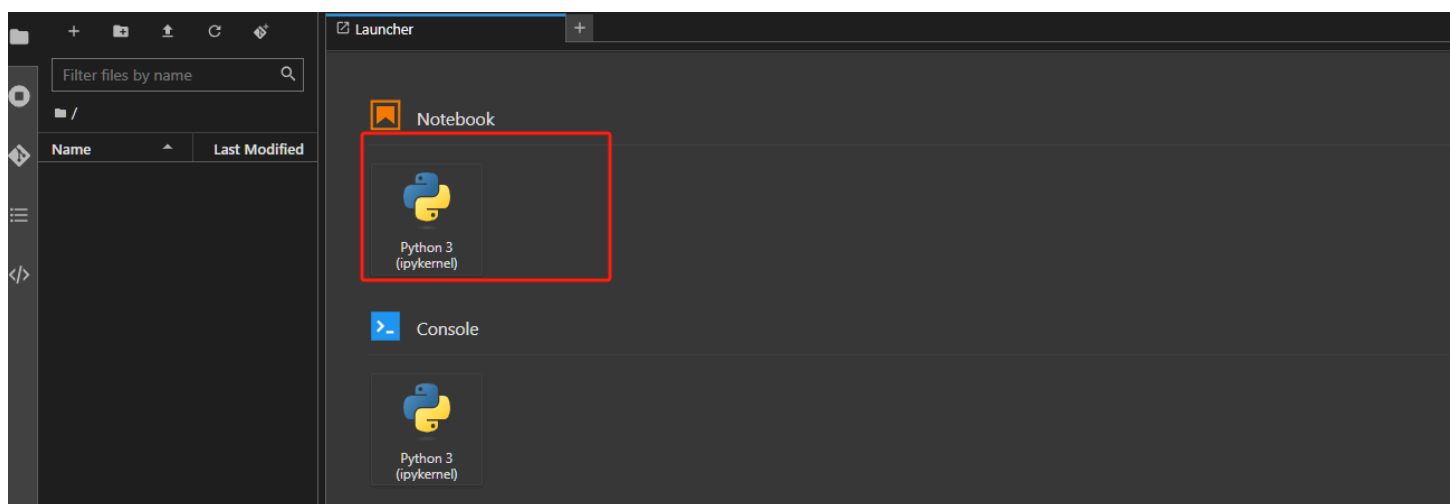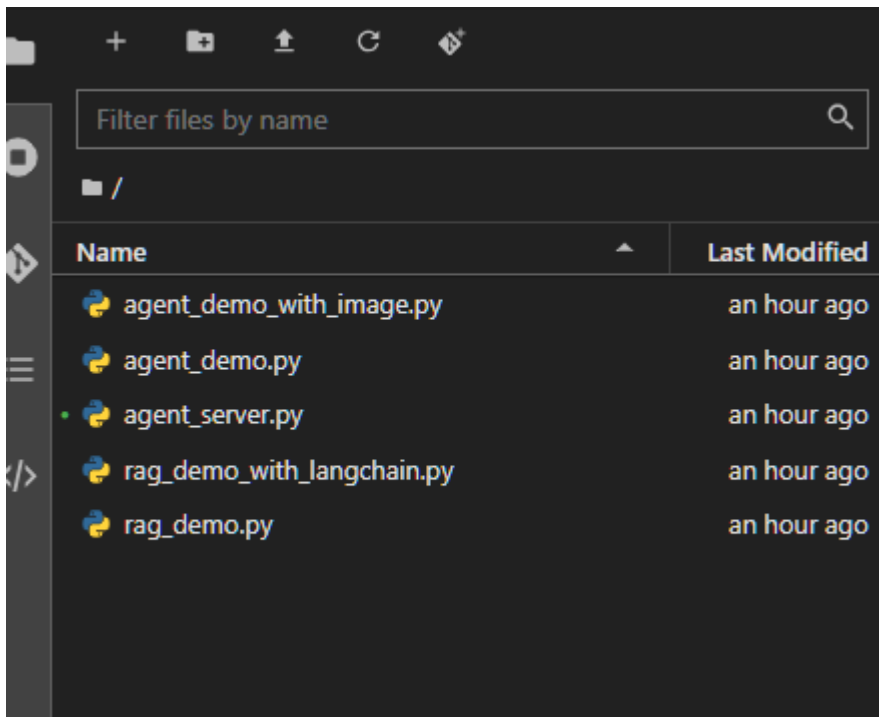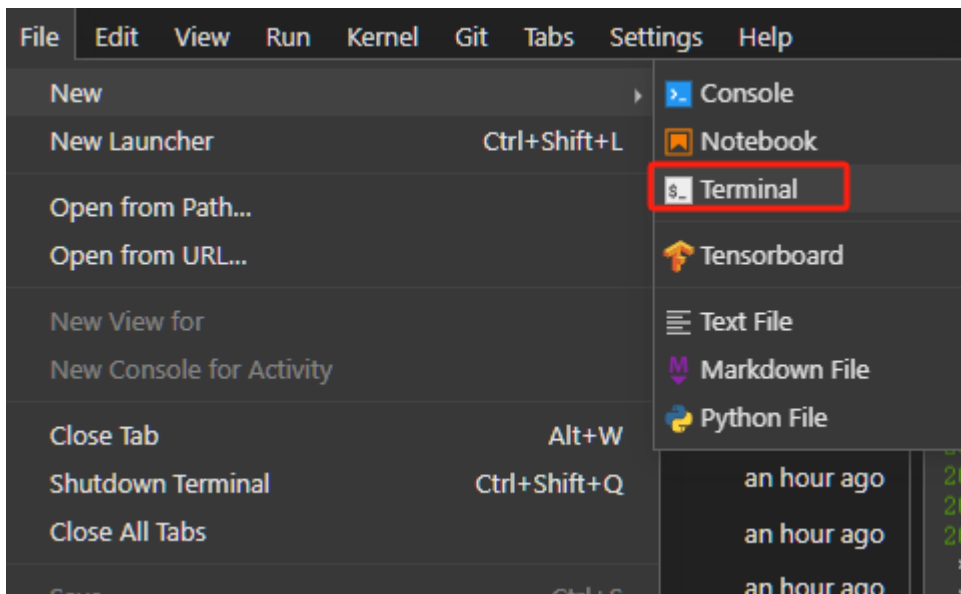# 1. 启动我的Notebook

