

Node.js Installation and Configuration Guide

Step 1: Download Node.js

1. Visit the official website: <https://nodejs.org/en>
2. Download the recommended LTS version for MacOS.

Step 2: Installation

1. Run the downloaded **.pkg** installer and follow the prompts.
2. Use the default installation path: `/usr/local/bin/node` and `/usr/local/lib/node_modules`
3. Click **“Continue”**, agree to the license, and then click **“Install”**. After installation, click **“Close”**.

Step 3: Environment Configuration (Optional)

Configure environment variables if necessary:

1. Open Terminal.
2. If you want to install the npm package without **sudo**, you can configure it additionally:

```
mkdir ~/.npm-global  
npm config set prefix '~/.npm-global'
```

3. Edit your shell configuration file:

For zsh (macOS default): `nano ~/.zshrc`

For bash: `nano ~/.bash_profile`

4. Add the following line if not present:

```
export PATH="/usr/local/bin:$PATH"
```

5. Save and close the file **(Ctrl+O, Enter, Ctrl+X)**.

6. Apply the changes by running:

```
source ~/.zshrc (or source ~/.bash_profile)
```

Step 4: Verification

1. Close and reopen Terminal.
2. Verify Node.js installation by entering: `node -v`
3. Verify npm installation by entering: `npm -v`

Both commands should display their respective version numbers.

Troubleshooting

If commands are not recognized:

- Ensure you edited and sourced the correct shell configuration file.
- Restart Terminal after environment variable changes.
- If problems persist, consider reinstalling Node.js via Homebrew or using nvm (Node Version Manager).

Notes: Install Homebrew

```
/bin/bash -c "$(curl -fsSL  
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```