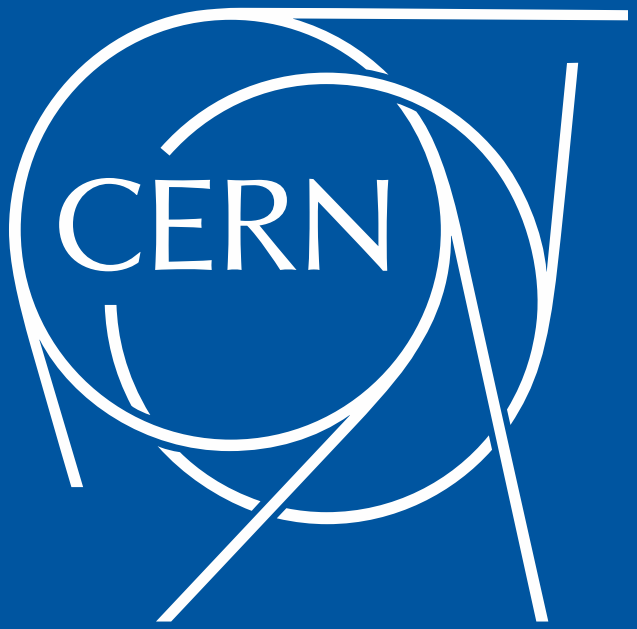

CERN

CERN

Elasticsearch and Kibana Setup

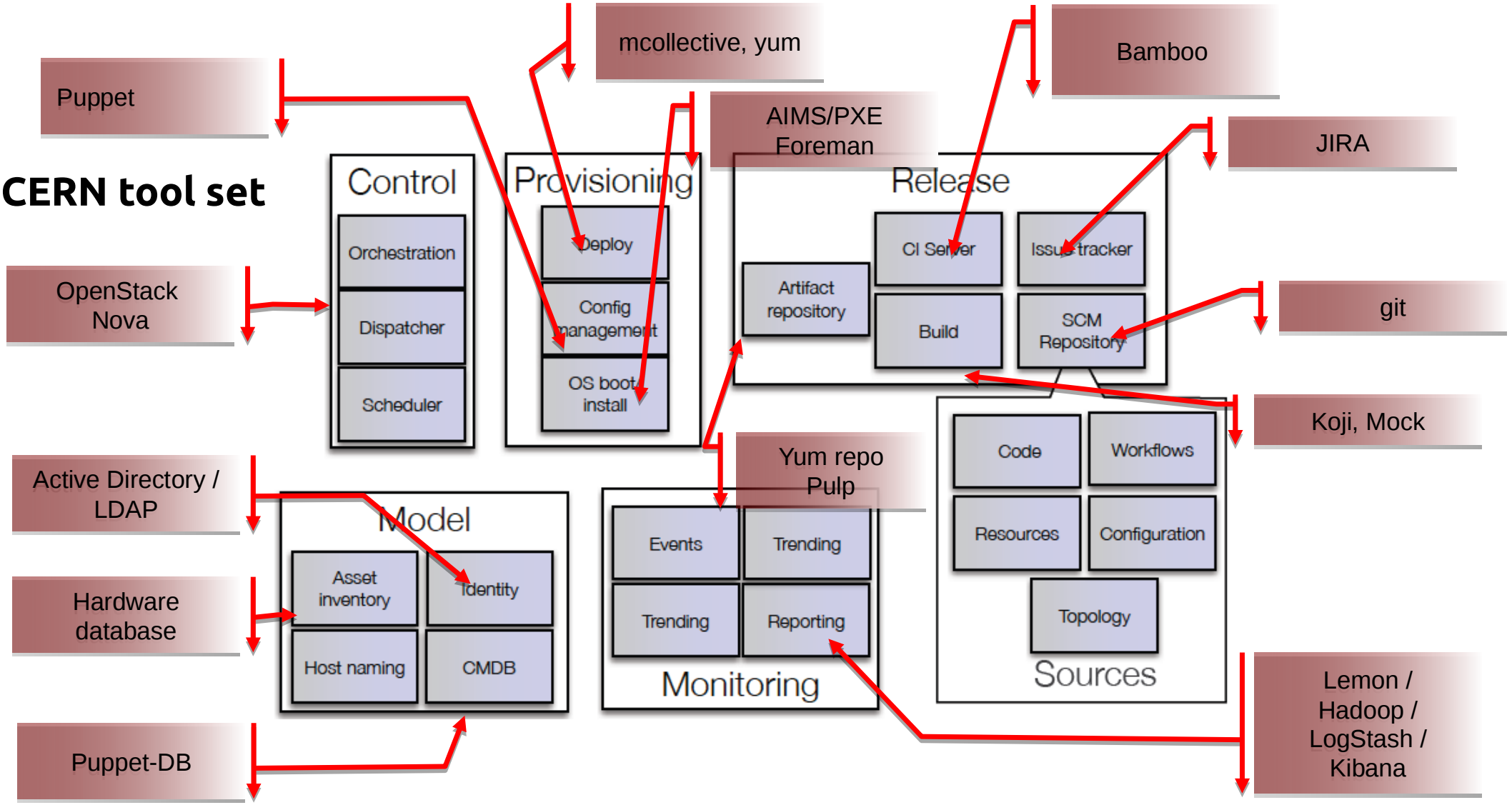
CMS Offline Software Group

Ijaz Ahmad

Issues with previous setup

