

XLcloud

<http://www.xlcloud.org>

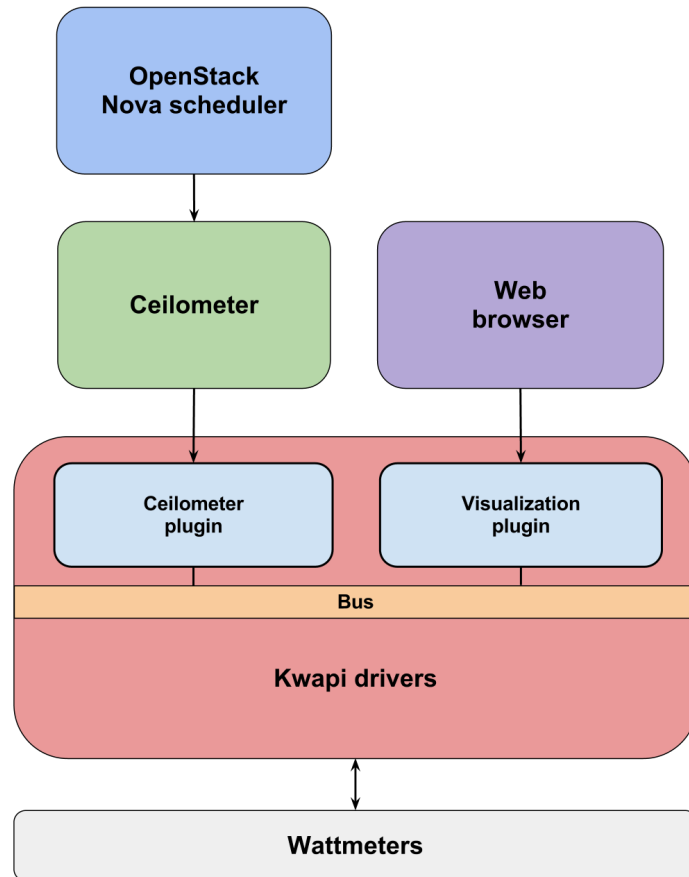
XLcloud:

- HPC-as-a-Service based on OpenStack
- Funded by the "Fonds national pour la Société Numérique"
- Three-year long collaborative project
- Open source licence

Some use cases:

- Compute plants (HPC clouds Research & Industry)
- Cloud gaming (industry of 3D video games)
- Interactive and collaborative virtual prototyping
- Human body visualization (research areas in online medical education)
- Interactive computation fluid dynamics for the cloud

Kwapi



Kwapi is a telemetry framework :

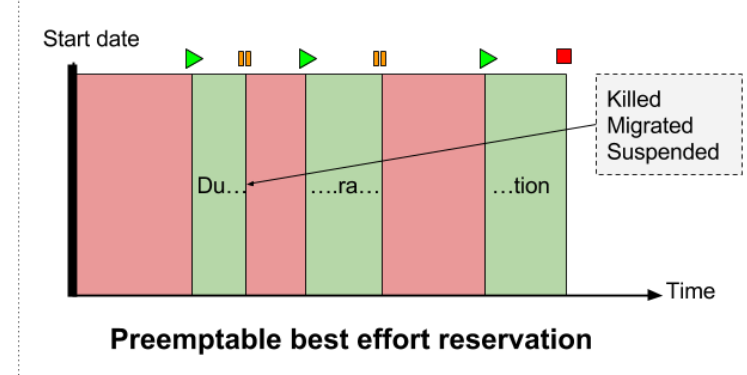
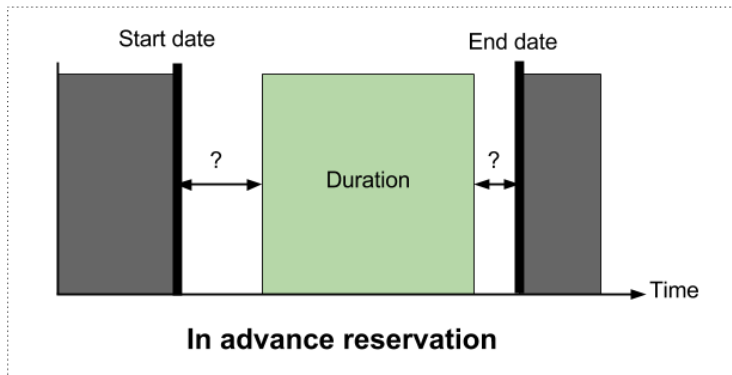
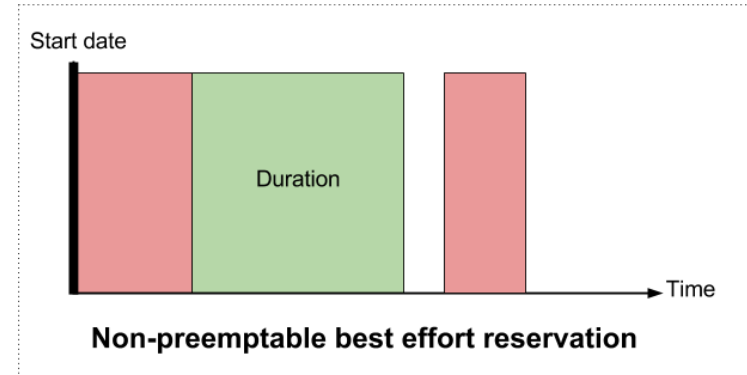
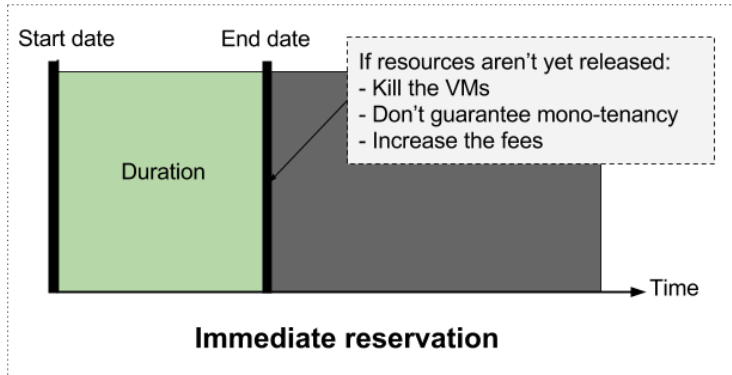
- Supporting various wattmeters
- Distributed architecture
- Integrated with OpenStack

