

Cline中使用mcp

讲师：尚硅谷宋红康（江湖人称：康师傅）

官网：www.atguigu.com

douyin账号：是康师傅呀(尚硅谷)

1、Cline介绍

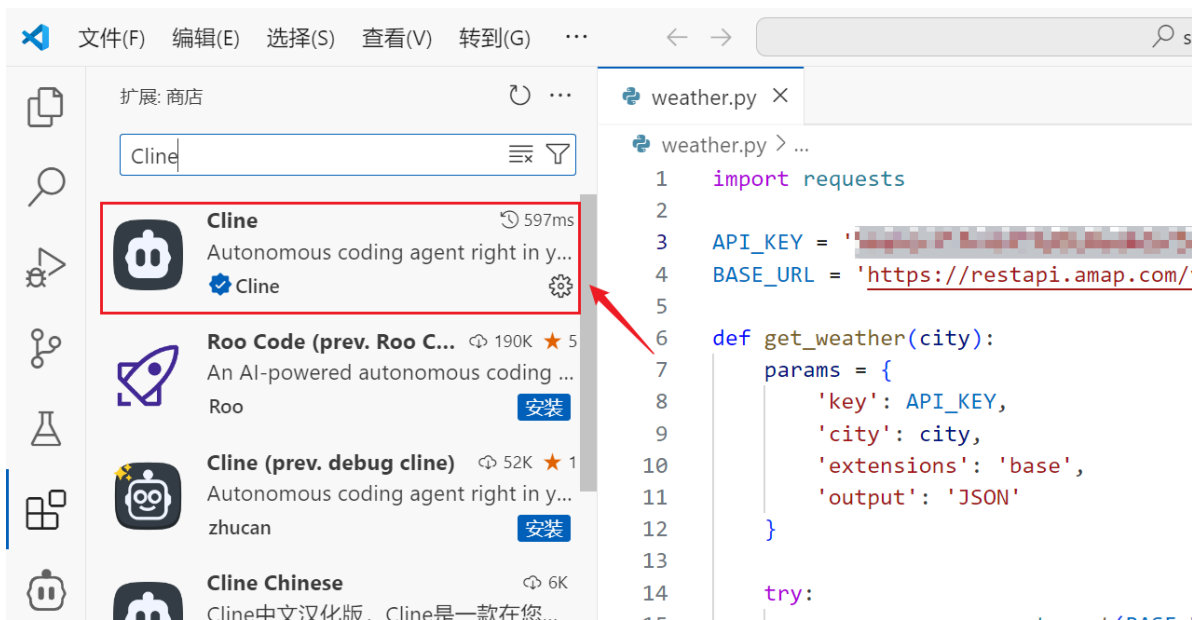
在开发者社区，Cline 被誉为“程序员的副驾驶”。它不仅能写代码，还能帮你测试和部署，省去大量重复劳动。

Cline 的核心优势在于它的任务分解能力。你给它一个复杂需求，比如“写个电商网站后台”，它会自动拆成小步骤，逐一搞定代码、数据库和 API 调用。MCP 的加持让它能控制浏览器、编辑文件甚至运行终端命令，像个真正的助手。最骚的是，它还能通过 MCP 调用外部工具，比如从服务器拉取模板，或者直接推送代码到 GitHub。界面简洁，命令行风格，上手后效率爆表。