- Shared resources
- Memory and CPU problems
- Slow down of slave nodes

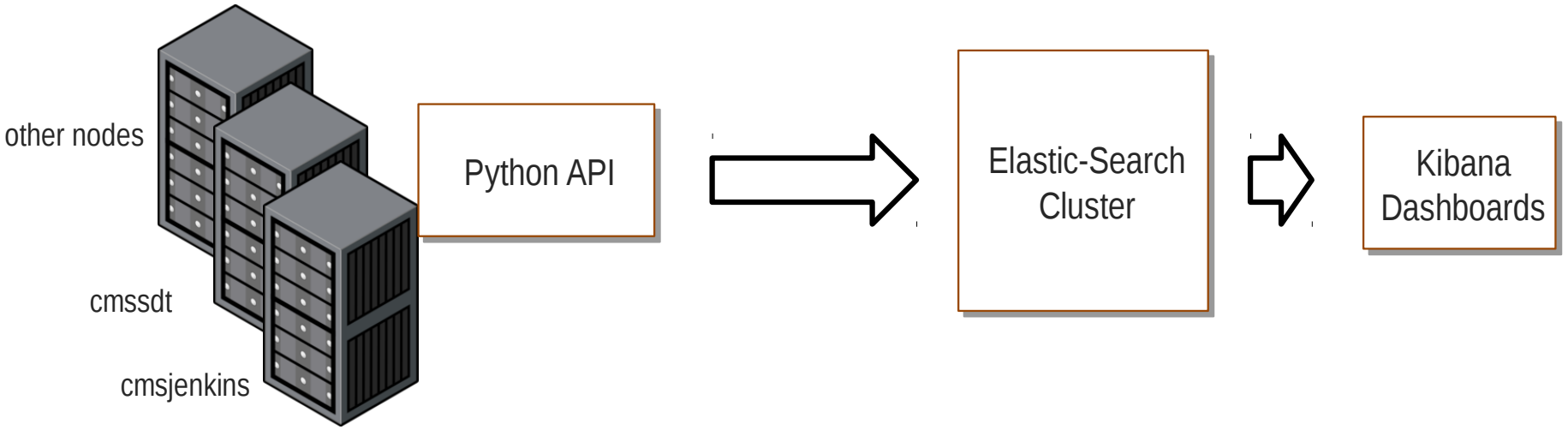
CERN tool set



Tools used

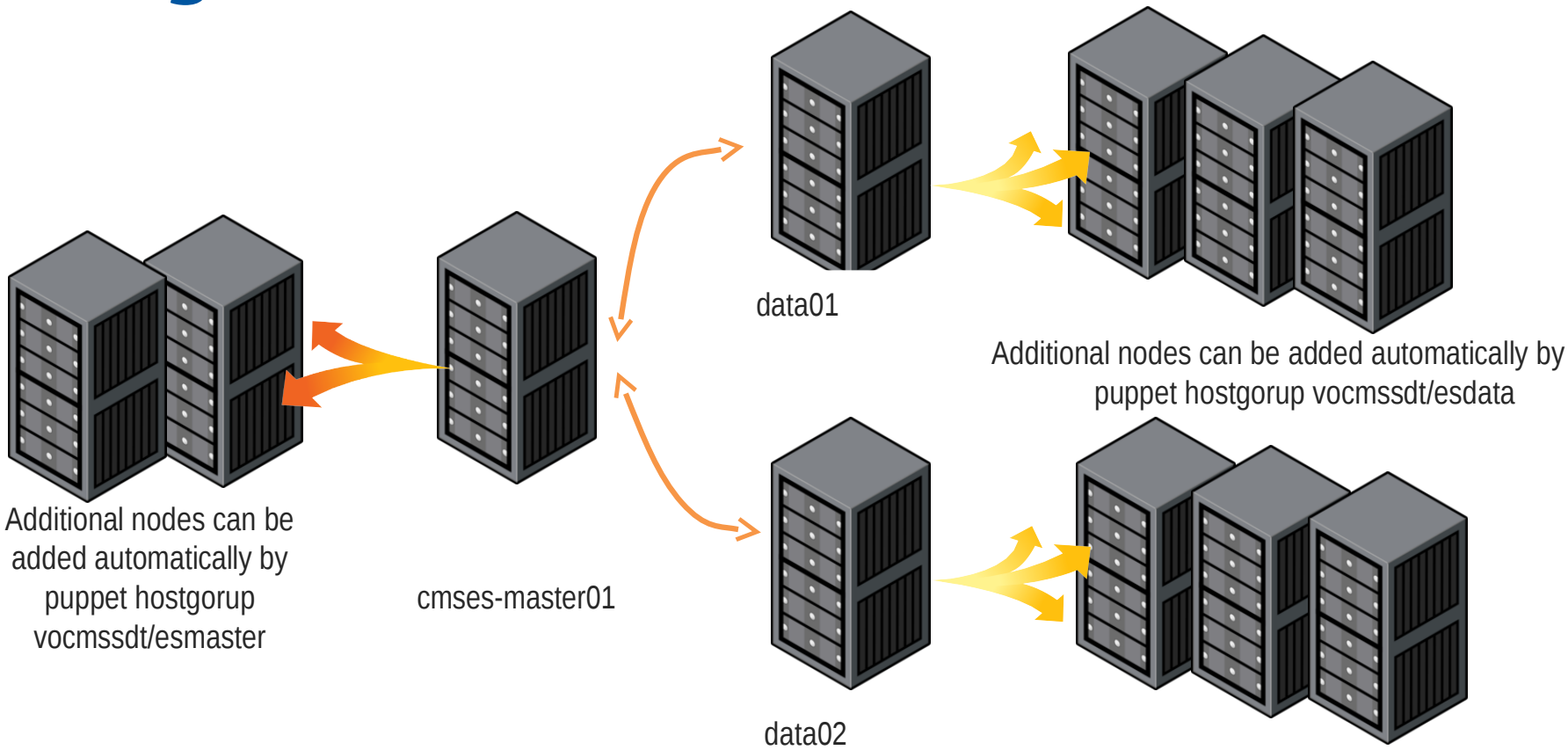
- Current setup: 3 nodes
- Can scale horizontally
- Tool chain using
  - Elastic-search 1.5 , Kibana3
  - SearchGuard
  - Puppet-Foreman
  - GitHub (cms-bot)
  - CERN Git (puppet repos)
  - Python

