

Basic Linux Command Lines

Package Management	
sudo apt-get update	Refresh available updates
sudo apt-get upgrade	Upgrade all packages
Sudo apt-get dist-upgrade	Upgrade Linux distribution version
sudo apt-get install package	Install package with name package
sudo apt-remove package	Remove package with name package
sudo apt purge <package>	Purge package and configuration files.
User Information	
Id	Displays user & groups of current users
sudo adduser username	To add a new user
sudo useradd -m username	To add a new user with home directory
sudo passwd username	Change password of user
sudo addgroup groupname	To add a new group
sudo usermod -aG groupname username	To add a user named "username" to the "groupname" group
File Commands	
ls	List files and directories
ls /path/to/directory	List files and directories in a specific directory
cp source_file destination	Copy files or directories
mv source destination	Move (rename) files or directories
rm file	Remove (delete) files or directories
nano filename	Use nano or vim as text editors to create or edit files
vim filename	
File Permissions	
chmod	Connect to host as your local username
chmod permissions filename	Changing permissions
chmod u+rw file	Grant read and write permissions to the owner
chmod g-x file	Remove executive permission from the Group
chmod a=rx file	Set read & execute permissions for all
Security	
sudo passwd -l <user>	Lock a user account
sudo passwd -u <user>	Unlock a user account
passwd	Change user password
Backup Application	
sudo apt install deja-dup	Deja Dup is a backup tool with secure encrypts and compress data.

Networking Troubleshooting	
ifconfig	Show network status
iwconfig	Show wireless status
sudo systemctl restart networking	Restart Networking
sudo systemctl restart networkd	Restart Networking (newer version)
sudo systemd-resolve --flush-caches	Flush DNS cache
sudo dhclient -r	Release current IP lease
sudo dhclient	Request new IP lease
sudo systemctl restart NetworkManager	Restarts network manager
Firewall	
sudo apt install ufw	Install UFW (Uncomplicated Firewall)
sudo ufw enable	Turn on the firewall
sudo ufw disable	Turn off the firewall
sudo ufw reset	Reset the firewall rules to their default
sudo ufw status	Current status and rules
sudo ufw allow 22	Allow 22 for SSH
sudo ufw allow 80	Allow 80 for HTTP
sudo ufw allow 443	Allow 443 for HTTPS
Testing Latency, Download, and Upload Speeds	
sudo apt install speedtest-cli	Internet speed test software
speedtest-cli	Run the speed test
How to Change DNS Servers	
sudo nano /etc/resolv.conf	Change DNS Servers
nameserver 8.8.8.8	Use the lines to replace the IP address with preferred DNS servers.
nameserver 8.8.4.4	
Anti-Virus Application	
sudo apt-get install clamtk	ClamTK is a GUI anti-virus app
sudo apt install clamav-daemon	Install ClamAV's daemon (clamd)
sudo freshclam	Update ClamAV's Virus Definitions
sudo systemctl start clamav-daemon	Autostart the ClamAV Daemon (clamd)
sudo systemctl enable clamav-daemon	Scan files, directories, or entire PC.
clamscan -r /path/to/scan	Recursively scan all files in directory
Gnome Extension Shells & Customizing Themes	
sudo apt-get install gnome-tweaks	Install Gnome Tweaks
Extension Manager	In Store, install extension manager
Dash to Panel	Horizontal Dock
Blur My Shell	Frosted blur effect
User Themes	Change appearance of gnome shell
www.gnome-look.org www.pling.com	Linux desktop themes and more