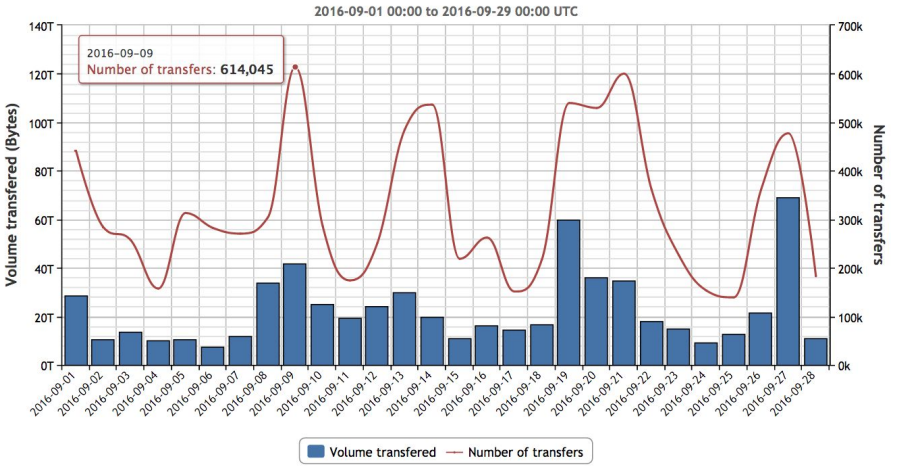
ASO usage

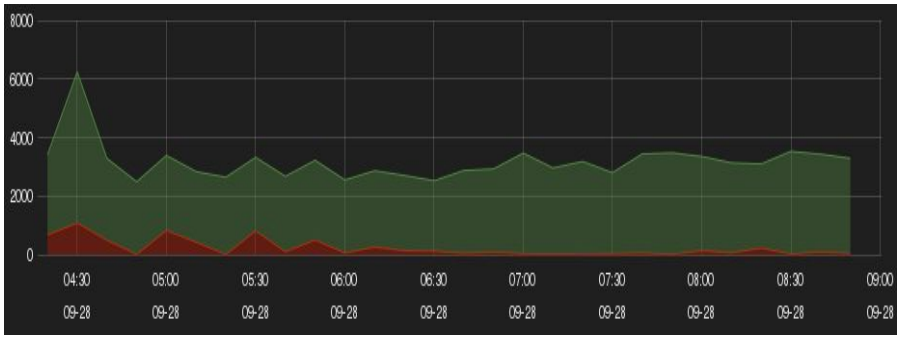


- In production since June 2014
- Key component of CMS computing
  - August: managed up to 600k file transfers
- Improves previous model where transfers were done from WN and:
  - Sometimes could cause DDoS of CMS Tier 2 storage systems
  - Transfer failure was the primary reason of job failures
  - Resulted in loss of cpu both because of failures (need to rerun the job) and because WN CPU is sitting idle during the transfer
- Critical parameter in operation is the number of transfers requests
  - User transfers consist of many small transfers (differently from central production)
  - Pressure to the ASO transfer CouchDB database instance

Current state

- Oracle solution have been implemented. Required changes :
  - ASO backend software
  - Job wrapper that insert the transfer request in the database and other parts of the workload management system (CRAB)
  - New REST interface on top of the oracle schema to also allows auth/autz and insert data from the WN using user's certificate
- Early scale tests at the production rate did not show any problem

Production rate of 3k jobs/10m



15k jobs/10m average for scale test