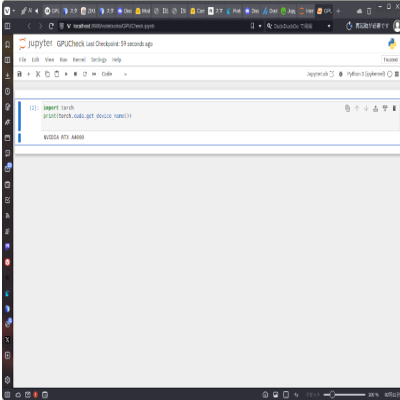




GPU Jupyter Notebook Docker

Description

Jupyter Notebook Docker GPU

Jupyter Notebook Docker GPU

```
import torch
print(torch.cuda.get_device_name())
```

Jupyter Notebook Docker GPU

Jupyter Notebook Docker GPU

```
$ mkdir jupyter-docker
$ cd jupyter-docker
```

Jupyter Notebook Docker GPU

```
Dockerfile
docker-compose.yml
jupyter_notebook_config.py
notebooks/
requirements.txt
```

Dockerfile

```
FROM nvidia/cuda:12.6.0-runtime-ubuntu22.04
```

```
RUN apt update \
    && apt install -y \
    git\
    python3\
    python3-pip
```

```
RUN apt-get autoremove -y && apt-get clean && \
rm -rf /usr/local/src/*
```

```
WORKDIR /notebooks
```

```
COPY requirements.txt /tmp/
COPY jupyter_notebook_config.py /tmp/
```

```
RUN pip3 install --upgrade pip
RUN pip install --no-cache-dir -r /tmp/requirements.txt
```

```
CMD ["jupyter", "notebook", "--port", "8888", "--no-browser", "--allow-root", "--con
```

docker-compose.yml

```
version: "3"
services:
  tensorflow:
    build: .
    runtime: nvidia
    environment:
      - NVIDIA_VISIBLE_DEVICES=all
    volumes:
      - ./notebooks:/notebooks
    ports:
      - 8888:8888
```

jupyter_notebook_config.py

```
c.NotebookApp.ip = '0.0.0.0'
c.NotebookApp.token = 'xxx'
```

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requirements.txt

```
torch
torchvision
torchaudio
tensorflow-gpu
transformers
jupyter
notebook
```

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\$ mkdir notebooks

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\$ docker compose up

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Category

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Tags

1. AI
2. Docker
3. GPU
4. Jupyter Notebook
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Date Created

2024å¹10æ??5æ?¥

Author

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