HammerCloud 3

WLCG Operations Coordination

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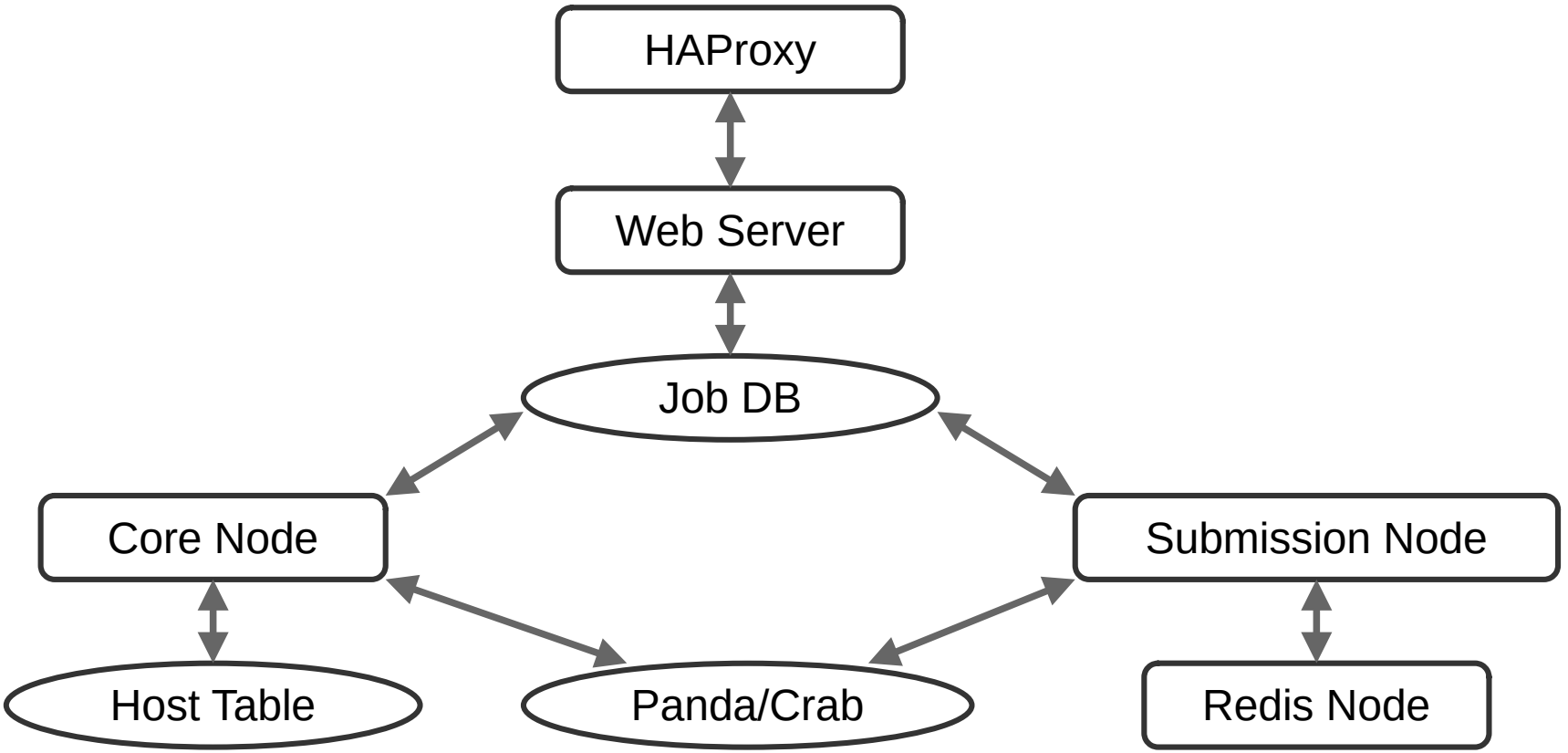
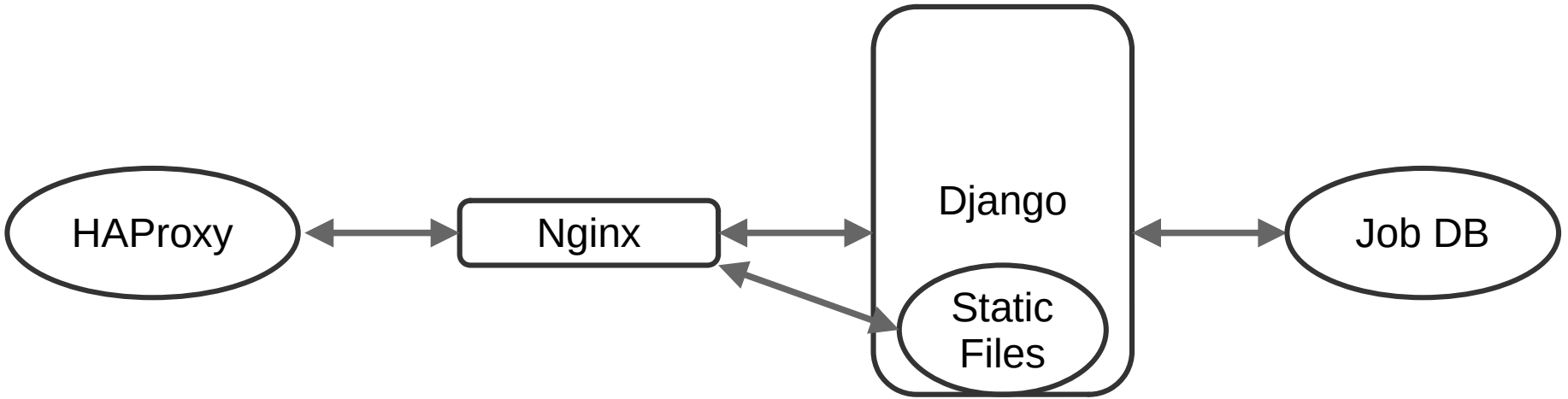
Hammercloud

