



Introducing safeguards to OpenStack Ironic



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IT at CERN



Image source: Dell

- 9.6k server nodes
- ~450k cores
- Wide range of applications



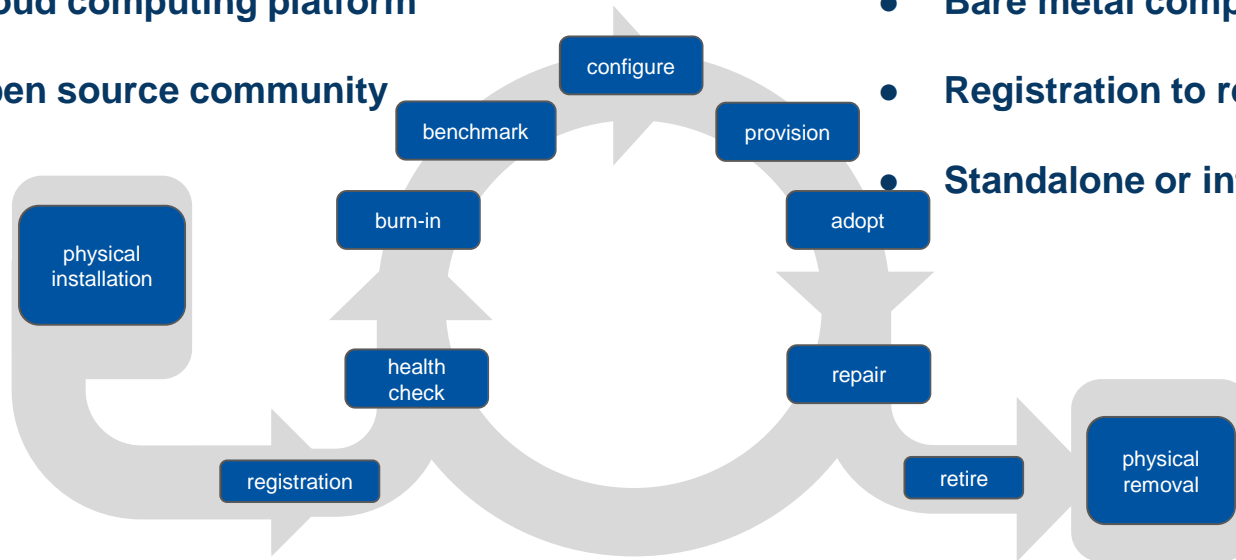
Image source: Wikipedia

What is OpenStack Ironic?