Monitoring - Python, Elastic Search, Kibana



Nodes Infrastructure

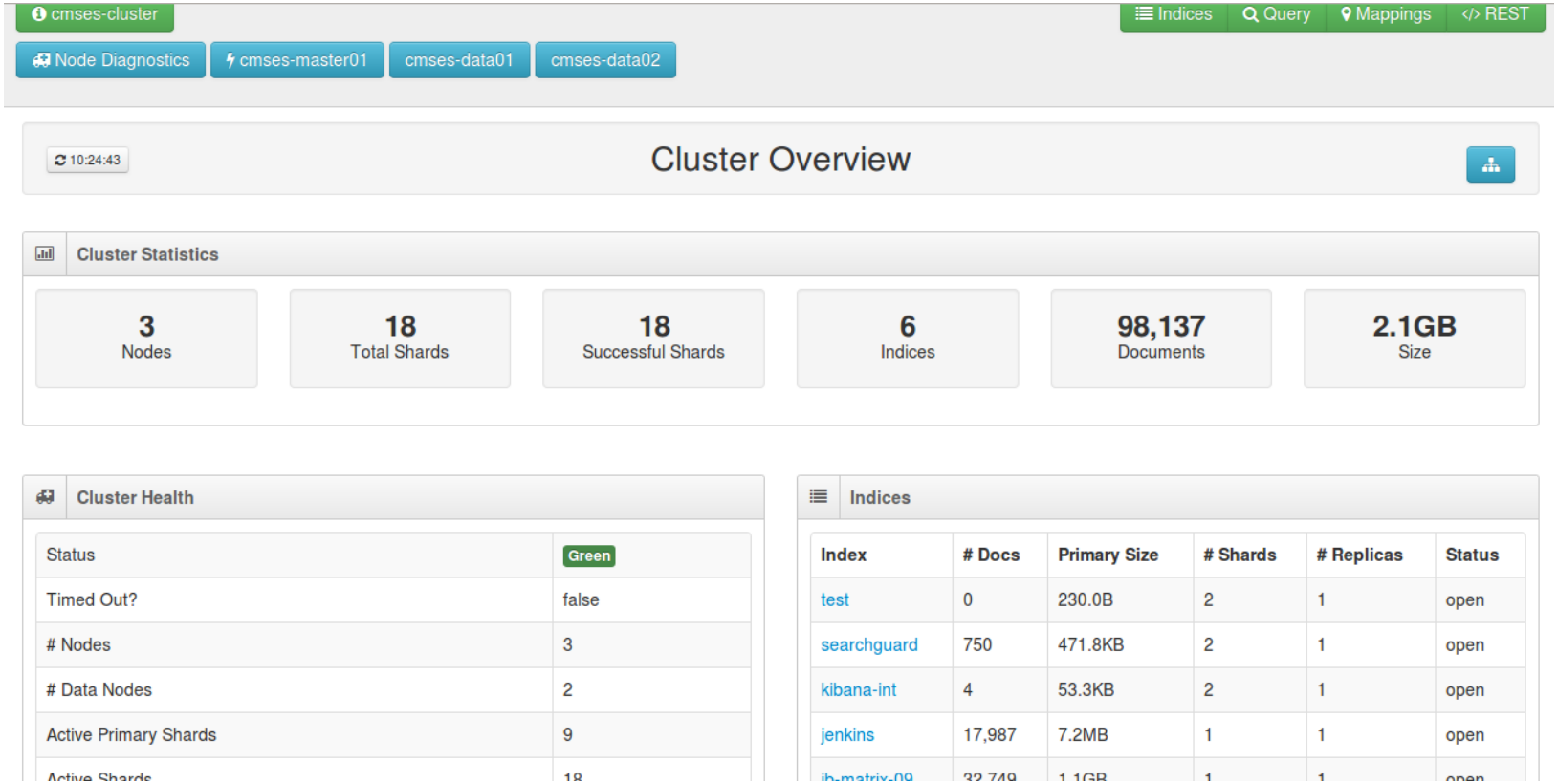
Scaling Architecture Overview



Services

- Monitoring various aspects of Jenkins such as builds
- RelVal logs errors
- Next to come…
  - Github pull requests
  - Hypernews

