

Singularity news

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WLCG Containers WG Meeting

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Singularity news since last meeting

- singularity-3.1, 3.2 releases
 - 3.2.1-1 now standard in EPEL
 - A couple relevant bugs found
 - Cannot bind from /cvmfs or other read-only filesystem when running unprivileged
 - --home not honored with 'mount home = no' option set
 - Thinking about making a quick 3.2.1-1.1 with first problem patched, perhaps both
- singularity-3.3.0 release candidate 1 available
 - Adds --fakeroot option (plus a bunch of other features and bug fixes)
 - Allows whitelisted users to use multiple user ids inside container
 - root mapped to original user, other user ids mapped to unique range assigned to user
 - Other tools call this "rootless"
- singularity-3.4 (Augustish) scheduled to have --fusecmd option for fuse mountpoint with fuse3-based code (cvmfs-2.7) inside container
 - PRs now being tested, based on plugin and builtin
 - Works with older kernels and setuid, hopefully solve many HPC cvmfs problems
- RHEL 8.0 beta supports unprivileged mounts of FUSE filesystems
 - podman heavily dependent on this feature and fuse-overlays
 - I have proposed to Sylabs to make RHEL 8 singularity unprivileged by default, full featured
- Starting monthly singularity developers' conference call this month
- Singularity security assessment report expected next week