



# unpacked.infn.it: CernVM-FS as a Container Hub for

- The [CernVM File System](#) (CernVM-FS) is a scalable, reliable and low- maintenance software distribution service
- [Harbor](#) is an an open source trusted cloud native registry project that stores, signs, and scans content (for container images acts as Docker Hub)
- INFN Cloud deployed both services in (pre)production for their users
- CernVM-FS can be used to distribute container images (see [unpacked.cern.ch](#)), minutes after these have been pushed to the Harbor registry
- Images are readily available to run with [apptainer](#) (formerly singularity), including base operating systems, experiment software stacks, explorative tools (ML etc.) and user analyses
- No need to wait minutes for pulling and decompressing the complete image before run
- [User experience](#):  

```
docker push harbor.cloud.infn.it/testbed-dm/my-image:1.0
```

```
apptainer exec '/cvmfs/unpacked.infn.it/harbor.cloud.infn.it/testbed-dm/my-image:1.0' /bin/bash
```
- An experimental solution is also in place for running containers in Kubernetes
- Send me a email ([verlato@infn.it](mailto:verlato@infn.it)) if interested in testing/using [unpacked.infn.it](#)

