



Apptainer

2021年 11月 Singularity [] Linux [] Apptainer [] Apptainer []
 Docker [] HPC [] Apptainer [] Singularity Image File (SIF) [] Singularity
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[] Singularity Image File (SIF) []



[] `/fs00/software/singularity-images/` [] SIF []



[] Docker Hub [] SIF []

- [] Docker Hub [] `apptainer build ubuntu.sif`

`docker://docker.nju.edu.cn/library/ubuntu`

- `apptainer build ngc_cuda.sif`

`docker://ngc.nju.edu.cn/nvidia/cuda`

- `apptainer build abc.sif docker-archive://abc.tar`

1. 1.1

1. `apptainer build --fix-perms --sandbox build`

`docker://docker.nju.edu.cn/library/ubuntu`

2. `apptainer shell build/`

3. `apt` `make`

4. `exit`

5. `apptainer build abc.sif build`

`root`

CI

`git.nju.edu.cn` CI/CD `kaniko` Docker `apptainer`
`build ocr.sif docker://reg.nju.edu.cn/yaoge123/ocr`

[CI/CD](#) [Docker](#)

2. 2.1

`apptainer exec --nv cuda.sif app`

```
#BSUB -q 62v100ib
#BSUB -gpu num=4

apptainer exec --nv cuda.sif app
```

3. 3.1

- `--nv` NVIDIA GPUs & CUDA

- `--bind/-B src[:dest[:opts]]` 



- [Apptainer](#)
- [Apptainer User Guide](#)
- [Docker Hub](#)
- [NVIDIA NGC](#)

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