- Python 3
- Almalinux 9
- Containerization

Hammercloud | Nodes



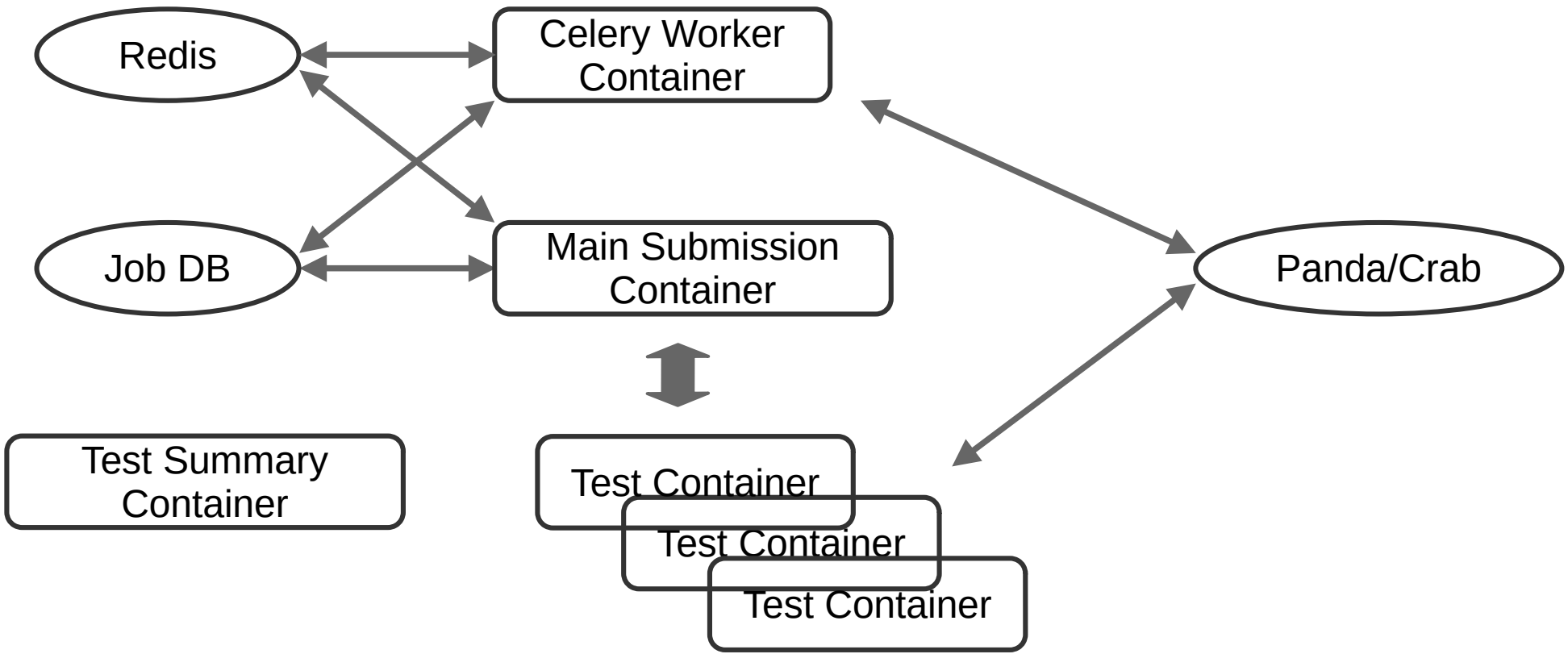
Hammercloud | Web Server



Hammercloud | Web Server

- Two web servers serving both Atlas and CMS
- Load is balanced by HAProxies
- Uses an Nginx container and a default Hammercloud container with Django, which connects to the a Job DB (CERN DBOD)
- The migration to containers and EL9 is completed

