

# Linux Basic Commands Cheat Sheet

## User Management

<code>adduser &lt;username&gt;</code>	- Add a new user
<code>passwd &lt;username&gt;</code>	- Change user password
<code>usermod -aG &lt;group&gt; &lt;user&gt;</code>	- Add user to group
<code>deluser &lt;username&gt;</code>	- Delete a user
<code>groups &lt;user&gt;</code>	- List groups for user

## File Permissions & ACLs

<code>chmod &lt;perm&gt; &lt;file&gt;</code>	- Change file permissions
<code>chown &lt;user&gt;:&lt;group&gt; &lt;file&gt;</code>	- Change ownership
<code>getfacl &lt;file&gt;</code>	- View ACL permissions
<code>setfacl -m u:&lt;user&gt;:rwx &lt;file&gt;</code>	- Set ACL for user
<code>setfacl -x u:&lt;user&gt; &lt;file&gt;</code>	- Remove ACL for user

## Disk & Filesystem

<code>mount &lt;device&gt; &lt;dir&gt;</code>	- Mount a filesystem
<code>umount &lt;dir/device&gt;</code>	- Unmount a filesystem
<code>df -Th</code>	- Show disk usage by type
<code>du -sh *</code>	- Disk usage per folder
<code>lsblk</code>	- List block devices
<code>fdisk -l</code>	- List partitions

## Networking Advanced

<code>netstat -tulnp</code>	- Show listening ports
<code>ss -tuln</code>	- Check open ports
<code>nmap &lt;host&gt;</code>	- Scan host ports (requires nmap)
<code>traceroute &lt;host&gt;</code>	- Trace route to host
<code>dig &lt;domain&gt;</code>	- DNS lookup

## Systemd & Services

<code>systemctl start &lt;service&gt;</code>	- Start a service
<code>systemctl stop &lt;service&gt;</code>	- Stop a service
<code>systemctl restart &lt;service&gt;</code>	- Restart a service
<code>systemctl status &lt;service&gt;</code>	- Check service status
<code>systemctl enable &lt;service&gt;</code>	- Enable service on boot
<code>systemctl disable &lt;service&gt;</code>	- Disable service on boot

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## Logs & Monitoring

<code>journalctl</code>	- View system logs
<code>journalctl -u &lt;service&gt;</code>	- Logs for specific service
<code>dmesg</code>	- Kernel ring buffer messages
<code>uptime</code>	- Show system uptime
<code>vmstat</code>	- System performance stats

## Package Management (Advanced)

<code>dpkg -i &lt;package&gt;.deb</code>	- Install a .deb file
<code>dpkg -r &lt;package&gt;</code>	- Remove a .deb package
<code>apt-cache search &lt;pkg&gt;</code>	- Search for packages
<code>apt-mark hold &lt;pkg&gt;</code>	- Prevent package from updating
<code>apt-mark unhold &lt;pkg&gt;</code>	- Allow package updates

## Archiving & Compression

<code>tar -czvf &lt;file&gt;.tar.gz &lt;dir&gt;</code>	- Create a compressed tarball
<code>tar -xzvf &lt;file&gt;.tar.gz</code>	- Extract tar.gz archive
<code>zip -r &lt;file&gt;.zip &lt;dir&gt;</code>	- Create a zip archive
<code>unzip &lt;file&gt;.zip</code>	- Extract a zip archive

## Scripting & Automation

<code>crontab -e</code>	- Edit cron jobs
<code>crontab -l</code>	- List user's cron jobs
<code>at &lt;time&gt;</code>	- Schedule one-time task
<code>bash &lt;script&gt;.sh</code>	- Run shell script
<code>chmod +x &lt;script&gt;.sh</code>	- Make script executable