

# A User Portal at CC-IN2P3

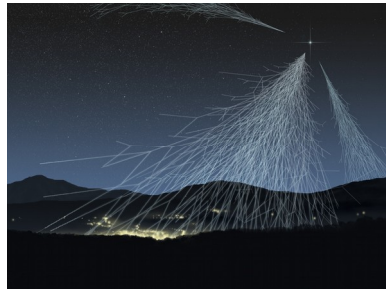
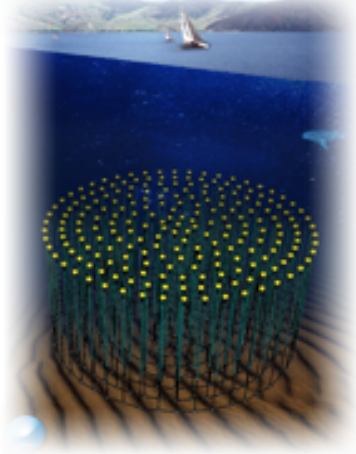
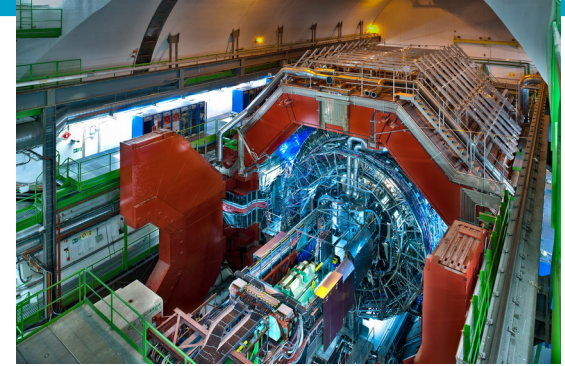
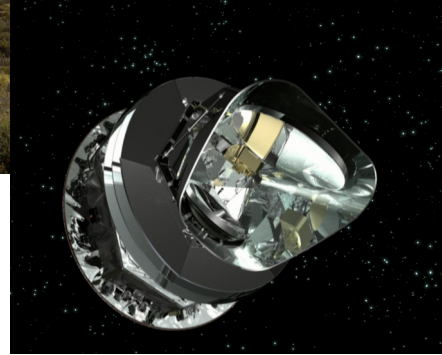
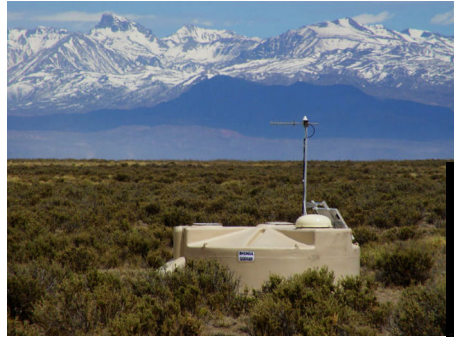
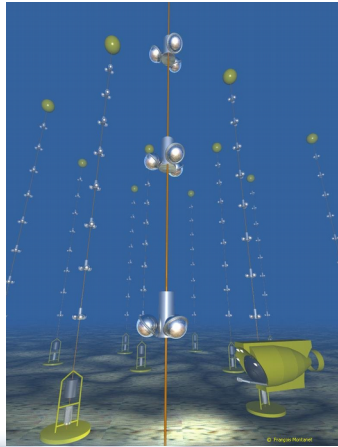
Cyril l'Orphelin, Gino Marchetti, Renaud Vernet  
HEPiX Fall '17

# CC-IN2P3 at a glance

- Academic data centre in Lyon, France
- Compute (30kslots)
- Storage (Disk 25 PB, MSS 50 PB)
- IT services
  
- LHC Tier-1
- + many other experiments (~70)
  - Mainly HEP



# Communities



- Different physics, different sizes, different needs

# A User Portal : what for ?

- **Because we don't have any !**
- Current situation for our users
  - Several monitoring pages
  - Information & documentation not centralized
- **Help users make a good usage of our resources**
- We want first :
  - Monitoring-at-a-glance
  - Central access to information, services, documentation

- Short deadline
  - A few months of work before production
  - K.I.S.S. approach
- Simple monitoring views
  - Easy to spot problems
  - Focus on the **essential** stuff
- Alerts
  - Notify user in case of events/incidents/action needed
    - Batch jobs failures, password expiration, downtimes...

- Information / news
  - Downtimes, general communications to users...
- Homegenous presentation of data
  - Style, graphics
- Widget-based web pages
  - Paging, scrolling & scaling on devices (desktop vs phone)



Your job submission to the batch farm is currently limited.

**2017-10-19T08:15:14**

The number of your running on the batch farm is currently limited due to recent problems encountered with your application or your production.

