LINUX COMMAND LINE CHEAT SHEET

1 - SYSTEM INFORMATION		3 - PERFORMANCE MONITORING AND STATISTICS		
uname -a	# Display Linux system information	top	# Display and manage the top processes	
uname -r	# Display kernel release information	htop	# Interactive process viewer (top alternative)	
cat /etc /redhat-release	# Show which version of redhat installed	mpstat 1	# Display processor related statistics	
uptime	# Show how long the system has been running + load	vmstat 1	# Display virtual memory statistics	
		iostat 1	# Display I/O statistics	
hostname	# Show system host name	tail 100 /var/log/messages	# Display the last 100 syslog messages (Use /var/log/syslog for Debian based systems.)	
hostname - I	# Display the IP addresses of the host			
last reboot	# Show system reboot his tor y	tcpdump - i eth0	# Capture and display all packets on inter face eth0	
date	# Show the current date and time	tcpdump -i eth0 'por t 80'	# Monitor all traffic on por t 8 0 (HT TP)	
cal	# Show this month's calendar	Isof	# List all open files on the system	
w	# Display who is online	lsof -u user	# List files opened by user	
whoami	# Who you are logged in as	free -h	# Display free and used memor y (-h for human readable, -m for MB, -g for GB.)	
		watch df -h	# Execute "df -h", showing periodic updates	

2 - HARDWARE INFORMATION		4 - USER INFORMATION AND MANAGEMENT		
dmesg	# Display mess ages in kernel ring buffer	id	# Display the user and group ids of yourcurrent user.	
cat /proc/cpuinfo	# Display CPU information	last	# Display the last users who have logged onto the	
cat /proc/meminfo	t /proc/meminfo # Display memory information		system.	
free -h	# Display free and used memor y (-h for human readable,-m for MB, -g for GB.)	who	# Show who is logged into the system.	
		W	# Show who is logged in and what they are doing.	
Ispci -tv	# Display PCI devices	groupadd test	# Create a group named "test".	
lsusb -tv	# Display USB devices	useradd - c "John Smith"	# Create an account named john, with a comment of " John Smith" and create the user's home	
dmidecode	# Display DMI/SMBIOS (hardware info) from the BIOS	-m john	of "John Smith" and create the user's home directory.	
hdparm -i /dev/sda	# Show info about disk sda	userdel john	# Delete the john account.	
hdparm -tT /dev/sda	# Per form a read speed test on disk sda	usermod -aG sales john	# Add the john account to the sales group	
hadblacks s /day/sda	# Tost for uproadable blocks on disk sda	•	· · · · · · · · · · · · · · · · · · ·	



5 - FILE AND DIRECTORY COMMANDS

ls -al	# List all files in a long lis ting (det ailed) format
pwd	# Display the present working directory
mkdir directory	# Create a directory
rm file	# Remove (delete) file
rm -r directory	# Remove the director y and its contents recursively
rm -f file	# Force removal of file without prompting for confirmation
rm -r f directory	# Forcefully remove director y recursively
cp file1 file2	# Copy file1 to file2
cp -r source_directory destination	# Copy source_director y recursively to destination . If destination exists, copy source_director y into dest inat ion ,otherwise create dest inat ion with the contents of source_directory

Rename or move file1 to file2. If file2 is an exis ting direc tor y, move fi mv file1 file2 le1 into direc tor y file2.

In -s /path / to/ file # Create symbolic l ink to l inkname linkname

touch file # Create an empt y file or update the access and modific ation times of file.

cat file # View the content s of file
less file # Browse through a text file

mv file1 file2

head file # Display the first 10 lines of file

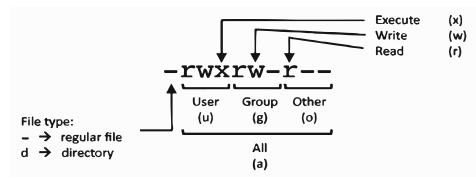
t ail file # Display the last 10 lines of file

t ail -f file # Display the last 10 lines of file and " follow " the file as it grows.

