



CernVM 2019 Workshop Summary – Containers

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- **New features in CernVM-FS**

- Container publishing service, experimentally deployed at `unpacked.cern.ch`
- Shrinkwrap: facilitates bulk export of `/cvmfs` into container image for HPC and benchmarking
- Singularity fuse plugin: demonstrator, off-loads `mount()` to singularity engine
Planned for singularity version 3.4 / `cvmfs` version 2.7

Critical point: how seamless is the integration?

- **Containers Take-Away Messages**

- Containers are still gaining momentum, in particular **kubernetes for services**, and **docker for user containers**

Examples: ATLAS user containers, FCC software, LCG releases, UCSD

- Container-related components in CernVM-FS becoming more important
- Question of CSI plugin support plan was raised, for the moment in IT-CM
- Promising future: EL8 has full support for user-space only containers
(name spaces + overlays)