PCOG YEARLY TEAM MEETING

2018 edition

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PCOG - HPC Team

2018-11-30

WHO I AM

EDUCATION

Master degree in Computer science in Nancy with **network and systems** speciality.

Internship at Montréal, working on a network plugin for **Openstack**.

EDUCATION

Master degree in Computer science in **Chicoutimi**, one year abroad from France.

Attend a course on **distributed systems** and data mining.

EXPERIENCES

2.5 years in Inria Nancy, developping a **network monitoring tool** for Grid'5000 and member of the **technical team** for the Nancy and Lille sites.

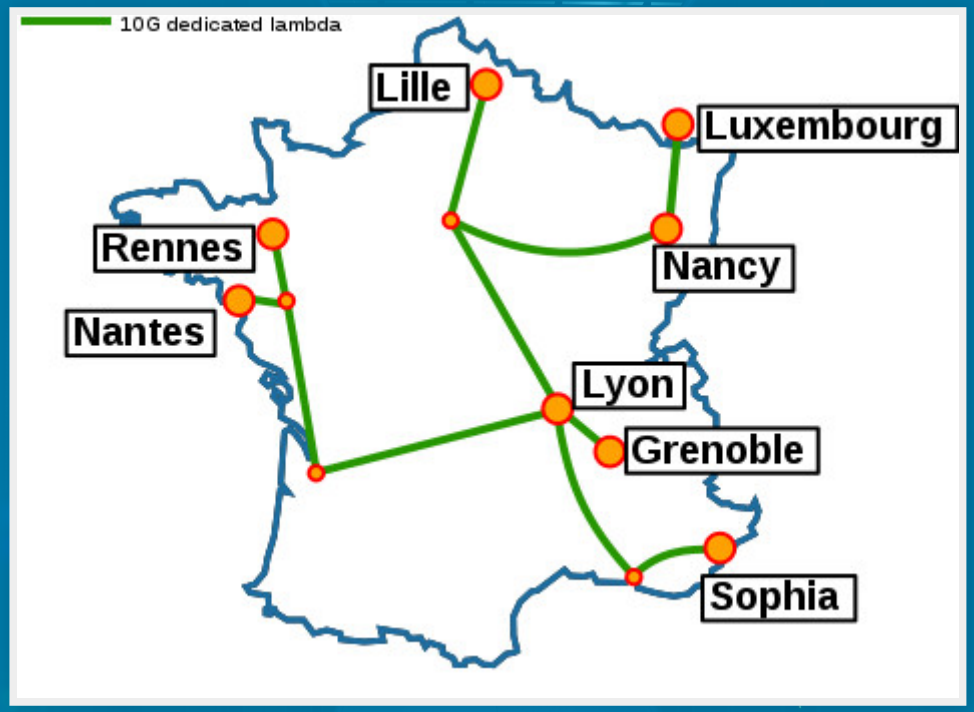
GRID'5000

A large-scale and versatile distributed testbed for experiments-driven research on parallel and distributed systems

META-GRID
META-CLOUD
META-CLUSTER
META-DATA-CENTER

```
cparisot@cacahuete:~$ ssh luxembourg.g5k
Last login: Thu Nov 22 09:53:05 2018 from 192.168.66.4
cparisot@fluxembourg:~$ oarsub -I
[...]
Generate a job key...
OAR_JOB_ID=154255
Starting...
Connect to OAR job 154255 via the node granduc-15
cparisot@granduc-15:~$ sudo-g5k su
root@granduc-15:~# apt-get install sl
```

