system	directory			
whoami	=>	Displays who you are logged in as	Network			مگ
finger username	=>	Displays information about the user	. 100110221			6
- WM// -			ip addr show	=>	Displays IP addresses and all the network interfaces	
Hardware			ip address add	=>	Assigns IP address 192.168.0.1 to interface eth0	
dmesg	=>	Displays bootup messages	192.168.0.1/24 dev eth0			
cat /proc/cpuinfo	=>	Displays more information about CPU e.g model, model	ifconfig	=>	Displays IP addresses of all network interfaces	
		name, cores, vendor id	ping host	=>	ping command sends an ICMP echo request to establish connection to server / PC	h a
cat /proc/meminfo	=>	Displays more information about hardware memory e.g. Total and Free memory	whois domain	=>	Retrieves more information about a domain name	
Ishw	=>	Displays information about system's hardware configuration	dig domain	=>	Retrieves DNS information about the domain	
Isblk	=>	Displays block devices related information	dig -x host	=>	Performs reverse lookup on a domain	
free -m	=>	Displays free and used memory in the system (-m flag indicates memory in MB)	host google.com	=>	Performs an IP lookup for the domain name	
Ispci -tv	=>	Displays PCI devices in a tree-like diagram	hostname -i wget file name	=>	Displays local IP address  Downloads a file from an online source	
Isusb -tv	=>	Displays USB devices in a tree-like diagram	netstat -pnltu	=>	Displays all active listening ports	
dmidecode	=>	Displays hardware information from the BIOS				
hdparm -i /dev/xda	=>	Displays information about disk data	Compression / Arc	hives		72
hdparm -tT /dev/xda badblocks -s /dev/xda	=>	Conducts a read speed test on device xda  Tests for unreadable blocks on disk	tar -cf home.tar home	=>	Creates archive file called 'home.tar' from file 'home'	
badbicone o raevixad		100to 101 dillocadable blooke off disk	tar -xf files.tar	=>	Extract archive file 'files.tar'	
Users			tar -zcvf home.tar.gz	=>	Creates gzipped tar archive file from source folder	
			source-folder			
id	=>	Displays the details of the active user e.g. uid, gid, and groups	gzip file	=>	Compression a file with .gz extension	
last	=>	Shows the last logins in the system	Install Packages			<b>⊕</b>
who	=>	Shows who is logged in to the system	Instant ackages			
groupadd "admin"	=>	Adds the group 'admin'	rpm -i pkg_name.rpm	=>	Install an rpm package	
adduser "Sam" userdel "Sam"	=>	Adds user Sam Deletes user Sam	rpm -e pkg_name	=>	Removes an rpm package	
usermod	=>	Used for changing / modifying user information	dnf install pkg_name	=>	Install package using dnf utility	
			Install Course (Con	:I.at	· and	-CD-
File Commands			Install Source (Con	прпас	1011)	100
ls -al	=>	Lists files - both regular & hidden files and their permis-	./configure			
		sions as well.	make			
pwd mkdir 'directory_name'	=>	Displays the current directory file path  Creates a new directory	make install			
rm file_name	=>	Removes a file	Connoh			Q
rm -f filename	=>	Forcefully removes a file	Search			T
rm -r directory_name	=>	Removes a directory recursively	grep 'pattern' files	=>	Search for a given pattern in files	
rm -rf directory_name	=>	Removes a directory forcefully and recursively	grep -r pattern dir	=>	Search recursively for a pattern in a given directory	
cp file1 file2	=>	Copies the contents of file1 to file2	locate file	=>	Find all instances of the file	
cp -r dir1 dir2	=>	Recursively Copies dir1 to dir2. dir2 is created if it does not exist	find /home/ -name "index"	=>	Find file names that begin with 'index' in /home folder	
mv file1 file2	=>	Renames file1 to file2	find /home -size	=>	Find files greater than 10000k in the home folder	
In -s /path/to/file_name link name	=>	Creates a symbolic link to file_name	+10000k			
touch file_name	=>	Creates a new file	Login			
cat > file_name	=>	Places standard input into a file	Logiii			
more file_name	=>	Outputs the contents of a file	ssh user@host	=>	Securely connect to host as user	
head file_name	=>	Displays the first 10 lines of a file	ssh -p port_number user@host	=>	Securely connect to host using a specified port	
tail file_name	=> -/	Displays the last 10 lines of a file  Encrypts a file	ssh host	=>	Securely connect to the system via SSH default port 22	
gpg -c file_name gpg file name.gpg	=>	Decrypts a file	telnet host	=>	Connect to host via telnet default port 23	
WC WC	=>	Prints the number of bytes, words and lines in a file				
xargs	=>	Executes commands from standard input	File Transfer			
			scp file1.txt server2/tmp	=>	Securely copy file1.txt to server2 in /tmp directory	
Process Related			rsync -a /home/apps /	=>	Synchronize contents in /home/apps directory with /back	кир
ps	=>	Display currently active processes	backup/		directory	
ps aux   grep 'telnet'	=>	Searches for the id of the process 'telnet'	Disk Usage			
pmap	=>	Displays memory map of processes	DISIT UNISC			
top	=>	Displays all running processes	df -h	=>	Displays free space on mounted systems	
kill pid	=>	Terminates process with a given pid	df -i	=>	Displays free inodes on filesystems	
killall proc	=>	Kills / Terminates all processes named proc	fdisk -l	=>	Shows disk partitions, sizes, and types	
pkill process-name	=>	Sends a signal to a process with its name	du -sh	=>	Displays disk usage in the current directory in a human-readable format	
bg	=>	Resumes suspended jobs in the background	findmnt	=>	Displays target mount point for all filesystems	
fg	=>	Brings suspended jobs to the foreground	mount device-path mount-point	=>	Mount a device	
fg n	=>	Brings job n to the foreground	- Marit Politic			
			Directory Traverse			

cd ..

cd

cd /test

Move up one level in the directory tree structure

Change directory to \$HOME directory

Change directory to /test directory

renice 19 PID

pgrep firefox

pstree

Makes a process run with very low priority

Visualizing processes in tree model

Find Firefox process ID