Elastic-Search – Cluster Manager

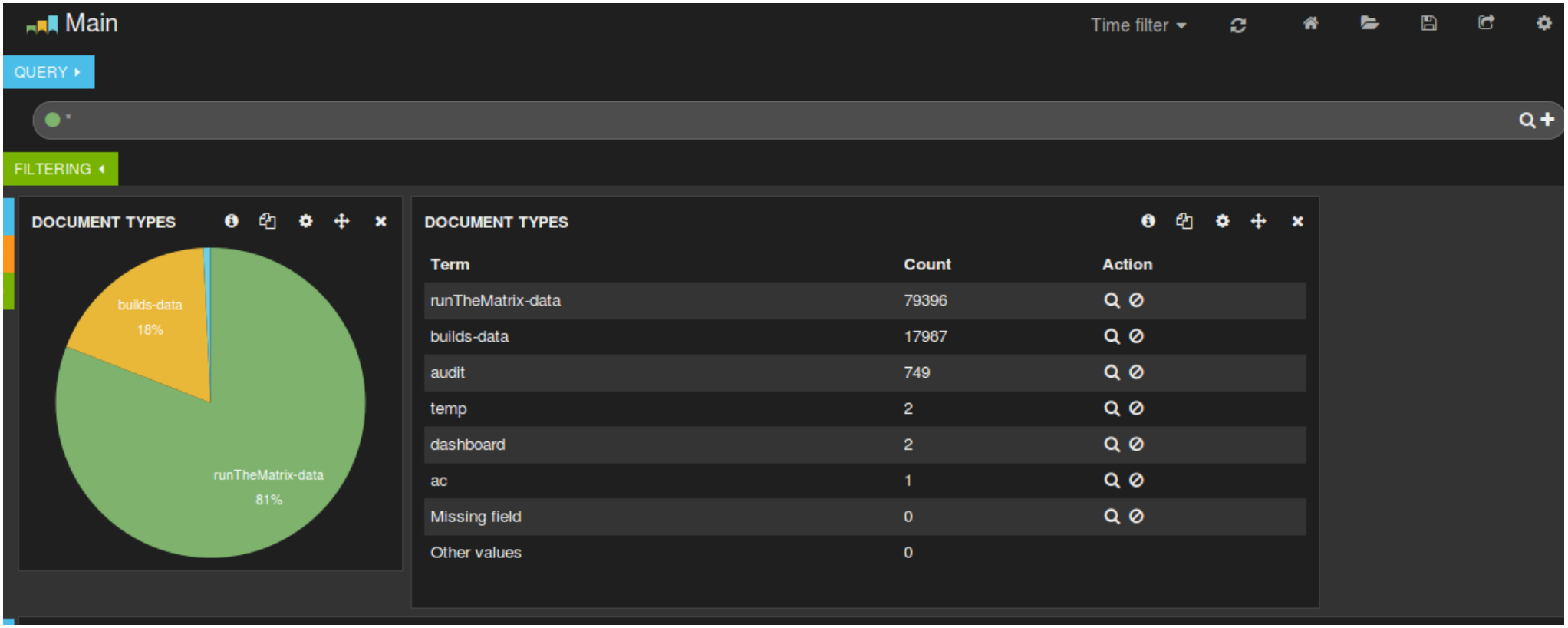


Elastic-Search – Cluster Manager …

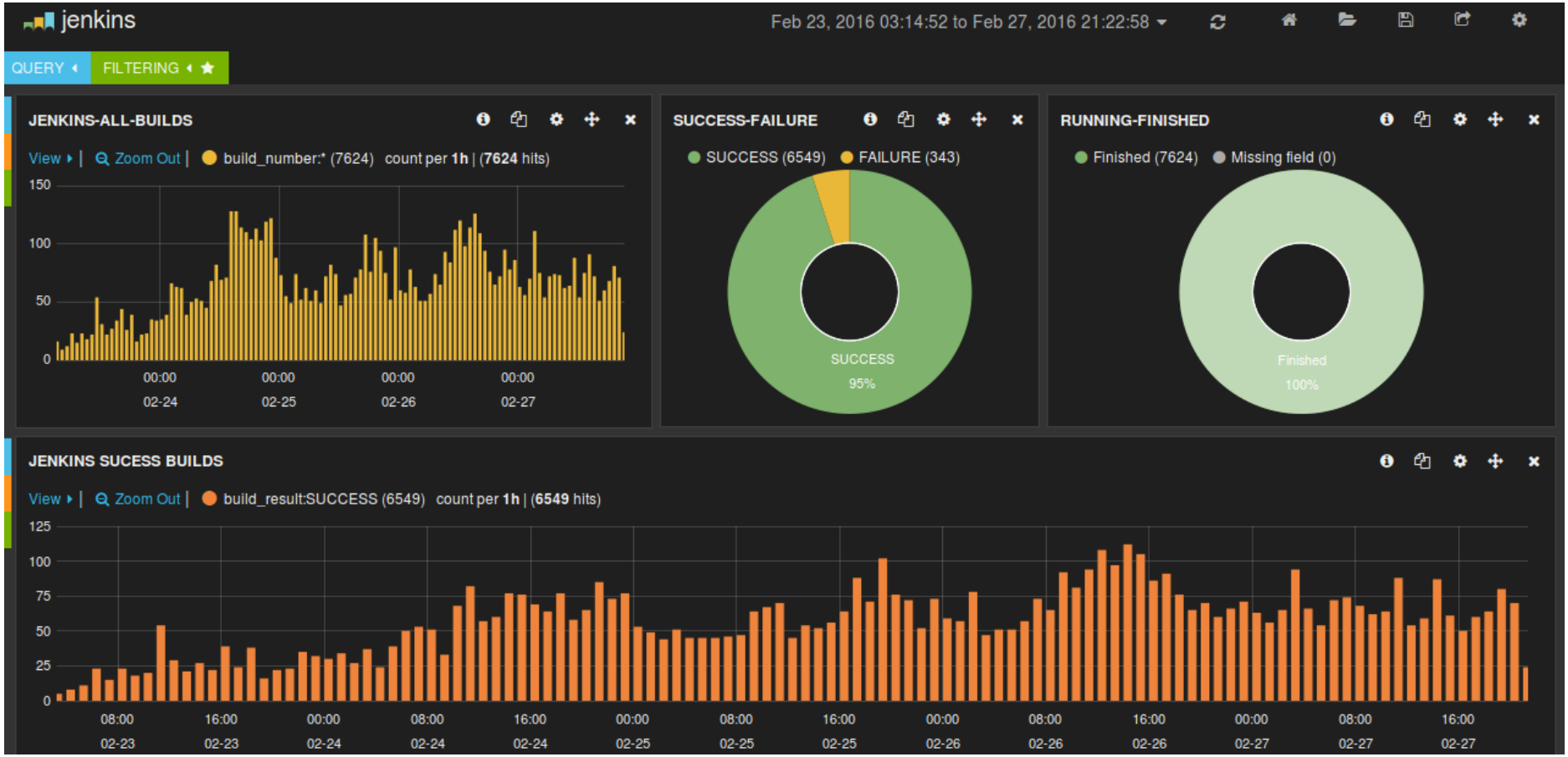
Demo

http://cmses-master01.cern.ch:9200/_plugin/HQ

Monitoring – Kibana ...Overall cluster



Monitoring – Kibana ...Jenkins Dashboard



Monitoring – Kibana ...

Demo

http://cmses-master01.cern.ch:9200/_plugin/kibana