



SINGULARITY @ ALICE

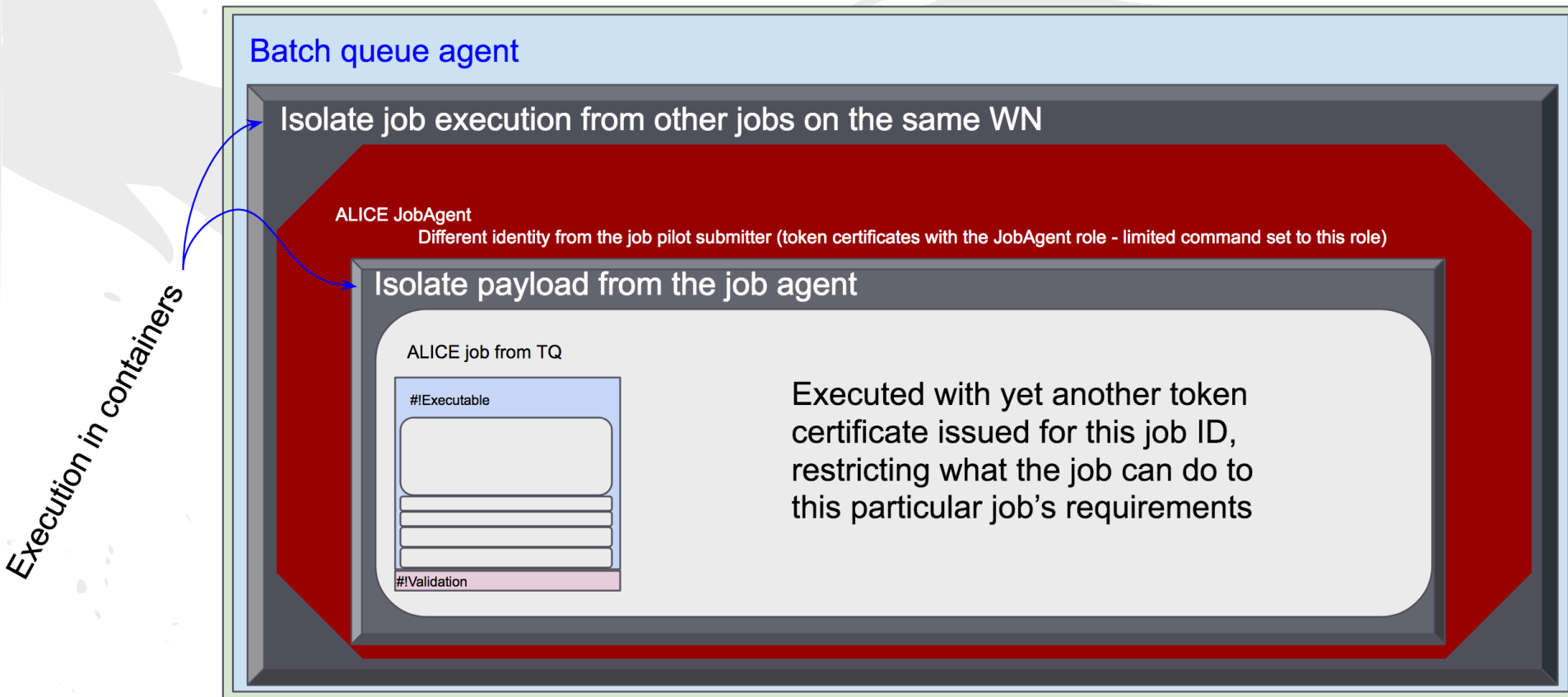


REQUIREMENTS

- **CVMFS => `-B /cvmfs:/cvmfs`**
 - If to avoid setuid this is not doable, CVMFS provide ways to use *external* cache so it still shared as much as possible. Otherwise CVMFS inside the container, local caches (squids/stratums pushed)
 - Regarding image distribution (*unpacked*), is relevant to keep the infrastructure healthy, should offer same content from the container view
- **`/tmp` used in analysis framework**
 - Testing if setting `$TMPDIR` for the payload cover all the grid use-cases
 - We would like to keep `/tmp` contained to avoid jobs polluting that area too much and bringing nodes down (black holes) => `--contain` or `-B`
 - Also we have seen how some nodes/batches had shared files, credentials, and undesired stuff in `/tmp` too
- **`Workdir/$PWD` of the job => `mkdir ./alien-job-$id` and `-B ./alien-job-$id:/workdir`**
(or whatever agreed folder name)
 - We have a 2-layer pilot: the first one does only matching; the second one prepares job files and environment and runs the payload (and would prepare Singularity execution). Credentials passed safely between the layers (next slide)
- **`HEP_OS_libs` => *on image build***

PILOT

One slot



- Being developed only in new AliEn version (JAliEn)
- Plan to have first production site by April