

ubuntu24.04 ?? ragflow + ???????? + docker ????????????????cpu ?gpu?? ?????????1

????? ? Ubuntu 24.04????? + Docker + CPU-only? GPU?? ?

“ RAGFlow + ???? DashScope???? + Ollama/???? +
Docker Compose

???????????? “CPU RAG?? ”?

????????????????????

????????

- RAGFlow? RAG??
- Elasticsearch?? /??
- Ollama???? embedding/??
- ???? DashScope? LLM ???
- Docker Compose ???

??Ubuntu 24.04 ??????????????

1. ?????APT?????

```
sudo cp /etc/apt/sources.list /etc/apt/sources.list.bak  
sudo sed -i 's|http://.*ubuntu.com|https://mirrors.aliyun.com|g' /etc/apt/sources.list
```

```
sudo apt update && sudo apt upgrade -y
```

2. ???????

```
sudo apt install -y \  
git curl wget vim \  
ca-certificates gnupg lsb-release \  
htop net-tools
```

3. Docker + Compose????24+?

?? Docker???????

```
curl -fsSL https://get.docker.com | bash  
sudo usermod -aG docker $USER  
newgrp docker
```

??

```
docker -v  
docker compose version
```

4. ??????RAGFlow???

```
sudo sysctl -w vm.max_map_count=262144  
echo "vm.max_map_count=262144" | sudo tee -a /etc/sysctl.conf
```

???? RAGFlow?CPU???

1. ?????

```
git clone https://github.com/infiniflow/ragflow.git
cd ragflow
```

2. ?? CPU docker-compose

❏ docker ❏❏

```
cd docker
```

❏ compose❏

```
ls
```

❏❏❏❏❏

- docker-compose.yml
- .env
- service_conf.yaml.template

3. ?? .env?????

❏❏

```
vim .env
```

❏❏❏❏❏ CPU❏❏❏

```
# CPU❏❏
RAGFLOW_MODE=cpu

# ❏❏
RAGFLOW_PORT=80

# ❏❏GPU
USE_GPU=false
```

4. ?? RAGFlow

```
docker compose up -d
```

□□□□□□

- Elasticsearch
- RAGFlow backend
- worker
- frontend

5. ?????

```
docker ps
```

□□□

```
http://□□□□□□IP
```

?????????????DashScope LLM?

□□□□□□□□

1. ?? API Key

□□□□□□

- <https://bailian.aliyun.com/>

□□□

- API Key □ DashScope □
-

Provider: DashScope

Model: text-embedding-v3

??B??? Ollama?CPU?

☐ Ollama☐

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

☐☐☐

```
ollama serve
```

☐ embedding☐

```
ollama pull bge-m3
```

RAGFlow?? Ollama?

```
http://host.docker.internal:11434
```

△ CPU☐☐☐☐☐☐☐☐☐☐

embedding ☐

??Docker CPU???????

☐☐☐

```
docker-compose.yml
```

☐☐

```
deploy:
  resources:
    limits:
      cpus: "4"
```

memory: 8G

????????????

1. Elasticsearch ???

```
vm.max_map_count < 262144
```

☐☐☐

```
sudo sysctl -w vm.max_map_count=262144
```

2. CPU??

☐☐☐

- ☐ qwen-turbo
- embedding ☐ text-embedding-v3
- ☐☐☐☐☐☐

3. Docker ???

☐☐☐

- 16GB RAM☐☐☐☐
- ☐☐ 32GB

????????????

```
# 1. ☐☐docker  
curl -fsSL https://get.docker.com | bash
```

```
# 2. clone
git clone https://github.com/infiniflow/ragflow.git
cd ragflow/docker

# 3. 配置
sudo sysctl -w vm.max_map_count=262144

# 4. 启动
docker compose up -d
```

????????????CPU???

组件	配置
RAG	RAGFlow
LLM	qwen-turbo
Embedding	text-embedding-v3
索引	Elasticsearch
部署	Docker Compose
OS	Ubuntu 24.04

????????????????

????????

- ? 1. ??? docker-compose??Nginx + HTTPS?
- ? 2. RAGFlow + ?? prompt ??????????????????
- ? 3. Elasticsearch ???CPU ????? 3-5??

???????? CPU/?? /???????? “????”