GRID'5000 TODAY



30 clusters, 8490 cores, 92 accelerators, 600 users

LUXEMBOURG SITE

Granduc	22 nodes	44 cpus	176 cores
Petitprince	16 nodes	32 cpus	192 cores

NEXT STEPS

Moonshot-1	45 nodes	180 cpus	1440 cores
Moonshot-2	45 nodes	180 cpus	1440 cores

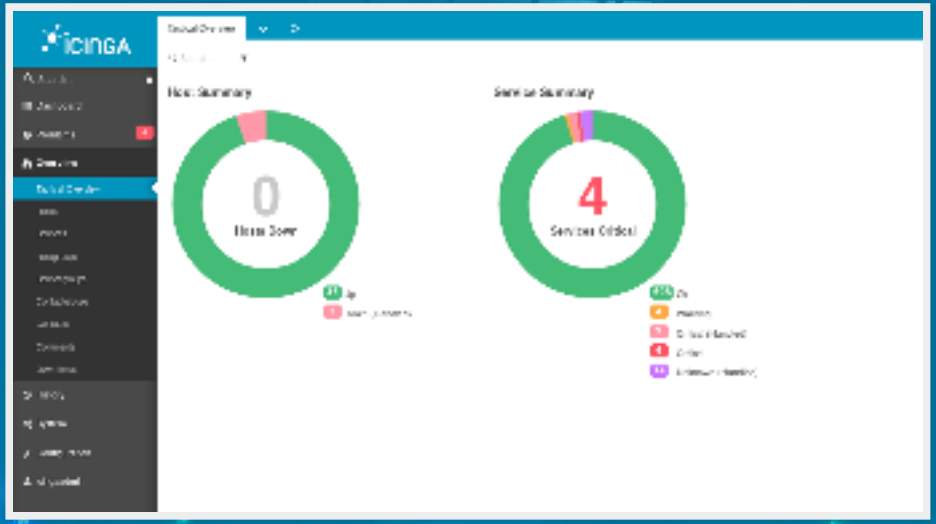
UL HPC

DAY-TO-DAY TASKS

- Answering users mails/phone calls
- Account management (new account, extend accounts...)
- System administration
- Internal tools improvement

BACKGROUND TASKS

Monitoring infrastructure



Puppet modules to manage configuration

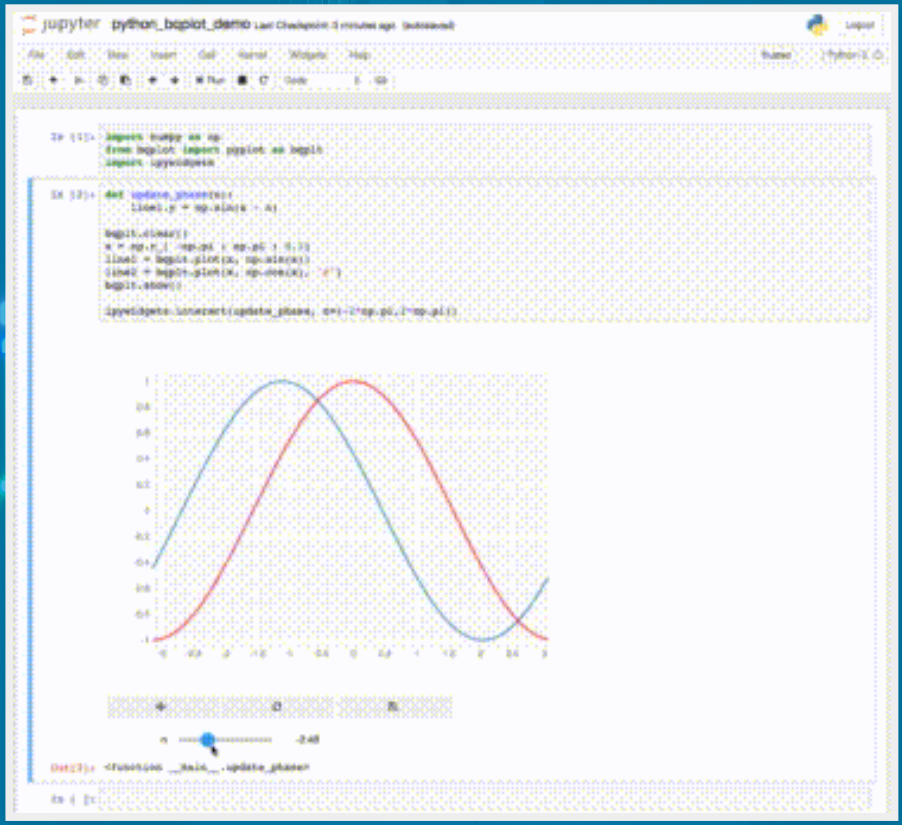
TEACHING THE USERS

Organisation of 2 **UL HPC schools**

TEACHING THE USERS

Organisation of 1 **FIT-Grid'5000 school**

PYTHON TUTORIALS



NEXT STEPS

- Syslog management
- Gitlab (Gitlab pages, Mattermost, Docker registry)
- GDPR

THANK YOU FOR YOUR ATTENTION!