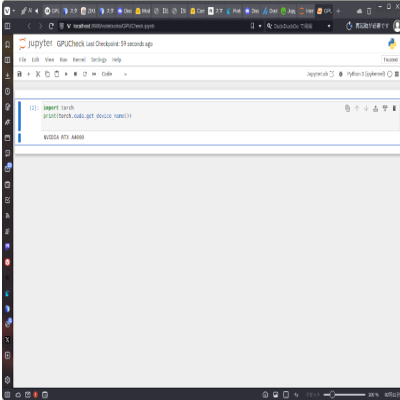




GPU Jupyter Notebook Docker

Description

Jupyter Notebook is a web-based interactive computing environment. It allows you to write and execute code in a notebook format, which is a combination of code and text. Jupyter Notebook is often used for data science and machine learning tasks. It can be run locally or in the cloud. In this tutorial, we will show you how to run Jupyter Notebook on a GPU using Docker.

To run Jupyter Notebook on a GPU, you need to install Docker and NVIDIA Container Toolkit. Once installed, you can create a Docker container with the following command:

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

» Jupyter Notebook

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

Jupyter Notebook

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

Dockerfile

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

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

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

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

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

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

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

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\$ mkdir notebooks

Docker composeã³ã??ã³ã??ã•\$ã³ã³ã??ã??ã??èµ·ã??ã•¾ã?

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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

kazuo-tsubaki