2、使用MCP详解

步骤1：安装VSCode和Cline

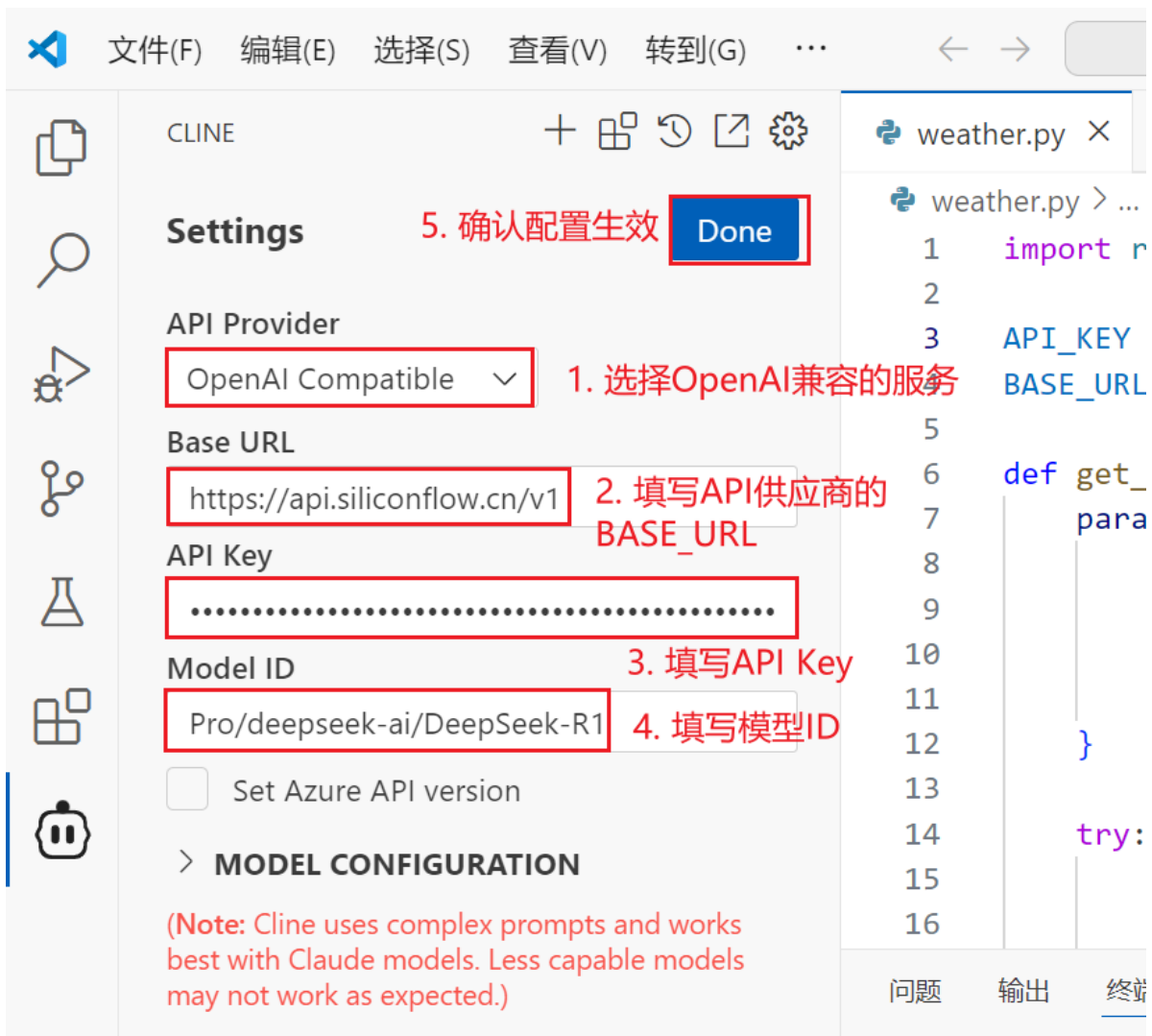
Cline是VSCode的一个插件，在安装VSCode的基础上，在插件市场安装Cline即可。



步骤2: Cline的设置

1) 设置使用的大模型: 点击右上角的齿轮配置API信息

举例1: 如下是使用硅基流动的平台:



举例2：如下使用的是DeepSeek官方平台：

Settings

Done

Plan Mode

Act Mode

API Provider

DeepSeek

DeepSeek API Key

.....

This key is stored locally and only used to make API requests from this extension.

Model

deepseek-reasoner

✗ Does not support images

✗ Does not support computer use

✓ Supports prompt caching

Max output: 8,000 tokens

Cache writes price: \$0.55/million tokens

Cache reads price: \$0.14/million tokens

Output price: \$2.19/million tokens

Custom Instructions

说明文字，请使用中文

These instructions are added to the end of the system prompt sent with every request.