## Jobs of vernet



## Your account

- Identifiant : vernet
- Lab : CCIN2P3
- Account expiration: 2036-01-01T00:00
- Password expiration : 2017-12-18T08:04
- Groups
  - ccin2p3
  - alice

- CCIN2P3 -

## Storage of vernet

Directory	Usage	Usage (%)	Space
/afs/in2p3.fr/home/v/vernet	611.3 MiB	63 %	Home AFS
/sps/hep/alice	27.3 KiB	0 %	SPS





Account expiration: 2038-01-01T00:00

Password expiration: 2017-12-18T08:04

Groups

- ccin2p3
- alice

### Storage of vernet

Directory	Usage	Usage (%)	Space
/afs/in2p3.fr/home/v/vernet	611.3 MiB	63%	Home AFS
/sps/hep/alice	27.3 KiB	0%	SPS
/afs/in2p3.fr/throng/ccin2p3	20.3 KiB	0%	AFS

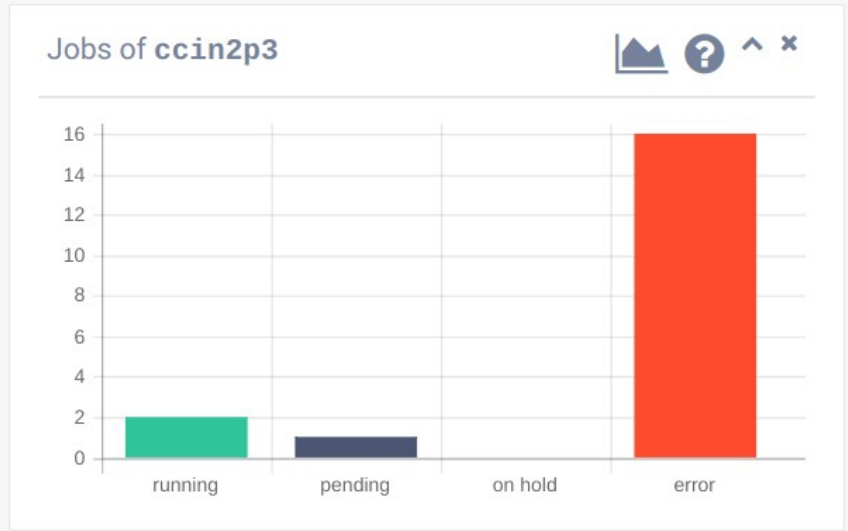
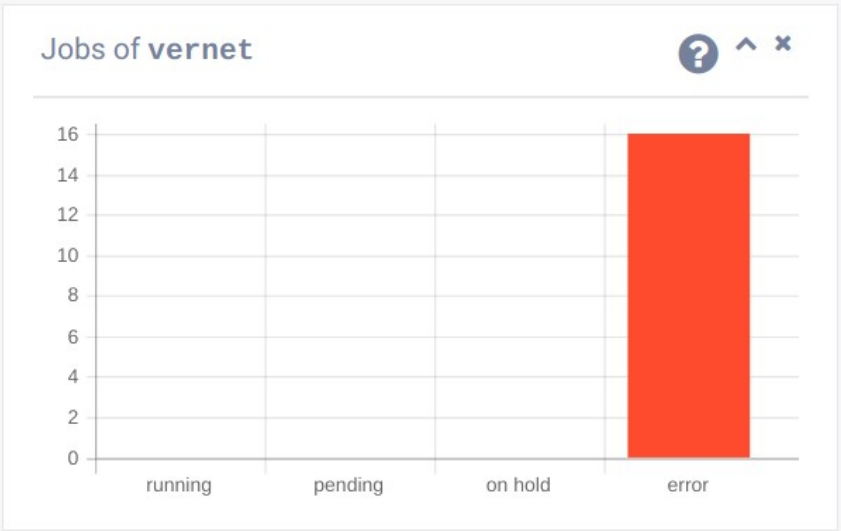
### News

Outage

#### Arrêt - Scheduled Outage : 2017-11-28

Le Centre de Calcul sera en maintenance du 2017-11-28T08:00:00Z au 2017-11-28T19:00:00Z

The Computing Center will be in scheduled outage from 2017-11-28T08:00:00Z to 2017-11-28T19:00:00Z





- ### Batch queues of vernet
- demon +
  - huge +
  - interactive +
  - long +
  - mc\_gpu\_interactive +
  - mc\_gpu\_long +