Kwapi



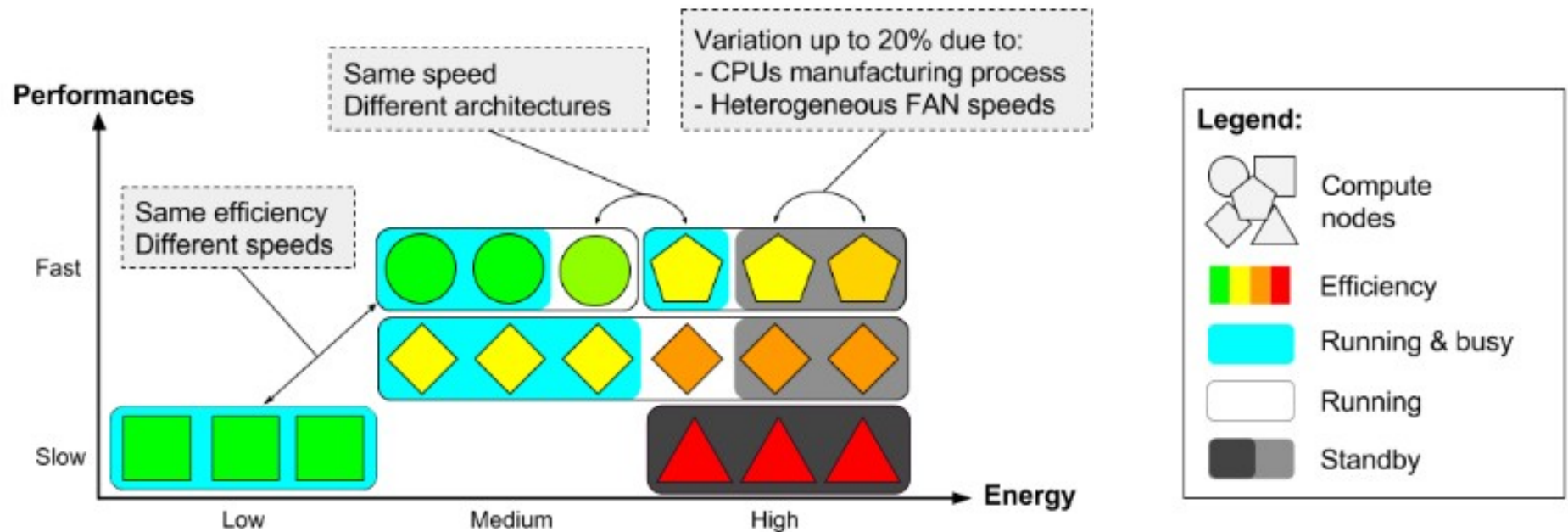
The Kwapi visualization plugin allows to monitor the power consumption of compute nodes.

Blazar



Blazar is a resource reservation framework allowing different reservation types depending on use cases.

Host ranking and standby modes



Compute hosts are sorted and managed by efficiency (flops/w)