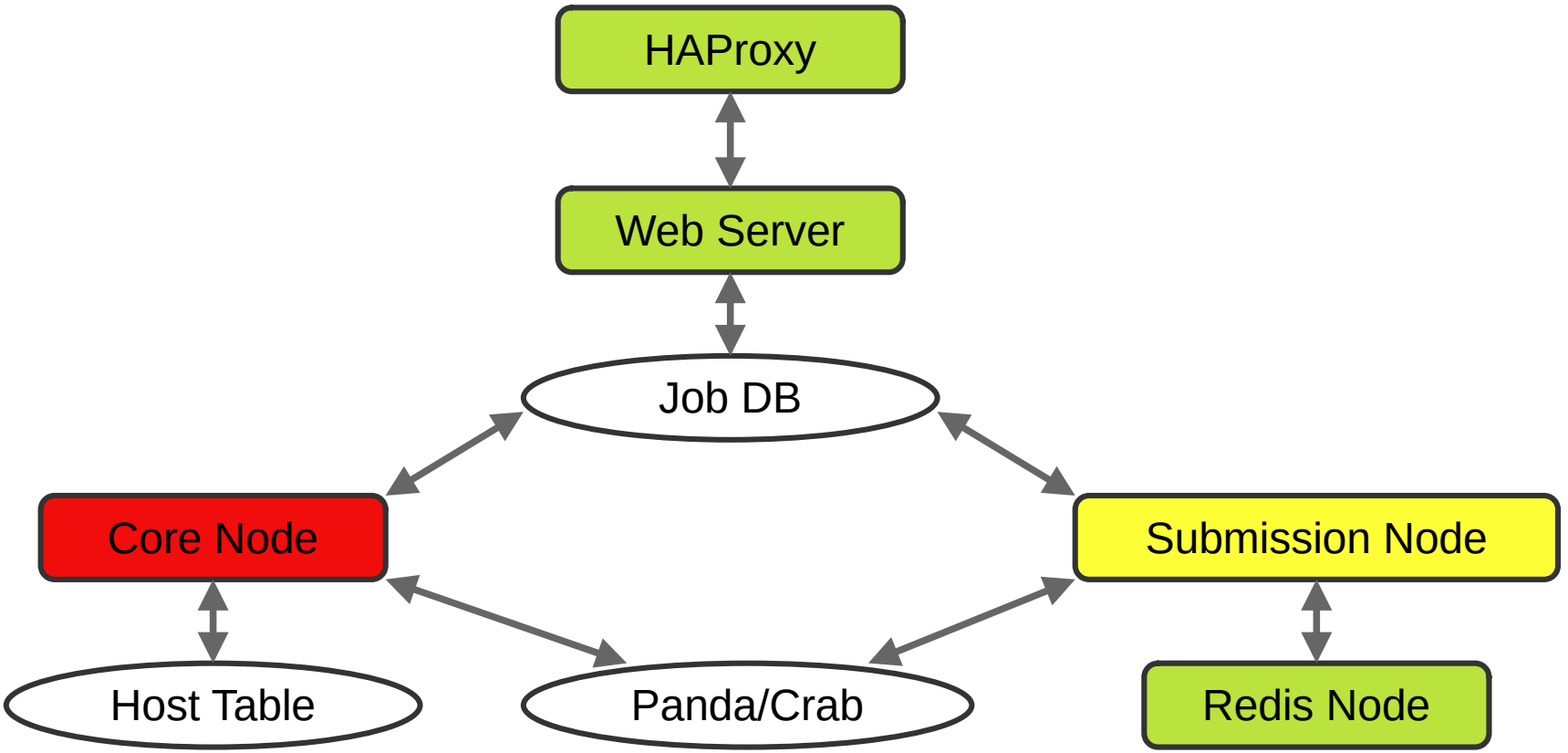
Hammercloud | Submission Node



Hammercloud | Submission Node

- Hosting Celery workers and Submission containers, both distributed over several nodes
- Celery and Submission containers interacting via Redis node
- The submission of jobs to Pandas happens from test-specific containers, generated once a test is assigned to the specific submission node
- The migration of Redis is completed for both Atlas and CMS, but is in production only for Atlas (CMS had no proper QA, so we are waiting for the submission node to be ready)
- For the submission node, the containers are ready, except for the individual tests ones

Hammercloud | Core Node

- Tasks:
  - Assign pending tests to submission nodes, using the JobDB
  - Collect information about available sites
  - Generate SAM reports
  - Manage autoexclusion and autoexclusion alarms
- Many services not yet containerized, may appear the need to deviate from the initial plans for the containerization process

Hammercloud | PoW