Linux Basic Commands Cheat Sheet

grep Command

```
grep 'pattern' file.txt                          - Search for pattern in
file
grep -i 'pattern' file.txt                       - Case-insensitive search
grep -v 'pattern' file.txt                       - Invert match (exclude
pattern)
grep -r 'pattern' dir/                           - Recursive search in
directory
grep -n 'pattern' file.txt                       - Show line numbers
grep -l 'pattern' *                              - List filenames with
matches
grep -A 3 'pattern' file.txt                     - Show 3 lines after match
grep -B 2 'pattern' file.txt                     - Show 2 lines before match
```

find Command

```
find . -name '*.txt'                             - Find all .txt files
find /dir -type f -name '*.log'                  - Find log files
find . -type d                                   - Find directories only
find . -mtime -1                                 - Files modified in last 24
hours
find . -size +10M                                - Find files larger than
10MB
find . -empty                                    - Find empty files or
directories
find . -exec rm {} \;                            - Run command on found
files
find . -user username                            - Find files by owner
```

rsync Command

```
rsync -av source/ destination/                   - Sync directories (archive
& verbose)
rsync -z source/ dest/                           - Sync with compression
rsync -a --delete source/ dest/                  - Sync and delete extra
files in dest
rsync -e ssh user@host:/path dest/               - Sync from remote via SSH
rsync -n -av source/ dest/                       - Dry-run to preview
changes
rsync --progress source/ dest/                   - Show progress during
```

Linux Basic Commands Cheat Sheet

```
transfer
rsync -r source/ dest/                                    - Recursive sync (without
preserving metadata)
```