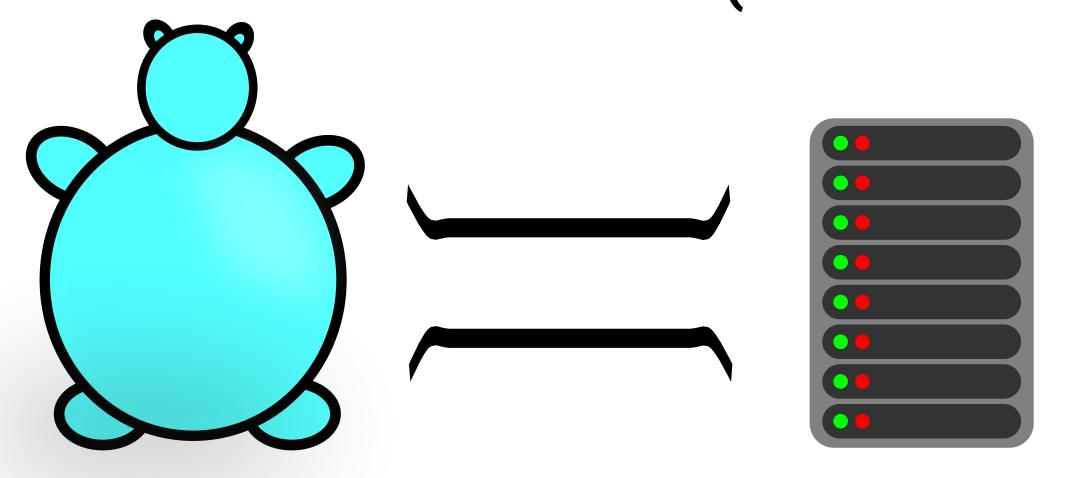
DUCC Daemon to Unpack Containers in CVMFS

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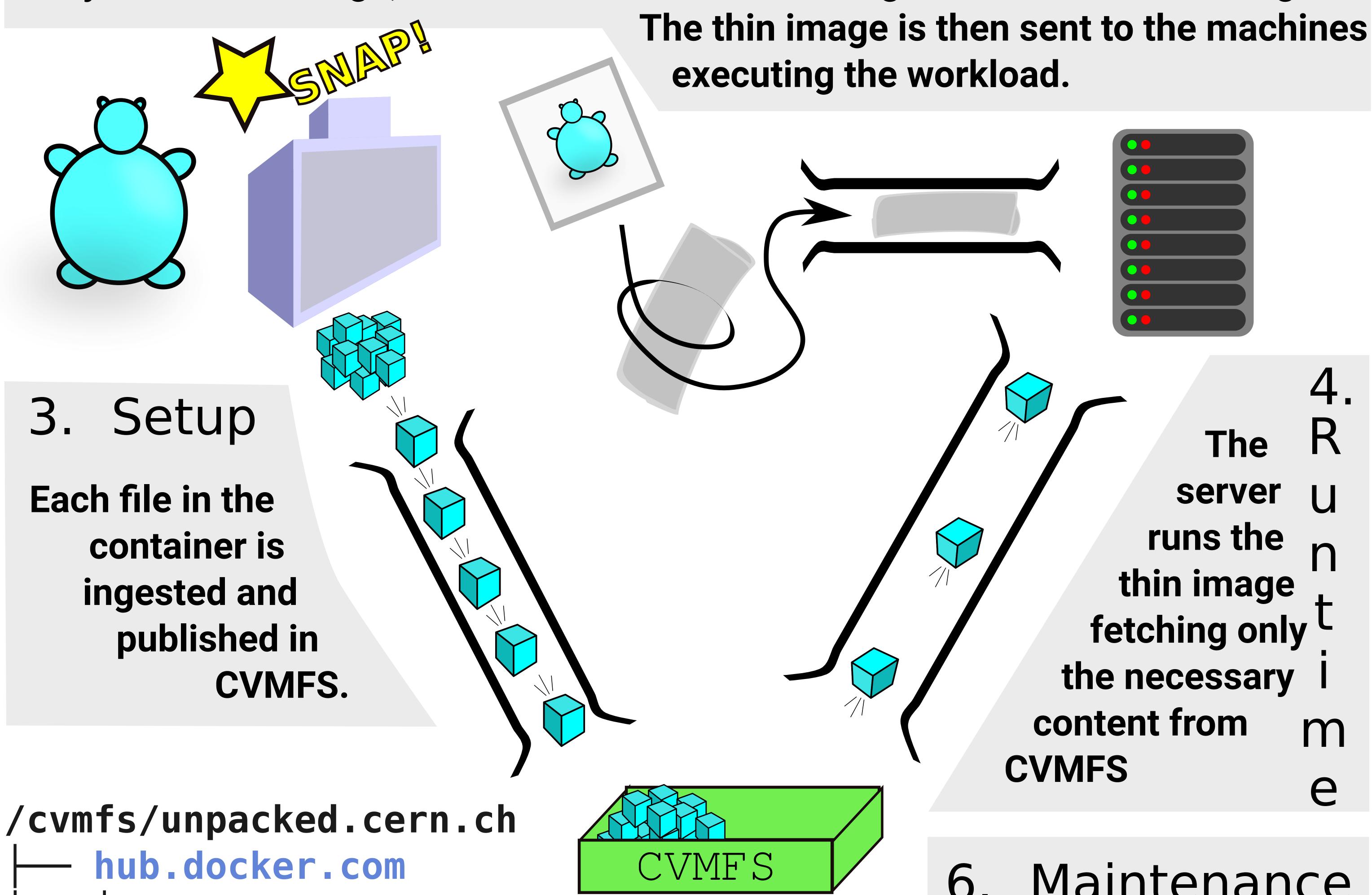


1. The Problem

Scientific container images can be very large (>10 GB) and are hard to deploy at scale where bandwith is limited.

2. Our Approach

CVMFS can efficiently distribute container images in their unpacked form [1, 2]. DUCC manages the lifecycle of such images. It publishes a Docker image as a tiny ~KB "thin" image, a set of references to the original content of the image.



atlas analysisbase:21.2.60

.layers

5. Run anywhere

We publish the images as a flat root filesystem along with every layers to support Singularity, Docker and containerd engines.

6. Maintenance

When an image is not necessary anymore, it is garbage collected after 30 days.

