

GarraTT's Linux & Bash Cheatsheet

A practical Linux and Bash reference for servers, development, and daily terminal work. Focused on navigation, files, processes, networking, and scripting basics.

Navigation and Files

Task	Command	Example
Where am I	pwd	pwd
List files	ls	ls -la
Change dir	cd	cd /var/www
Create file	touch	touch index.html
Create dir	mkdir	mkdir -p logs/archive

File Operations

Action	Command	Example
Copy	cp	cp file.txt backup.txt
Move/Rename	mv	mv old.txt new.txt
Delete file	rm	rm file.txt
Delete dir	rm -r	rm -rf cache/
Permissions	chmod	chmod 644 config.php

Viewing Files

Need	Command	Example
View	cat	cat file.txt
Paged view	less	less access.log
Head/Tail	head/tail	tail -f error.log
Search	grep	grep "error" *.log

Processes

Task	Command	Example
List processes	ps	ps aux
Live monitor	top/htop	top
Kill process	kill	kill -9 1234
Background	&	npm run build &
Jobs	jobs/fg/bg	fg %1

Networking

Need	Command	Example
Check IP	ip	ip a
Test connectivity	ping	ping google.com
HTTP request	curl	curl -I https://gcampton.com
Download	wget	wget https://example.com/file.zip
Ports	ss/netstat	ss -tulpn

Disk and System

Task	Command	Example
Disk usage	df	df -h
Folder size	du	du -sh .
Memory	free	free -h
Uptime	uptime	uptime

Permissions and Ownership

Concept	Use	Example
User/group	chown	chown www-data:www-data file
Numeric perms	chmod	chmod 755 script.sh
Readable map	rwX	r=4 w=2 x=1
Recursive	-R	chmod -R 755 public/

Bash Basics

Pattern	Use	Example
Variables	Store values	NAME="Garratt"
Echo	Print	echo "\$NAME"
Command sub	Reuse output	FILES=\$(ls wc -l)
If	Conditional	if [-f file]; then echo ok; fi
For loop	Iterate	for f in *.log; do echo \$f; done

Good Habits

Practice	Why	Tip
Tab complete	Fewer mistakes	Always use it
History	Repeat commands	Ctrl + R
Dry runs	Avoid disasters	Use ls before rm
Least privilege	Security	Avoid sudo unless needed
Logs	Debugging	tail -f logs