2) 查看支持的服务：



Thanks to [Claude 3.7 Sonnet's](#) agentic coding capabilities, I can handle complex software development tasks step-by-step. With tools that let me create & edit files, explore complex projects, use a browser, and execute terminal commands (after you grant permission), I can assist you in ways that go beyond code completion or tech support. I can even use MCP to create new tools and extend my own capabilities.

RECENT TASKS

MARCH 28, 9:02 PM

帮我实现一个weather.py程序，可以通过高德提供的API-key获取城市天气

Tokens: 110.2m 1335.7k

MARCH 28, 6:32 PM

帮我实现一个weather.py程序，可以通过高德提供的API-key获取城市天气

Tokens: 19.4m 1315.6k

MARCH 7, 8:43 PM

基于高德提供的天气接口实现一个前后端分离的项目，使用Python Flask框架完成后端开发，使用前端三剑客HTML、CSS和JavaScript完成...

Tokens: 175.6m 12.6m

[View all history](#)



☒ Auto-approve: Read, Edit, Browser, MCP >

Type your task here...



openai-compat:Pro/deepseek-ai/De...

Plan

Act

☒ Auto-approve: Read, Edit, Commands... ▾

Auto-approve allows Cline to perform the following actions without asking for permission. Please use with caution and only enable if you understand the risks.

☒ Read files and directories

Allows access to read any file on your computer.

读文件和目录的权限

☒ Edit files

Allows modification of any files on your computer.

创建和编辑文件的权限

☒ Execute safe commands

Allows execution of safe terminal commands. If the model determines a command is potentially destructive, it will still require approval.

执行安全命令的权限

☒ Use the browser

Allows ability to launch and interact with any website in a headless browser.

联网搜索权限

☒ Use MCP servers

Allows use of configured MCP servers which may modify filesystem or interact with APIs.

MCP服务调用权限

Max Requests: 20

最大请求数，是对于单个问题Cline向LLM发送的API请求次数的最大值

Cline will automatically make this many API requests before asking for approval to proceed with the task.

☒ Enable Notifications

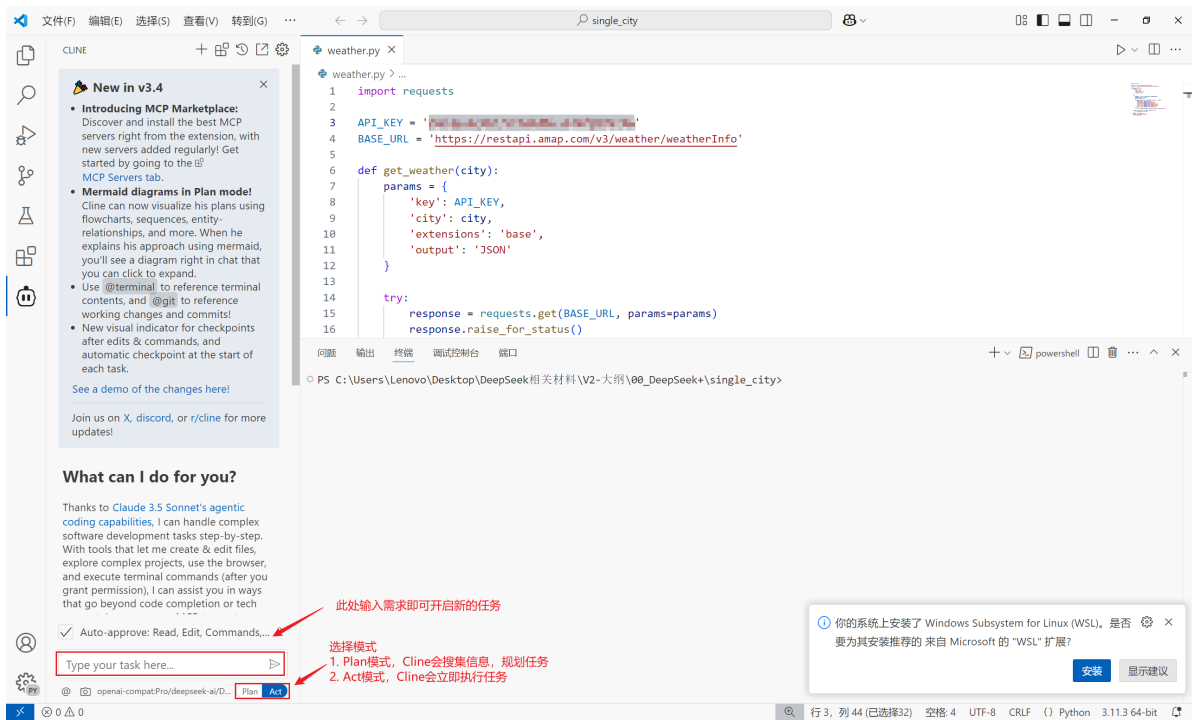
Receive system notifications when Cline requires approval to proceed or when a task is completed.

