Ollama

> **Demonstration environment**

Development board: Jetson Orin series motherboard

SSD: 128G

> **Tutorial scope**

Development board model: Jetson series, Raspberry Pi 5

Ollama is an open source tool that aims to simplify the deployment and operation of large language models, allowing users to use high-quality language models in a local environment.

Large Language Model (LLM)

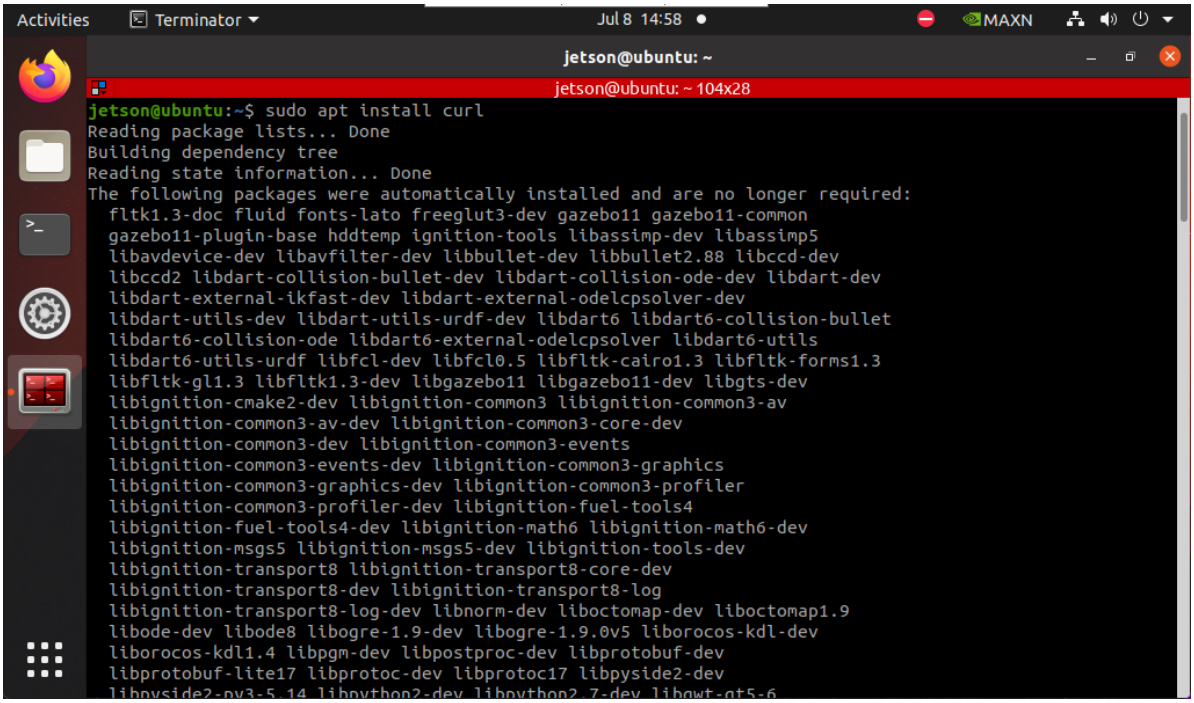
Large Language Models (LLM) is a type of advanced text generation system based on artificial intelligence technology. Its main feature is that it can learn and understand human language through large-scale training data and can generate natural and fluent text.