- PROCESS MANAGEMENT

6 - PROCESS MANAGEMENT		
ps s	# Display your currently running processes	
ps -ef	# Display all the currently running processes on thesystem.	
ps -ef grep processname	# Display process information for processname	
top	# Display and manage the top processes	
htop	# Interactive process viewer (top alternative)	
kill pid	# Kill process with process ID of pid	
killall processname	# Kill all processes named processname	
program &	# Star t program in the background	
bg	# Display s topped or background jobs	
fg	# Brings the most recent background job to foreground	
fg n	# Brings job n to the foreground	

7 - FILE PERMISSIONS



PERMISSION	EXAMPLE	LEGEND
UGW		U = User
rwx rwx rwx	chmod 777 filename # Use sparingly!	G = Group
rwx rwx r-x	chmod 775 filename	W = World
rwx r-x r-x	chmod 755 filename	r = Read
rw- rw- r	chmod 664 filename	w = write
rw- r r	chmod 644 filename	x = execute
		- = no access

8 - NETWORKING

ifconfig -a	# Display all net work inter faces and ip address
ifconfig eth 0	# Display eth 0 address and details
ethtool eth 0	# Quer y or control net work driver and hardware settings
ping host	# Send ICMP echo reques t to host
whois domain	# Display whois information for domain
dig domain	# Display DNS information for domain
dig -x IP_ A DDRESS	# Reverse lookup of IP_ A DDRESS
hos t domain	# Display DNS ip address for domain
hos tname - i	# Display the network address of the host name.
hos tname - I	# Display all local ip addresses
wget http://domain.com/fil	e# Download http://domain.com/file
net s t at - nutlp	# Display lis tening tcp and udp ports and
	corresponding programs



9 -	ARCHIVES (TAR FILES)		12 - SSH LOGINS	
tar cf archive.tar directory tar xf archive.tar tar czf archive.tar.gz directory tar xzf archive.tar.gz tar cjf archive.tar.bz2 direc ory	# Create tar named archive.tar containing directory. # Extract the contents from archive.tar . # Create a gzip compressed tar file name archive.tar.gz . # Extract a gzip compressed tar file. # Create a tar file with bzip2 compression	ssh host ssh user@host ssh -p port user@host	# Connect to host as your loo # Connect to host as user # Connect to host using port	
tar xjf archive.tar.bz2	# Extract a bzip2 compressed tar file.	1	3 - FILE TRANSFERS	
10 -	INSTALLING PACKAGES	/tmp scp -r server:/var/www /tm rsync -a /home /backups/ rsync -avz /home	# Secure copy file.txt to the A I # Copy *.html files from serv /tmp folder. p# Copy all files and directoric server to the current system # Synchronize /home to /bac # Synchronize files/directoric	es recursively from 's /tmp folder. kups/home es between the local
yum search keyword yum install package yum info package	# Search for a package by keyword . # Install package . # Display description and summary information about package .	server:/backups/	and remote system with com	ipression enabled
rpm - i package.rpm	# Install package from local file named package.rpm		14 - DISK USAGE	
yum remove package	# Remove/uninstall package.		14 - DISK OSAGE	
tar zxv f sourcecode.tar.gz# Install software from source code cd sourcecodE ./configure make make install		df -h df -i fdisk -l du -ah du -sh	# Show free and used space of # Show free and used inodes # Display disks partitions siz # Display disk usage for all fi human readable format # Display total disk usage off	on mounted filesystems es and types les and directories in
	11 - SEARCH	15 - [DIRECTORY NAVIGATION	
grep pattern file grep -r pattern directory locate name find /home/john -name	# Search for pattern in file # Search recursively for pattern in directry # Find files and directories by name # Find files in /home/john that start with	cd T cd cd /etc	# To go up one level of the di (Change into the parent direct # Go to the \$HOME directory # Change to the /etc directory	ctory.) Î
'prefix*' find /home -size +100M	"prefix". # Find files larger than 100MB in /home	Find more StationX https://www.stationx.net		STATION THE CYBER SECURITY COMPANY