启用提示，当Cline向用户请求执行某些操作或任务完成时允许发送提示

默认全选即可。

最多请求数量可根据实际需求灵活调整。

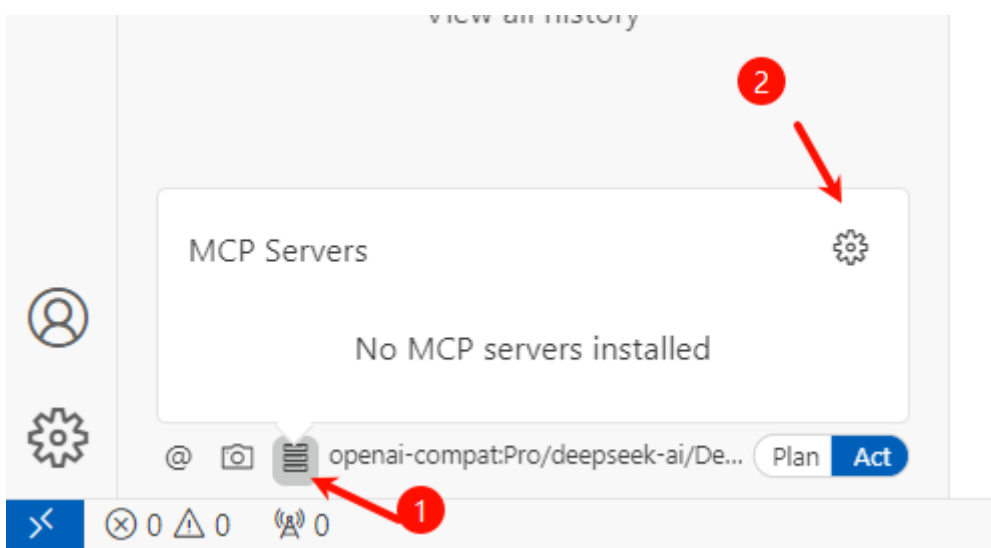
3) 设置选择模式：



步骤3：明确需求

- 1 现在交给你一个任务，编写一个北京一日游的出行攻略
- 2 1、在工作目录D:\ClineWorkspace下创建一个新的文件夹，命名为"北京旅行"。分别从数据库beijing_trip中获取表location_foods当地美食表、subway_trips地铁线路表的结构、数据信息。然后提取出其中的数据，放入两个txt中进行保存。
- 3 2、根据txt中的内容，生成一个精美的html前端展示北京地铁交通及周边美食的页面，并存放在该目录下

步骤4：配置MCP Server





Cline中配置MCP如下：

```
1  {
2    "mcpServers": {
3      "mysql-db-mcp-server": {
4        "command": "uvx",
5        "args": [
6          "mysql-db-mcp-server"
7        ],
8        "env": {
9          "MYSQL_HOST": "localhost",
10         "MYSQL_USER": "root",
11         "MYSQL_PASSWORD": "abc123",
12         "MYSQL_DATABASE": "beijing_trip",
13         "MYSQL_READONLY": "false"
14       }
15     },
16     "desktop-commander": {
17       "command": "cmd",
18       "args": [
19         "/c",
20         "npx",
21         "-y",
22         "@smithery/cli@latest",
23         "run",
24         "@wonderwhy-er/desktop-commander",
25         "--key",
26         "8ce02901-a503-4520-8ebc-a2a362e93993"
27       ]
28     }
29   }
30 }
```

