Introducing safeguards to OpenStack

Ironic

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- 9.6k server nodes
- ~450k cores
- Wide range of applications
What is OpenStack Ironic?

OpenStack

- Cloud computing platform
- Open source community

Ironic

- Bare metal component of OpenStack
- Registration to retirement
- Standalone or integrated
Ironic Safeguards

- Node cleaning and deployment
  openstack baremetal node manage
  openstack baremetal node provide

1. Skip list of devices
2. Node cleaning limiter
1. Skip List of Devices

- User definable
- Hidden completely
- Example use case: Mailing server node
  - Back up and load data
2. Node Cleaning Limiter

- The problem
  - No limit for cleaning jobs
  - Difficult/impossible to stop

- The solution
  - Raise an error
  - Queue requests