- Cloud computing platform
- Open source community

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



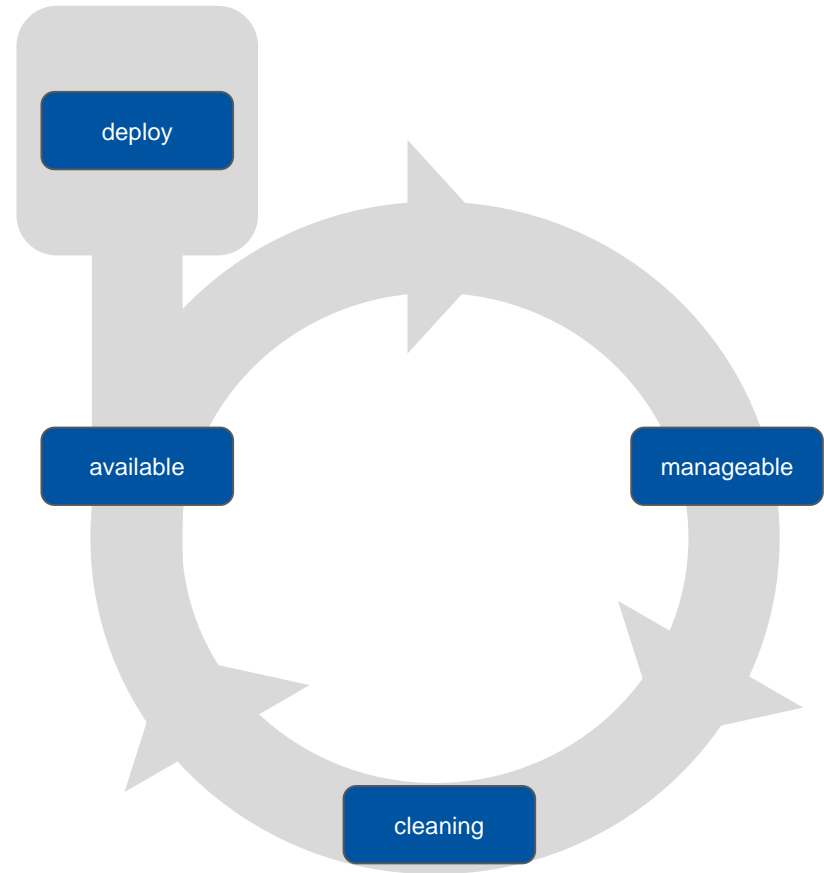
Ironic Safeguards

- **Node cleaning and deployment**

`openstack baremetal node manage`

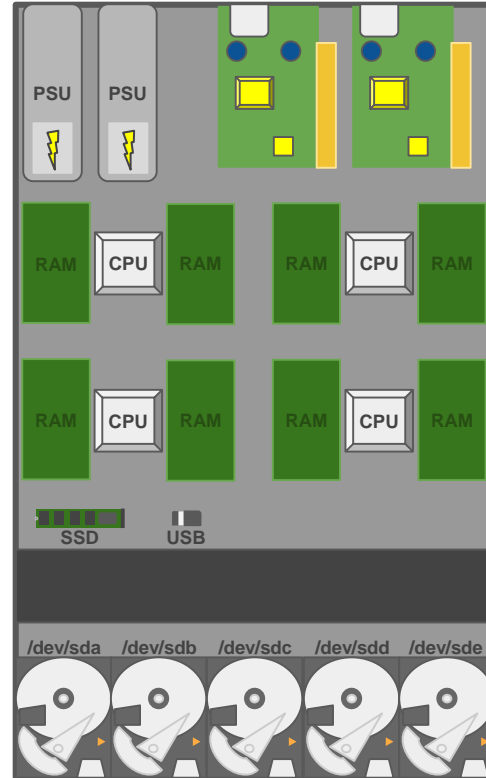
`openstack baremetal node provide`

1. **Skip list of devices**
2. **Node cleaning limiter**



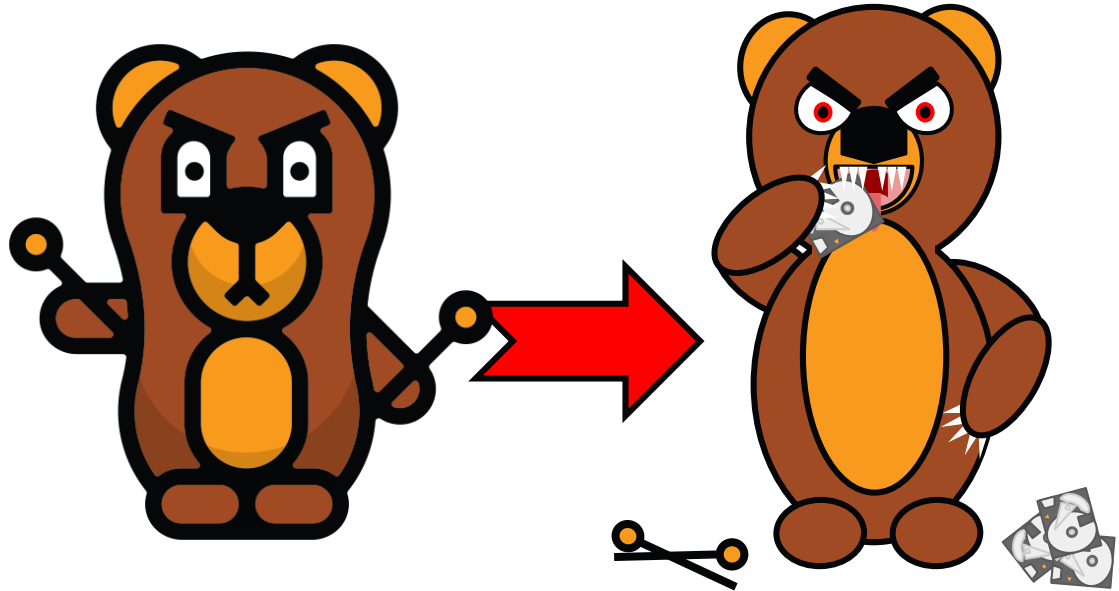
1. Skip List of Devices

- 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





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