

# Linux Commands for AWS + Node.js Developers

## 1. Basic System Navigation

Command	Purpose
pwd	Show current directory path
ls	List files and folders
ls -l	List with details
ls -a	Show hidden files
cd foldername	Move into a folder
cd ..	Go back one level
clear	Clear terminal screen
history	Show all previously used commands

## 2. File & Directory Operations

Command	Purpose
mkdir foldername	Create a folder
rmdir foldername	Delete an empty folder
rm -r foldername	Delete folder with files
touch file.txt	Create an empty file
cp file1 file2	Copy file
mv old.txt new.txt	Rename or move file
rm file.txt	Delete a file
cat file.txt	View file content
nano file.txt	Edit file using nano editor

## 3. System & User Management

Command	Purpose
whoami	Show current user
sudo command	Run command as admin/root
adduser username	Add new user
passwd username	Set password for user
exit	Logout from session

## 4. Software Installation & Updates

Command	Purpose
sudo apt update	Update available packages list
sudo apt upgrade	Upgrade installed packages
sudo apt install packagename	Install new software
sudo apt remove packagename	Uninstall software
node -v / npm -v	Check Node.js / npm version

## 5. Permissions & Ownership

Command	Purpose
ls -l	See permissions
chmod 755 file	Change permission (read/write/execute)
chown user:group file	Change ownership

## 6. Networking & AWS EC2

Command	Purpose
ifconfig / ip addr	Check IP address
ping google.com	Test internet connectivity
curl localhost:3000	Check your Node.js app
netstat -tuln	List active ports
sudo systemctl status nginx	Check Nginx service status
sudo systemctl restart nginx	Restart Nginx

## 7. Process Management

Command	Purpose
ps aux	List running processes
top	View CPU/memory usage
kill PID	Stop a process by ID
sudo reboot	Restart instance
sudo shutdown now	Power off instance

## 8. Logs & Debugging

Command	Purpose
tail -f /var/log/nginx/access.log	View live Nginx access logs
tail -f /var/log/nginx/error.log	View Nginx error logs
journalctl -u nginx	View Nginx service logs

cat /var/log/syslog	View general system log
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## 9. AWS CLI

Command	Purpose
aws configure	Configure AWS credentials
aws s3 ls	List all S3 buckets
aws ec2 describe-instances	List EC2 instances
aws s3 cp file s3://bucketname/	Upload file to S3

## 10. Node.js & Deployment

Command	Purpose
node app.js	Run Node.js app
pm2 start app.js	Run app in background
pm2 list	List running apps
pm2 logs	View logs
pm2 restart all	Restart all apps
pm2 startup	Auto start on reboot