

HTC2026

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Monitoring

- Zabbix - standard daemons on all server. Standard components for dashboards.
- Grafana - Most data collected by client on one monitoring server, but for some detailed monitoring (temperature, system loading) - need prometheus services or puppets scripts on monitored servers. Dashboards from box and “hand made”.
- Alerting
 - Grafana
 - Local - alerting from local sensors - hardware - temperature, etc. and software - disk space, slurm messages etc..
 - From CERN - by using “Cern Grafana API token” we can collect data from cern monitoring to repost this data to local Grafana and use local alerting system. Now working for R/A only.
 - Zabbix - only local sensors.
 - Scripts which periodically check for missing/failed drives on our storage servers, high temperature on CRAC units, and if the number of jobs reported by Slurm fall below a certain amount (15,000 slots). Email alerts are sent for these issues.

Storage and varnish solutions

- Storage

- Done now:
 - Migrations scripts updated: add backup, parallelization (simple), alerting
- Plans:
 - Load balancing setting
 - Add second redirector

- Varnish

- Switched from Frontier Squid server to Frontier Varnish server for caching system.
- Create two Varnish servers. One is the primary server in CRIC, while second server is for failover.

- CE

- Added second Condor-CE

Monitoring examples

