

得到如下输出表明成功。

```
root@ubuntu:~# sudo docker run --rm --gpus all nvidia/cuda:11.0.3-base-ubuntu20.04 nvidia-smi
Unable to find image 'nvidia/cuda:11.0.3-base-ubuntu20.04' locally
11.0.3-base-ubuntu20.04: Pulling from nvidia/cuda
d5fd17ec1767: Already exists
ea7643e57386: Already exists
622a04926279: Already exists
18fcb7509e42: Already exists
21e5db7c1fa2: Already exists
Digest: sha256:a76eddd79a7ec423decf72eaaa348a69a98362615aa10565011f439940142471
Status: Downloaded newer image for nvidia/cuda:11.0.3-base-ubuntu20.04
Fri May 27 09:27:54 2022

+-----+
| NVIDIA-SMI 470.129.06    Driver Version: 470.129.06    CUDA Version: 11.4    |
+-----+-----+
| GPU   Name               Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf    Pwr:Usage/Cap|     Memory-Usage | GPU-Util  Compute M. |
|=====+=====+
| 0    NVIDIA GeForce ...   Off      | 00000000:01:00.0  On |          3%      Default |
| N/A   45C    P8      13W /  N/A   | 530MiB /  7973MiB |              MIG M. |
+-----+-----+

+-----+
| Processes:                 |
| GPU   GI       CI           PID  Type   Process name                      GPU Memory |
| ID   ID       ID           |                  | Usage     |
+-----+-----+

```

3、最后再次创建容器指定 `--gpus all`，问题解决，容器创建成功。

```
root@ubuntu:~# docker run --net=host -v $HOME/W_SiamFC_imple:$HOME/W_SimaFC_imple -it --gpus all --name SiamFC-repro nvidia/cuda:11.4.0
-cudnn8-devel-ubuntu20.04 /bin/bash
root@/:/# ls -la
total 80
drwxr-xr-x 1 root root 4096 May 27 09:36 .
drwxr-xr-x 1 root root 4096 May 27 09:36 ..
-rwxr-xr-x 1 root root 0 May 27 09:36 .dockerenv
-rw-r--r-- 1 root root 16047 May 20 07:33 NGC-DL-CONTAINER-LICENSE
lrwxrwxrwx 1 root root 7 Apr 26 19:49 bin -> usr/bin
drwxr-xr-x 2 root root 4096 Apr 15 2020 boot
drwxr-xr-x 5 root root 440 May 27 09:36 dev
drwxr-xr-x 1 root root 4096 May 27 09:36 etc
drwxr-xr-x 1 root root 4096 May 27 09:36 home
lrwxrwxrwx 1 root root 7 Apr 26 19:49 lib -> usr/lib
lrwxrwxrwx 1 root root 9 Apr 26 19:49 lib32 -> usr/lib32
lrwxrwxrwx 1 root root 9 Apr 26 19:49 lib64 -> usr/lib64
lrwxrwxrwx 1 root root 10 Apr 26 19:49 libx32 -> usr/libx32
drwxr-xr-x 2 root root 4096 Apr 26 19:49 media
drwxr-xr-x 2 root root 4096 Apr 26 19:49 mnt
drwxr-xr-x 2 root root 4096 Apr 26 19:49 opt
dr-xr-xr-x 499 root root 0 May 27 09:36 proc
drwx----- 2 root root 4096 Apr 26 19:52 root
drwxr-xr-x 1 root root 4096 May 27 09:36 run
lrwxrwxrwx 1 root root 8 Apr 26 19:49 sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 Apr 26 19:49 srv
dr-xr-xr-x 13 root root 0 May 27 05:29 sys
drwxrwxrwt 2 root root 4096 Apr 26 19:52 tmp
drwxr-xr-x 1 root root 4096 Apr 26 19:49 usr
drwxr-xr-x 1 root root 4096 Apr 26 19:52 var
```

Enjoy it!

分类: 软件安装

标签: Docker, Ubuntu, NVIDIA Container Toolkit

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- 上一篇: [Ubuntu 20.04安装Docker及相关设置](#)
- 下一篇: [VS Code 连接访问本地主机上的Docker容器](#)

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