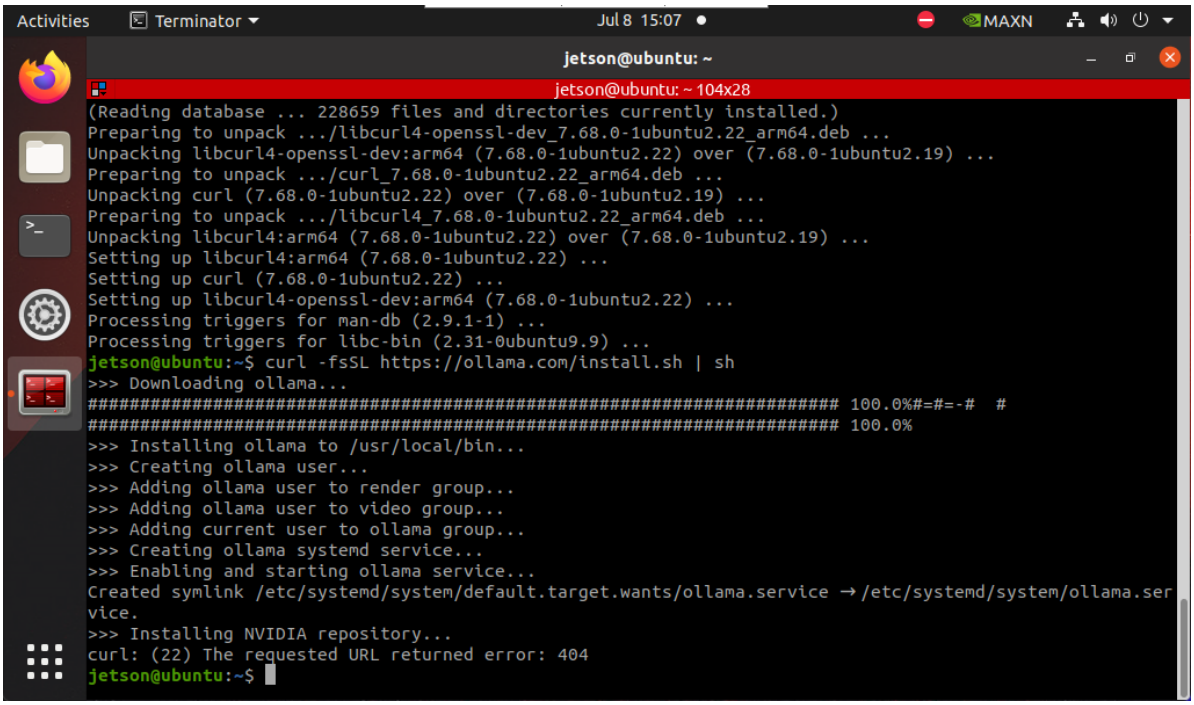
Ollama installation

The tutorial demonstrates the use of scripts to install Ollama on the Jetson Orin series motherboard.

Script installation

```
sudo apt install curl
curl -fsSL https://ollama.com/install.sh | sh
```

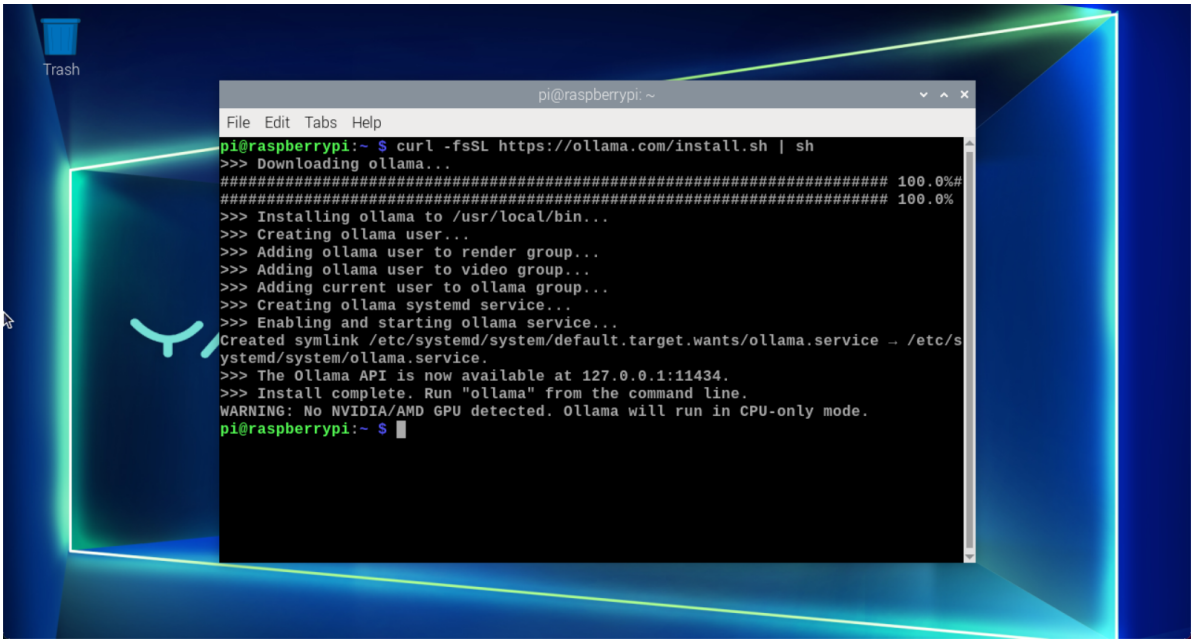




The entire installation process takes a long time, please wait patiently!

