# **Linux Commands Cheat Sheet**



## **File and Directory Management**

Command	Usage
Is	List directory contents
Is -I	Long listing format
cd <dir></dir>	Change directory
pwd	Print working directory
mkdir <dir></dir>	Create a directory
rmdir <dir></dir>	Remove empty directory
rm <file></file>	Delete file
rm -r <dir></dir>	Delete directory recursively
cp <src> <dst></dst></src>	Copy files/directories
mv <src> <dst></dst></src>	Move/rename files/directories
touch <file></file>	Create empty file
cat <file></file>	View file content
more, less	Scroll through file content
head -n <num> <file></file></num>	First n lines
tail -n <num> <file></file></num>	Last n lines
tree	Visual directory tree (install first)

# **Q** File Search and Viewing

Command	Usage
find <dir> -name <pattern></pattern></dir>	Search files by name
locate <file></file>	Fast file search (uses a database)
grep " <pattern>" <file></file></pattern>	Search inside files
grep -r " <pattern>" <dir></dir></pattern>	Recursive grep
wc -l <file></file>	Count lines
du -sh <dir></dir>	Show size of directory
df -h	Disk usage of file systems

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# User Management

Command	Usage
whoami	Show current user
id	Show user/group info
adduser <user></user>	Add new user
passwd <user></user>	Set user password
usermod -aG <group> <user></user></group>	Add user to group
deluser <user></user>	Delete user
groups	Show user groups

## **Permissions and Ownership**

Command	Usage
chmod <mode> <file></file></mode>	Change file permissions
chown <user>:<group> <file></file></group></user>	Change ownership
umask	Show/change default permission mask



### 📦 Package Management

Command	Usage
sudo apt update	Update package list
sudo apt upgrade	Upgrade installed packages
sudo apt install <pkg></pkg>	Install package
sudo apt remove <pkg></pkg>	Uninstall package
dpkg -i <pkg.deb></pkg.deb>	Install from .deb file



## System Information

Command	Usage
uname -a	Kernel info
hostname	Show/set system hostname
uptime	System uptime
free -h	Memory usage

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df -h	Disk usage
top	Running processes
vmstat	System performance
Iscpu	CPU info
Isblk	Block devices (disks)
ip a Or ifconfig	Network interfaces

## **Metworking**

Command	Usage
ping <host></host>	Check connectivity
curl <url></url>	Fetch data from URL
wget <url></url>	Download files
netstat -tulpn	List ports and services
ss -tuln	Check open ports
traceroute <host></host>	Trace route to host
dig <domain></domain>	DNS lookup
nslookup <domain></domain>	DNS info

## **Archives and Compression**

Command	Usage
tar -czf file.tar.gz dir/	Compress directory
tar -xzf file.tar.gz	Extract tar.gz
zip -r file.zip dir/	Create zip
unzip file.zip	Extract zip

## System Cleanup

Command	Usage
sudo apt autoremove	Remove unused packages
sudo apt clean	Clear cache
sudo journalctlvacuum-time=2d	Clear logs older than 2 days

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