

```
** NODE JS - BASIC COMMANDS **

# Check Node.js version
node -v

# Check npm version
npm -v

# Run a JavaScript file
node app.js

# Start Node REPL (interactive shell)
node

# Exit REPL
.exit

** NODE JS - PROJECT SETUP **

# Initialize new project (interactive)
npm init

# Initialize project with defaults
npm init -y

# Install package
npm install express

# Install specific version
npm install express@4.18.2

# Install package globally
npm install -g nodemon

# Remove package
npm uninstall express

# Install all dependencies from package.json
npm install

** NODE JS - PACKAGE MANAGEMENT **

#List installed packages
npm list

# List global packages
npm list -g --depth=0

# Show package info
npm info express

# Check outdated packages
npm outdated

# Update packages
npm update

# Audit for vulnerabilities
npm audit

# Fix vulnerabilities automatically
npm audit fix
```

```
** NODE JS - SCRIPTS **
```

```
# Run script defined in package.json  
npm run start
```

```
# Run custom script  
npm run dev
```

```
# Run test script  
npm test
```

```
# Run script with arguments  
npm run start -- --port=3000
```

```
** NODE JS - NPM CACHE & CONFIG **
```

```
# Clean npm cache  
npm cache clean --force
```

```
# Verify npm cache  
npm cache verify
```

```
# Show npm config  
npm config list
```

```
# Set npm config value  
npm config set init-author-name "Your Name"
```

```
** NODE JS - NVM (NODE VERSION MANAGER) **
```

```
# Install Node version  
nvm install 18
```

```
# List installed versions  
nvm list
```

```
# Use specific Node version  
nvm use 18
```

```
# Show current version  
nvm current
```

```
# Set default version  
nvm alias default 18
```

```
** NODE JS - DEBUGGING **
```

```
# Run app in debug mode  
node inspect app.js
```

```
# Run with break on first line  
node --inspect-brk app.js
```

```
# Enable debug logging  
DEBUG=* node app.js
```

```
** NODE JS - PROCESS MANAGEMENT **
```

```
# Run app with nodemon (auto-restart)
nodemon app.js

# Pass environment variables (Linux/macOS)
PORT=3000 node app.js

** NODE JS - FILE SYSTEM & PATH **

# Run script and print current directory
node -e "console.log(__dirname)"

# Execute inline JavaScript
node -e "console.log('Hello World!)"

** NODE JS - NETWORKING / SERVER **

# Start simple HTTP server (Node one-liner)
node -e "require('http').createServer((req, res)=>res.end('OK')).listen(3000)"

# Check if server is running on port
ss -tulnp | grep 3000

# Test local server
curl http://localhost:3000

** NODE JS - BUILD & TOOLING **

# Run TypeScript compiler
npx tsc

# Run package without installing globally
npx create-react-app myapp

# Run local binary from node_modules
npx nodemon app.js

** NODE JS - ENVIRONMENT VARIABLES **

# Create .env file (manual)
touch .env

# Run app with dotenv
node -r dotenv/config app.js

# Print environment variables
node -e "console.log(process.env)"

** NODE JS - LOGGING & MONITORING **

# Print logs to console
console.log("message")

# Run app and log output to file
node app.js > output.log

# Append logs to file
node app.js >> output.log
```