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.

Step 2: Installation

- 1. Run the downloaded .msi file and click "Next".
- 2. Customize the installation path
 - It is recommended to install Node.js outside the C: drive
 - For example: D:\nodejs or E:\Program Files\nodejs according to your preference
 - Alternatively, you can use the default path: C:\Program Files\nodejs
- 3. Click "Next", then "Install", and finally click "Finish" after completion.
- 4. Create two new folders in your Node.js installation directory:
 - node_global (for globally installed packages)
 - node_cache (for npm cache)

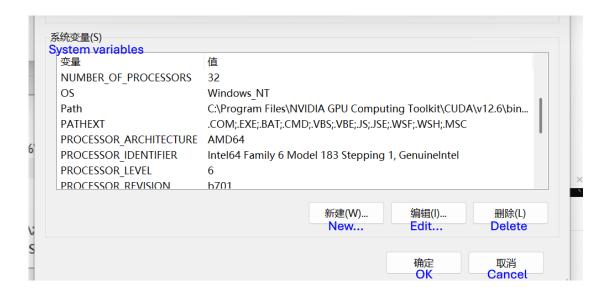
For example: D:\nodejs\node_global and D:\nodejs\node_cache

Step 3: Environment Configuration

Configure System Variables

- 1. Right-click on "This PC" or "My Computer" and select "Properties".
- Click on "Advanced system settings".
- 3. In the System Properties Window, click the "Environment Variables" button
- 4. Under "System variables" section, click "New" and add the following:
 - Variable name: NODE_HOME
 - Variable value: D:\nodejs (or your actual installation path)
- 5. Click "OK"

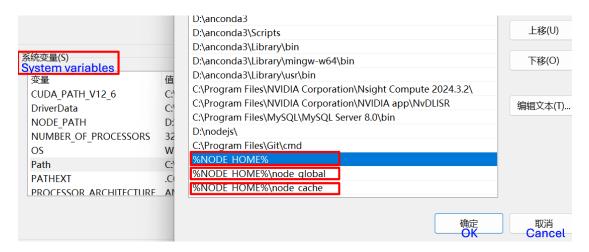
(Figures are shown below.)





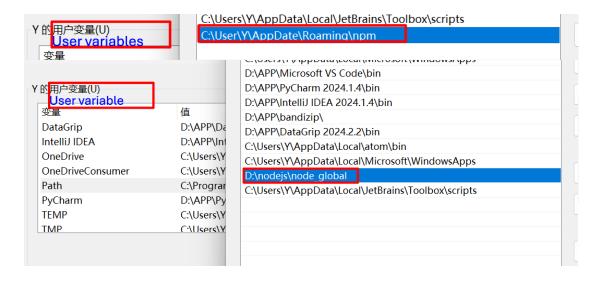
Add to Path Variable

- 1. In the same "System Variables" section, find and select "Path", then click "Edit"
- 2. Click "**New**" and add the following entries one by one:
 - %NODE_HOME%
 - %NODE_HOME%\node_global
 - %NODE_HOME%\node_cache
- Click "**OK**"



Fix User Variables

- 1. In the "User Variables" section, find the "Path" variable and click "Edit".
- 2. If you see C:\Users\[username]\AppData\Roaming\npm, remove it and add D:\nodejs\node_global (or your equivalent path).
- 3. Click "**OK**" to save changes.



Open Command Prompt as Administrator and run following commands:

- npm config set prefix "D:\nodejs\node global"
- npm config set cache "D:\nodejs\node_cache"

Step 4: Verification

- 1. Close and reopen Command Prompt (ensure you're not using PowerShell)
- 2. Verify Node.js installation by entering: node -v
- 3. Verify npm installation by entering: npm -v
- 4. Both commands should display their respective version numbers.

Troubleshooting

- If commands are not recognized, ensure you've restarted Command Prompt after setting environment variables.
- You may need to restart your computer for environment variable changes to take effect.
- If you encounter permission errors, run Command Prompt as Administrator.