









Current High Rate analysis platform

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What we have now



- Resources:
 - k8s cluster:
 - master node with 8 CPUs, 16 MB RAM, 30 GB disk
 - 9 worker nodes with 16 CPUs, 33 MB RAM, 155 GB disk
- Entrypoint: https://hub.192.135.24.49.myip.cloud.infn.it
 - JupyterHub deployed with WP5 JHub Helm chart
 - Login via IAM DEMO: https://iam-demo.cloud.cnaf.infn.it/
 - Available ready-to-use JupyterLab images:
 - ghcr.io/ttedeschi/jlab:wp5-alma8-0.0.34 (default one, almalinux8 + python3.11 + Dask)
 - ghcr.io/ttedeschi/jlab:wp5-alma8-0.0.40 (almalinux8 + python3.11 + Dask + ROOT 6.30)
 - In both cases, a Dask cluster can be spawned on Kubernetes nodes via the Dask Labextension (for ghcr.io/ttedeschi/jlab:wp5-alma8-0.0.40 Dask workers are deployed with the same ROOT version)



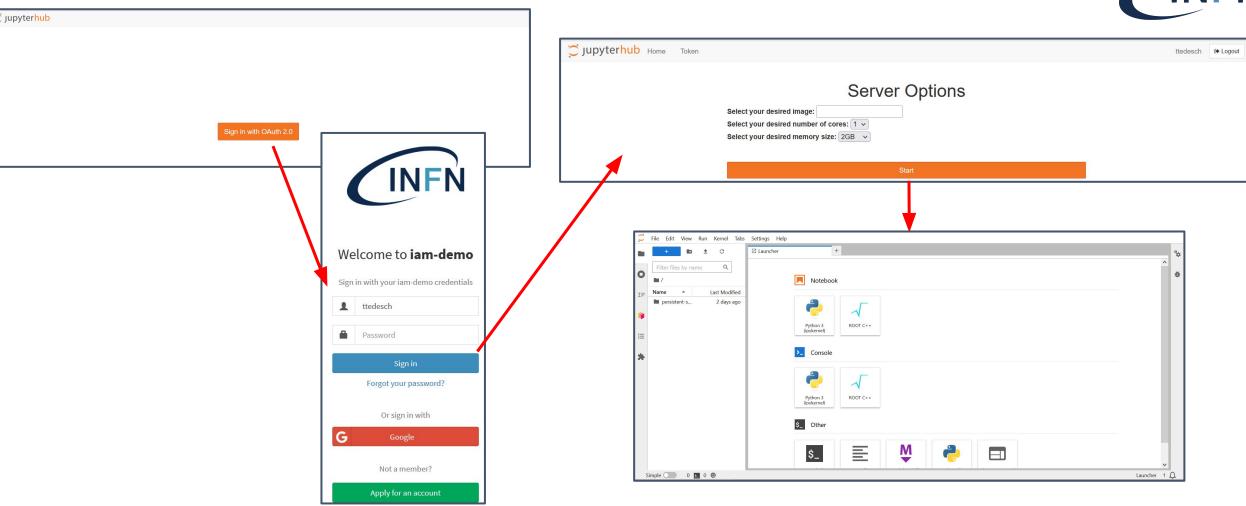






Access steps



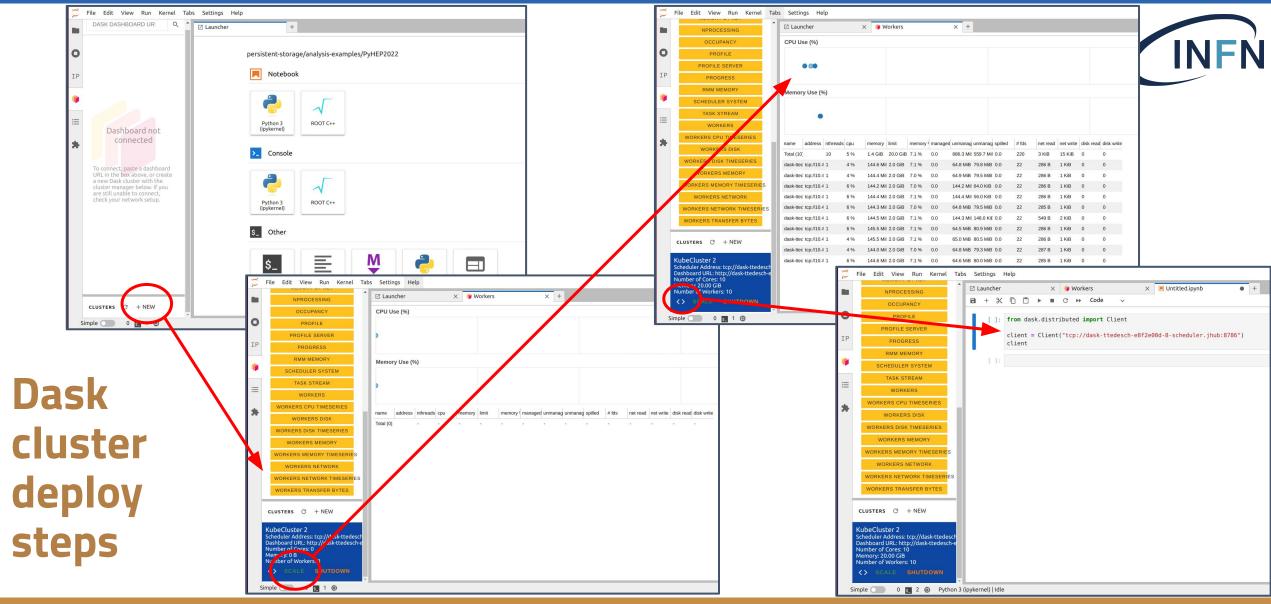
















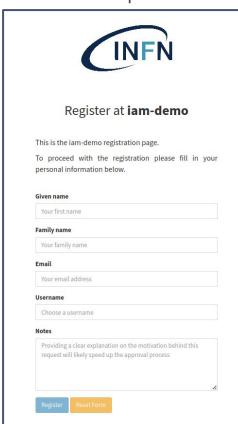


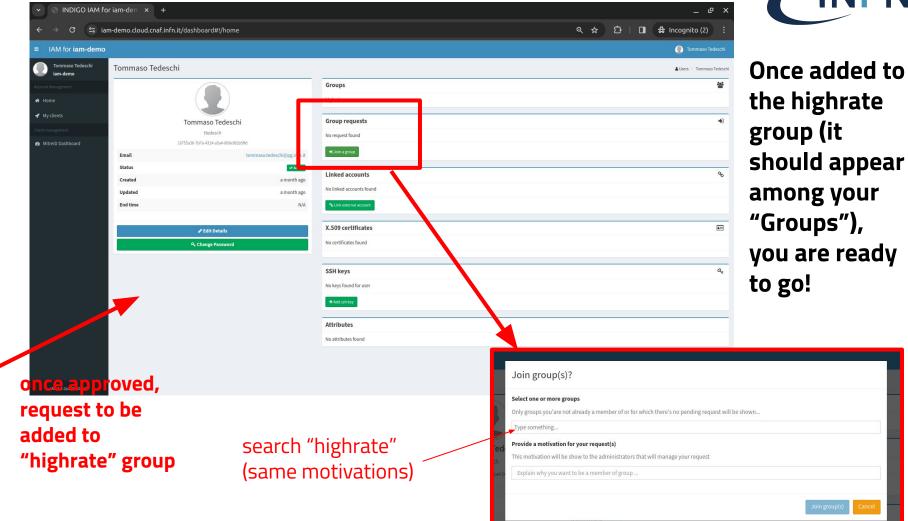


How to apply for an account

If you haven't done already, apply for an account here

https://iam-demo.cloud.cnaf.infn.it/ with motivation: "spoke2 tests"

















https://drive.google.com/file/d/1xe7JnEDpsPZBICtl_krstdwg1aNZ4Xkf/view?usp=sharing

https://github.com/ttedeschi/WP5-examples/tree/main









Some important points



- At the moment each user is assigned 10 GB of persistent storage:
 - Anything that is stored outside the persistent-storage will be lost when the JLab session ends
 - No redundancy nor any production backup is in place for persistent storage:
 BACKUP EVERYTHING ELSEWHERE! since data will be lost in case of a node failure
- You can create your own image of course. The suggested procedure is to start from the <u>Dockerfile</u> of the working images:
 - Make sure that Dask scheduler and workers are spawned with your custom image by modifying this line accordingly
- A monitoring dashboard setup is in progress
- Let us know if you need cvmfs
- Plan to document everything
- Everything is in beta at the moment, please report any issue or bug!