

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)

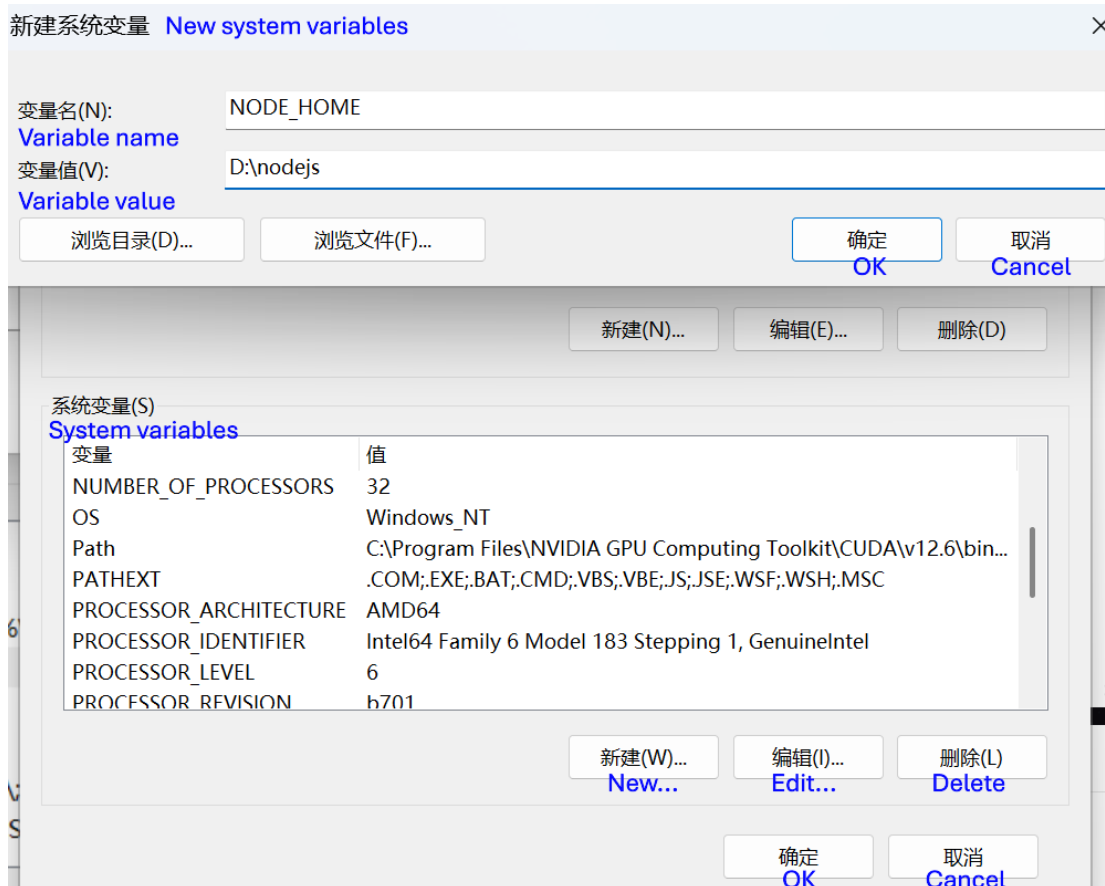
For example: **D:\nodejs\node_global** and **D:\nodejs\node_cache**

Step 3: Environment Configuration

Configure System Variables

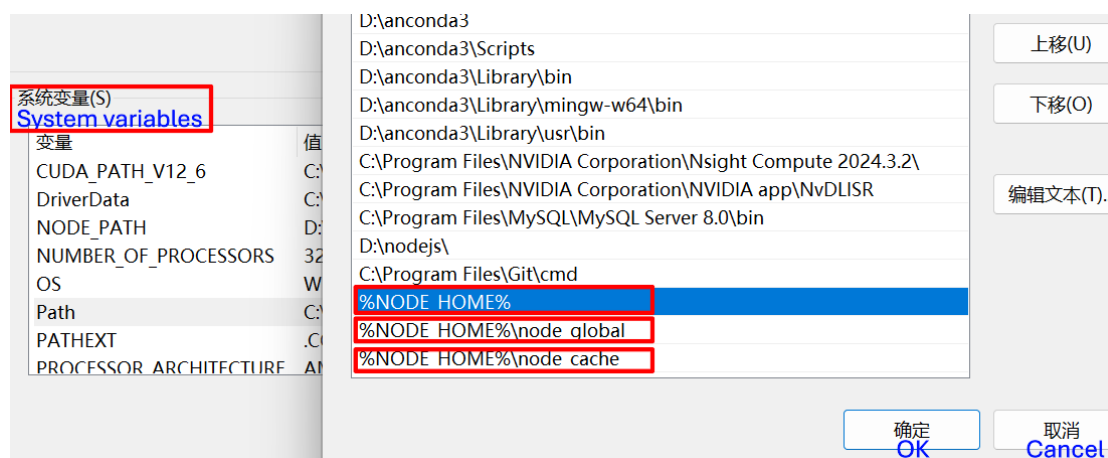
1. Right-click on **"This PC"** or **"My Computer"** and select **"Properties"**.
2. Click on **"Advanced system settings"**.
3. In the System Properties Window, click the **"Environment Variables"** button
4. Under **"System variables"** section, click **"New"** and add the following:
 - Variable name: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

(Figures are shown below.)



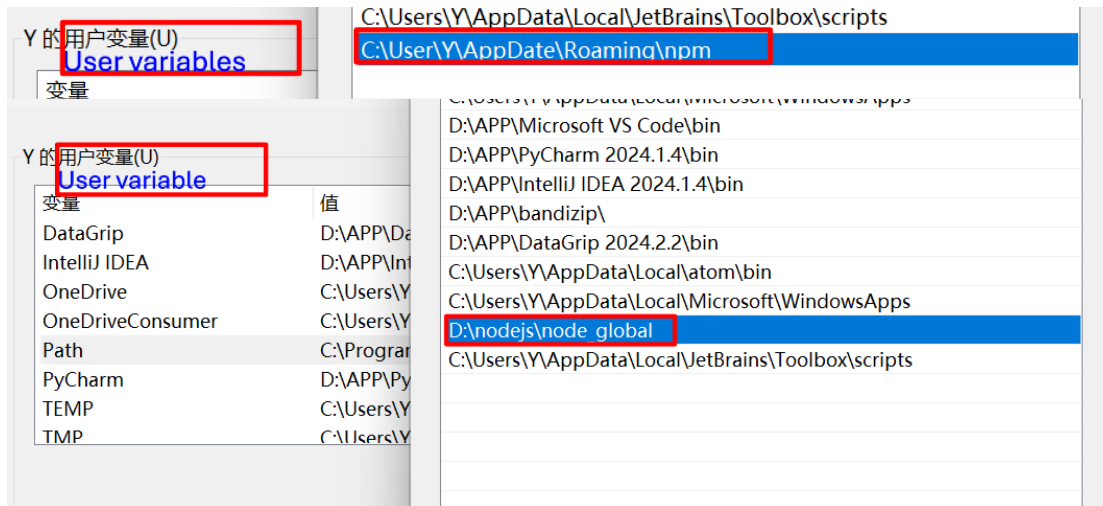
Add to Path Variable

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**
3. 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.



Configure NPM default Directories

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.