

# Comprehensive Node.js Commands

## 1. Check Node.js Version

Command: `node -v`

## 2. Check NPM (Node Package Manager) Version

Command: `npm -v`

## 3. Install Node.js

Command: Download from <https://nodejs.org/>

## 4. Initialize a New Node.js Project

Command: `npm init`

## 5. Initialize with Default Values

Command: `npm init -y`

## 6. Install a Package Locally

Command: `npm install <package-name>`

## 7. Install a Package Globally

Command: `npm install -g <package-name>`

## 8. Install a Specific Version of a Package

Command: `npm install <package-name>@<version>`

## 9. Uninstall a Package

Command: `npm uninstall <package-name>`

## 10. Save Package as Dependency

Command: `npm install <package-name> --save`

## **11. Save Package as Development Dependency**

Command: `npm install <package-name> --save-dev`

## **12. List Installed Packages**

Command: `npm list`

## **13. View Package Details**

Command: `npm info <package-name>`

## **14. Run a Node.js Application**

Command: `node app.js`

## **15. Run with Debugging**

Command: `node --inspect app.js`

## **16. Run Node.js REPL**

Command: `node`

## **17. Run Scripts from `package.json`**

Command: `npm start` or `npm run <script-name>`

## **18. Install Express.js**

Command: `npm install express`

## **19. Create a Basic Express Server**

Command: `node app.js` (with Express setup)

## **20. Check for Outdated Packages**

Command: `npm outdated`

## **21. Update All Packages**

Command: `npm update`

## **22. Check for Security Vulnerabilities**

Command: `npm audit`

## **23. Fix Vulnerabilities**

Command: `npm audit fix`

## **24. Create a `package-lock.json` File**

Command: `npm install`

## **25. Install All Dependencies**

Command: `npm install`

## **26. Install `nodemon` for Auto Restart**

Command: `npm install -g nodemon`

## **27. Run the Application with Nodemon**

Command: `nodemon app.js`

## **28. Handle Errors in Node.js**

Command: `try...catch` block example

## **29. Enable Debugging in Node.js**

Command: `node --inspect-brk app.js`

## **30. Set Environment Variables**

Command: `process.env.VAR_NAME = value`

## **31. Use `.env` File**

Command: Install dotenv: `npm install dotenv`

## **32. Publish a Package to npm**

Command: `npm login` & `npm publish`

### **33. Unpublish a Package from npm**

Command: `npm unpublish <package-name> --force`