



# Apptainer

2021 11 Singularity Linux Apptainer Apptainer  
Docker HPC Apptainer Singularity Image File (SIF) Singularity  
Singularity Singularity Singularity



Singularity Image File (SIF)



/fs00/software/singularity-images/ SIF



Docker Hub SIF

- Docker Hub `apptainer build ubuntu.sif docker://ubuntu`
- NVIDIA NGC `apptainer build ngc_cuda.sif docker://ngc.nju.edu.cn/nvidia/cuda`

- `docker save` `xxxxxxxxxx`

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

`xxxx`

1. `xxxxxx` `apptainer build --fix-perms --sandbox build docker://ubuntu`
2. `xxxxxx` `apptainer shell build/`
3. `xxxxxxxxxxxx` `apt` `make`
4. `xxxx` `exit`
5. `xxxxxx` `SIFxxxxxx` `apptainer build abc.sif build`

`xxxxxx` `rootxxxxxxxxxxxxxxxxxxxxxxxxxxxx`

## CIxxxx

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

`xxxxxxxxxx` `CI/CDxxxxxx` `Dockerxx`

`xxxx`

`xxxxxxxxxx`

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

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

`xxxx`

- `--nv` `xxxx` `NVIDIA GPUs & CUDA`
- `--bind/-B src[:dest[:opts]]` `xxxxxxxxxx`

`xxxx`

- [Apptainer](#)
  - [Apptainer User Guide](#)
  - [Docker Hub](#)
  - [NVIDIA NGC](#)
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Revision #29

Created 9 May 2021 23:05:29 by Yao Ge

Updated 9 June 2024 13:11:48 by Yao Ge