其中，desktop-commander来自于：

<https://smithery.ai/server/@wonderwhy-er/desktop-commander>

Quickstart

Installation

Claude Desktop

MacOS: ~/Library/Application\ Support/Claude/claude_desktop_config.json

Windows: %APPDATA%/Claude/claude_desktop_config.json

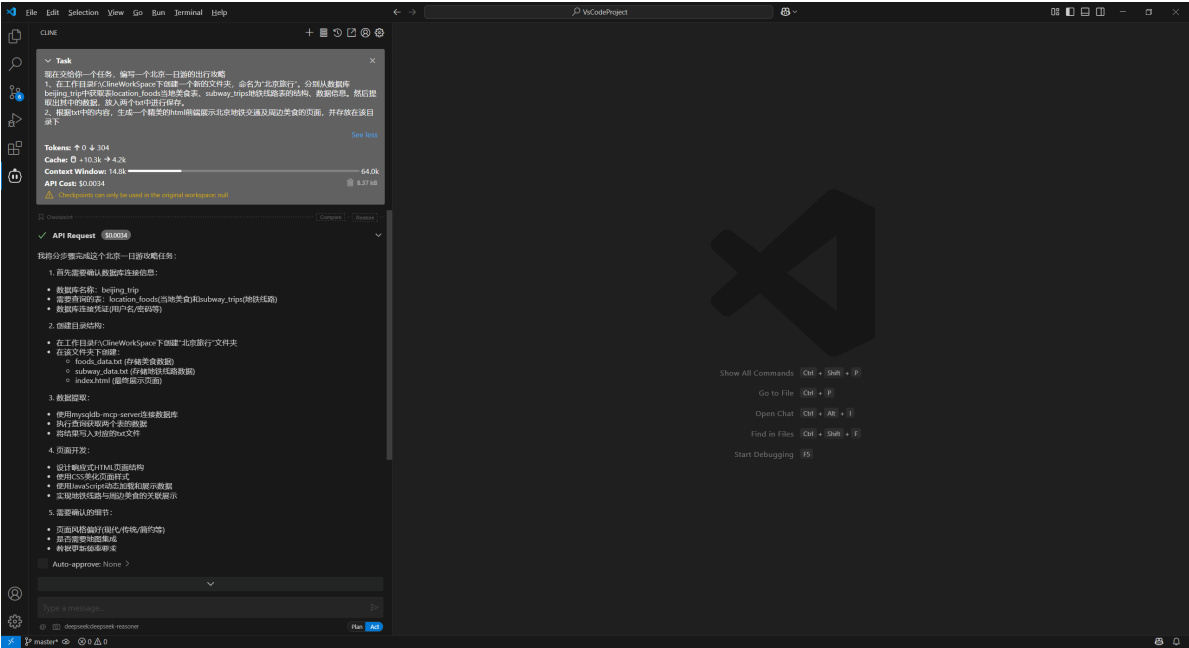
► Development/Unpublished Server Configuration

▼ Published Server Configuration

```
{
  "mcpServers": {
    "mysqldb-mcp-server": {
      "command": "uvx",
      "args": [
        "mysqldb-mcp-server"
      ],
      "env": {
        "MYSQL_HOST": "localhost",
        "MYSQL_USER": "root",
        "MYSQL_PASSWORD": "password",
        "MYSQL_DATABASE": "[optional]",
        "MYSQL_READONLY": "true"
      }
    }
  }
}
```

步骤5：功能测试

首先提出我们的问题，这里更改了一下需求，要求其对一个数据库内表结构进行自行的识别，并提取出需要的信息用于后续的操作。



之后其根据规划的流程，首先完成数据库中表结构的查询，然后查询出需要的数据，再创建文档用于保存数据。