2. 把文件一个一个复制到里面。类似下面这样：

3. 打开一个终端：

3.1 修改环境变量：

执行命令打开环境变量文件：

```
vim ~/.bashrc
```

在文件的最后，加上：

```
export OPENAI_API_KEY="sk-xxxx"

export OPENAI_BASE_URL="https://xxxx"
```

保存文件之后，执行命令：

```
source ~/.bashrc
```

4. 下载ngrok工具：

首先得注册账号，登录 https://dashboard.ngrok.com/get-started/setup/linux

依次在终端执行以下命令：

Installation

Apt   Download   Snap

Install ngrok via Apt with the following command:

```
curl -s https://ngrok-agent.s3.amazonaws.com/ngrok.asc \
  | sudo tee /etc/apt/trusted.gpg.d/ngrok.asc >/dev/null \
  && echo "deb https://ngrok-agent.s3.amazonaws.com buster main" \
  | sudo tee /etc/apt/sources.list.d/ngrok.list \
  && sudo apt update \
  && sudo apt install ngrok
```

Run the following command to add your authtoken to the default **ngrok.yml** configuration file.

```
ngrok config add-authtoken 2gfT0ke5XhFDgIPr...            ...ohVpCn
```

Deploy your app online

Ephemeral Domain   Static Domain

Put your app online at ephemeral domain Forwarding to your upstream service. For example, if it is listening on port http://localhost:8080, run:

```
ngrok http http://localhost:8080
```

Once running, your endpoints will be listed on the endpoints page.

执行完之后你会看到notebook中下面的界面：

```
ngrok

Try our new Traffic Inspector Dev Preview: https://ngrok.com/r/ti

Session Status                online
Account                       XINJ_ZH (Plan: Free)
Version                       3.9.0
Region                        Japan (jp)
Latency                       50ms
Web Interface                 http://127.0.0.1:4040
Forwarding                    https://6d34-120-27-137-238.ngrok-free.app -> http://localhost:8080

Connections                   ttl     opn     rt1     rt5     p50     p90
                              0       0       0.00    0.00    0.00    0.00
```

5. 打开一个新的终端，运行程序：

5.1 安装所需的依赖库

```
pip install pypdf pdfminer.six openai langchain langchain_openai agentscope Chroma chromadb Spee
```

5.2 启动Flask程序

```
python3 agent_server.py
```

运行成功后看到如下界面：

6. 在电脑浏览器中访问：

后面加接口就可以调用了，类似下面这样：

https://dsw-gateway-cn-hangzhou.data.aliyun.com/dsw-465976/proxy/8080/user_query?query=hello

dsw-gateway-cn-hangzhou.data.aliyun.com/dsw-465976/proxy/8080/user_query?query=hello

G Google 必应 百度一下，你就知道

美观输出 ☑

```
{
  "content": "Hello! How can I help you today?",
  "id": "6c691a03b8ec476686bfe1e86456f092",
  "name": "myAgent",
  "role": "assistant",
  "timestamp": "2024-05-19 11:03:48",
  "url": null
}
```