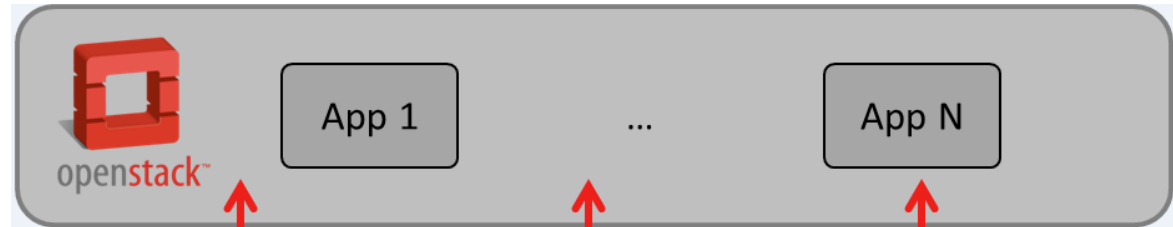# AM API + Federation API

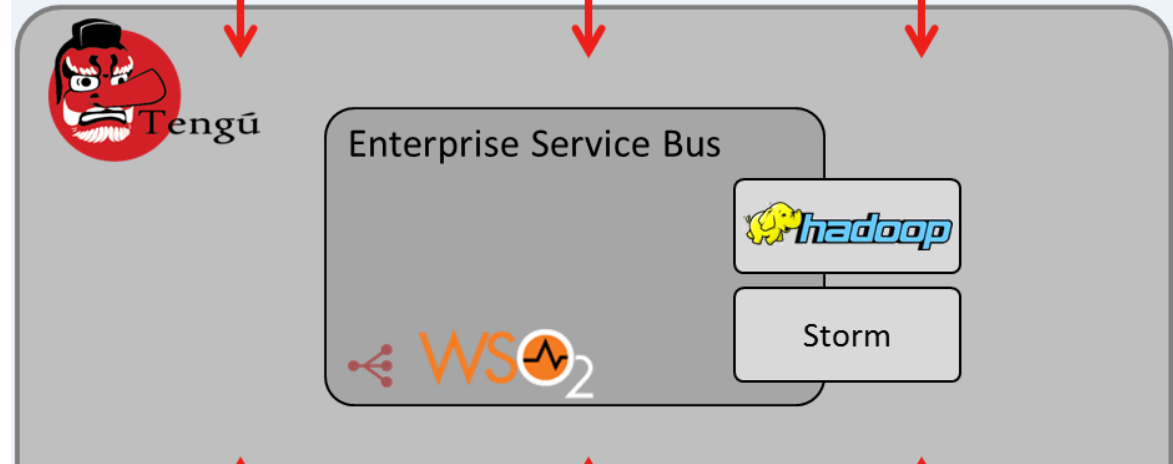Brecht Vermeulen

APIs

- AM API: resource allocation
  - GENI v2, v3: lots of implementations in production
    - http://groups.geni.net/geni/wiki/GAPI_AM_API_V3
  - Common API v1
    - Slightly improved GENI v3 with removal of geni_
    - https://fed4fire-testbeds.ilabt.iminds.be/asciidoc/federation-am-api.html (github source)
  - Ontology research track
- Federation APIs: slices, credentials, "clearing house"
  - v1 (not in use), v2
  - http://groups.geni.net/geni/wiki/CommonFederationAPIv2
  - GENI portal (long in production)
  - C-BAS:
    - Standalone implementation: https://github.com/dana-i2cat/felix/wiki/C-BAS (beta, lacking user registration frontend)
    - Currently in FELIX project
  - Emulab: upgrade protogeni proprietary to Fed. API v2 in beta

Speaks for take up

Cloud-on-demand

Hadoop/Storm/Lambda
-on-demand

POST */tengu/*{type}?nodes={nr}&testbed={urn}&project{str}&speaksfor

Powered by RSpec
and Chef

Future of APIs

- AFAIK: No standardisation organisation for this
- Open model through github and google group
  - Cf. GCF
  - Also involvement beyond US and EU