> The prompt curl: (22) The requested URL returned error: 404 appears, which can be ignored!

Raspberry Pi 5 The motherboard installation steps are the same.

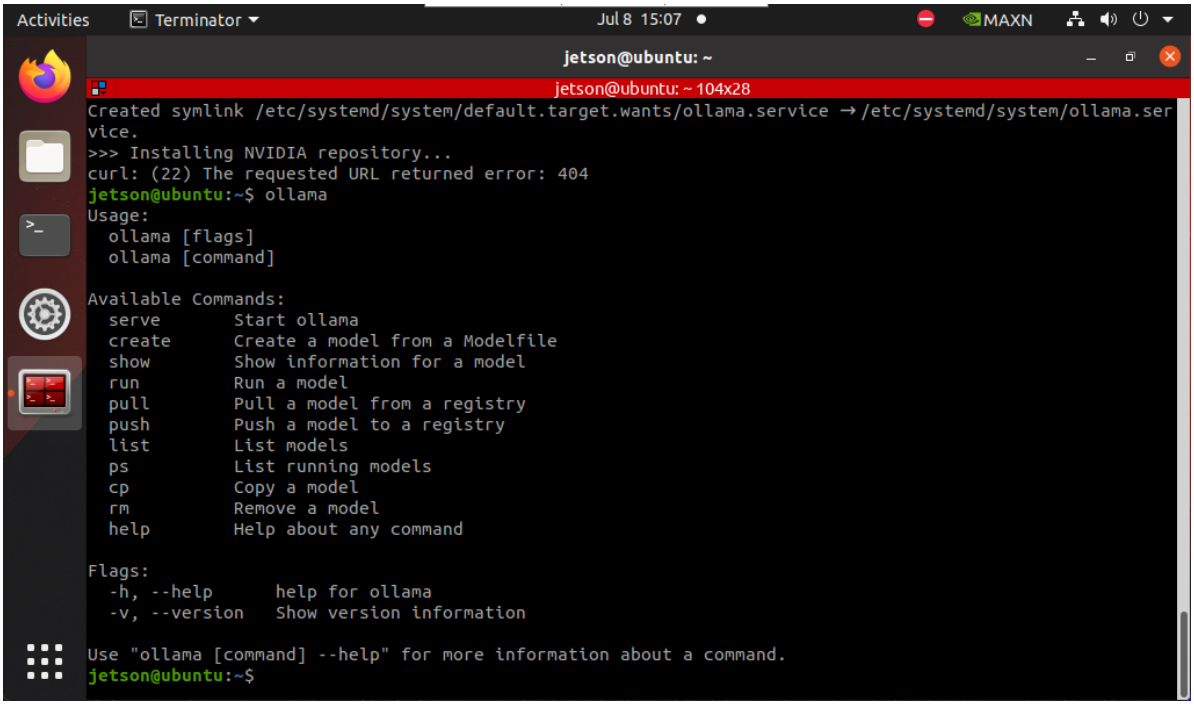


The Raspberry Pi terminal displays "Install complete", indicating that Ollama has been successfully installed!

> The warning is that NVIDIA/AMD GPU is not detected, and Ollama will run in CPU mode. We can ignore this prompt directly.

Ollama Usage

You can see the prompt by typing ollama in the terminal:



Command	Function
ollama serve	Start ollama
ollama create	Create a model from a model file
ollama show	Display model information
ollama run	Run the model
ollama pull	Pull the model from the registry
ollama push	Push the model to the registry
ollama list	List the models
ollama ps	List the running models
ollama cp	Copy the model
ollama rm	Delete the model
ollama help	Get help information about any command
ollama -v	View ollama version number

Ollama uninstall

- Delete service

```
sudo systemctl stop ollama
sudo systemctl disable ollama
sudo rm /etc/systemd/system/ollama.service
```

- Delete file

```
sudo rm $(which ollama)
```

- Delete model and service user and group

```
sudo rm -r /usr/share/ollama
sudo userdel ollama
sudo groupdel ollama
```

References

> **Ollama**

Official website: https://ollama.com/

GitHub: https://github.com/ollama/ollama