## EXTERNAL LINKS

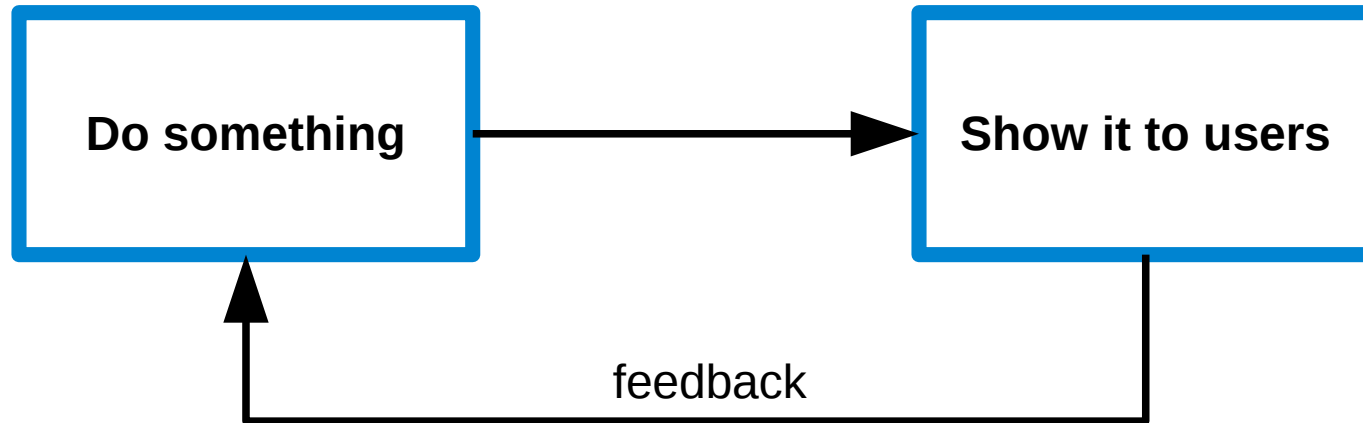
Storage of **vernet**

Directory	Usage	Usage (%)	Space
/afs/in2p3.fr/home/v/vernet	611.3 MiB	 63 %	Home AFS
/sps/hep/alice	27.3 KiB	 0 %	SPS
/afs/in2p3.fr/throng/ccin2p3	20.3 KiB	 0 %	AFS

Storage of **ccin2p3**

Directory	Usage	Usage (%)	Space
/afs/in2p3.fr/throng/ccin2p3	600.8 GiB	 1367 %	AFS
/hpss/in2p3.fr (ccin2p3)	16.7 TiB	 100 %	HPSS
/ccin2p3/home	108.3 GiB	 no quota	iRODS
/neuro/common	18.3 KiB	 no quota	iRODS
/neuro/home	1.1 GiB	 no quota	iRODS
/rhone-alpes/bundle	12.8 TiB	 no quota	iRODS
/rhone-alpes/home		 no quota	iRODS

# How ?



- 15 beta testers
  - Active users
  - Group managers



*What's useful to you in this service?*  
*What's useless?*  
*What's missing that you would need?*

- Feedback globally positive
  - Useful, simple and clear
  - Some more advanced functionalities needed (for group managers)
  - Much more focussed on content than form
- Physicists
  - Information must be : readable, relevant, explained

- OpenIDM
  - identity management
- Home-made scripts
  - Harvest data
- Lavoisier : data aggregation framework
  - Data aggregation
  - Data parsing (XML/XSL) & HTML rendering
  - <http://software.in2p3.fr/lavoisier/>
  - <https://indico.cern.ch/event/274555/contributions/615694/attachments/495740/685005/LavoisierHEPIX.pdf>
- Bootstrap
- → User Portal service : one VM

# Software architecture

Identities

Storage services  
Batch system  
News  
...

raw data streams



Transformed data  
(XML)



template  
(XSL engine)

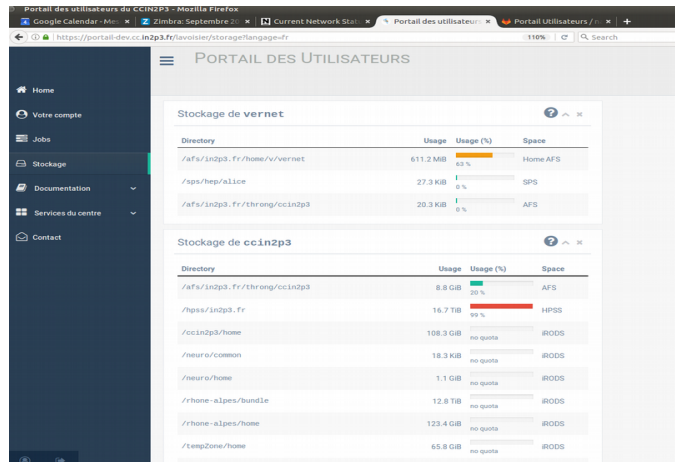


Views



Lavoisier

HTML  
Templates



- Workflows
  - Change password, extend account duration etc.
- SSO
  - Better integration with other services
- Ticketing system
  - API



- CCIN2P3 will provide a User Portal service
- Goal : Single (main) entry point for users
- Current features:
  - Monitoring
  - Access to documentation
  - Notifications
- To be put online in the coming weeks
- Looking forward to user feedback
  - → Will drive future functionalities

# QUESTIONS?

