

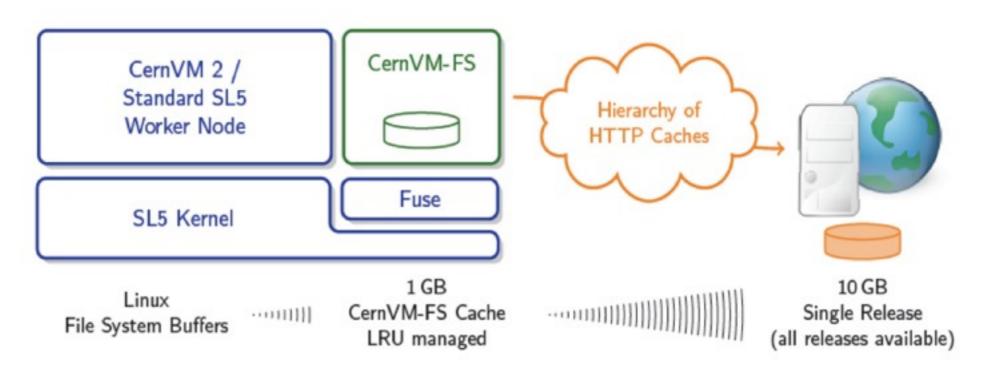
## cvmfs: ready for the big time?

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#### cvmfs

- Quick reminder of what it is:
  - Read only file system, developed by CERN VM team
  - Cached strongly local cache, backed up by hierarchical series of squids



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## Why it's good

- Liked by sites because:
  - It scales beautifully (c.f., nfs, afs, lustre, gpfs)
  - It's easy to setup and maintain
- Liked by us because:
  - No reason to run installer jobs anymore
  - Things in cvmfs uniformly and ~instantly available at all sites
- Liked by everyone because of
  - De-duplication for identical files in different places in the filesystem tree

#### HOWTO

- https://twiki.cern.ch/twiki/bin/viewauth/Atlas/ Tier3CVMFS2SLC5
- Some juggling of soft links required, with VO\_ATLAS\_SW\_DIR still on nfs:

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### Go, go, go, ...

- Used at RAL, Wuppertal, QMUL (plus T3s)
  - So far, so good
- Interest from significant number of other sites

# Improvements and Open Questions

- Conditions data into cymfs, plus ddm, cctools, dbreleases
  - Uniform path, no need to build PFC on each site
- What do we really need to localise on sites?
  - Anything...? How...?
- Do we need to make the setup easier for sites? How?
- Can athena setup be truly relocatable (limited to /opt/atlas for now)?
- Do we have to validate sites when s/w area is 'guaranteed'?
- What to do if the site cannot/will not use cvmfs on WNs?
- Install into cymfs master from RPMs?
- Robustness of CERN setup critical

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