Linux Basic Commands Cheat Sheet

sed Command Basics

```
sed 's/old/new/' file.txt                       - Replace first occurrence per
line
sed 's/old/new/g' file.txt                       - Replace all occurrences per
line
sed -n '2p' file.txt                             - Print only the 2nd line
sed -n '5,10p' file.txt                          - Print lines 5 to 10
sed -e '1,3d' file.txt                           - Delete lines 1 to 3
```

In-place Editing

```
sed -i 's/foo/bar/' file.txt                     - Edit file in place
sed -i.bak 's/foo/bar/' file.txt                 - Backup before in-place edit
```

Inserting and Appending

```
sed '3i\inserted text' file.txt                  - Insert before 3rd line
sed '5a\appended text' file.txt                  - Append after 5th line
```

Using Patterns

```
sed '/pattern/d' file.txt                        - Delete lines matching pattern
sed '/pattern/s/foo/bar/' file.txt               - Substitute only on matching
lines
sed '/^#/d' file.txt                             - Delete comment lines (start
with #)
sed '/^$/d' file.txt                             - Delete blank lines
```

Advanced Substitution

```
sed 's/\([0-9]\{3\}\)/[\1]/' file.txt            - Group and format using regex
sed 's/.*/[&]/' file.txt                         - Surround each line with
brackets
sed 's/[a-z]/X/g' file.txt                       - Replace all lowercase letters
with X
```