



HIFIS

HELMHOLTZ
FEDERATED
IT SERVICES

**"FEDERATED OPENSTACK - FUTURE IAAS
LANDSCAPE"
BREAKOUT SESSION C ON 21.ST OCTOBER 2020**

Janne Schulz (KIT)
Service Integration





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Breakout C: Federated OpenStack

Future IaaS landscape



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Future IaaS landscape

Stage 1

- Evaluation of current situation
- Collect & Gather information
- Which OpenStack Release is used in which site?
- What about the operating model?

Time

Site 1

OpenStack
Environment

Site 2

OpenStack
Environment

Breakout C: Federated OpenStack

Future IaaS landscape

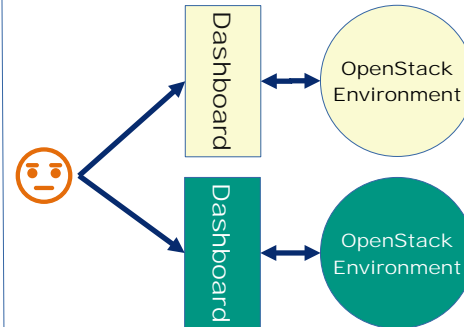
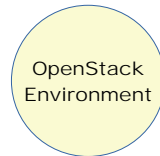
Stage 1

- Evaluation of current situation
- Collect & Gather information
- Which OpenStack Release is used in which site?
- What about the operating model?

Stage 2

- Connecting OpenStack to Helmholtz AAI (unless already done)
- „N-Islands Landscape“: Every SPs stands for its own service
- Heterogenous operating parameters & environments (different flavors, resources, quotas...)

Time →



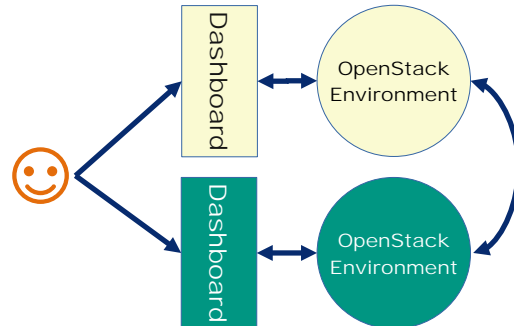
Breakout C: Federated OpenStack

Future IaaS landscape

Stage 3

- Evaluation of first OpenStack-to-Openstack connection (e.g. Keystone federation)
- Development of shared operating params:
 - Upgrade to same OS Release?
 - Base-set images
 - Base-set flavors ...

Time



Breakout C: Federated OpenStack

Future IaaS landscape

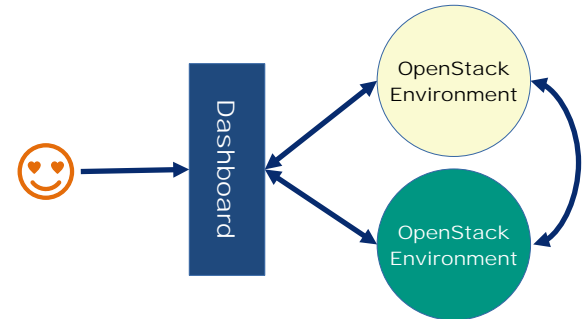
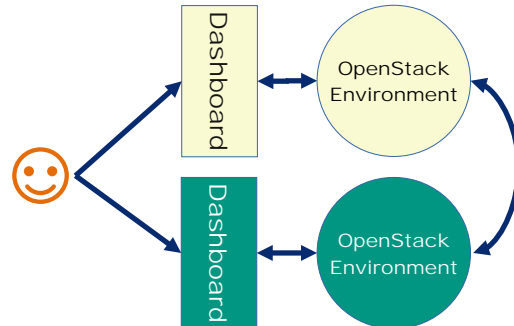
Stage 3

- Evaluation of first OpenStack-to-Openstack connection (e.g. Keystone federation)
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Stage 4 – The future?!

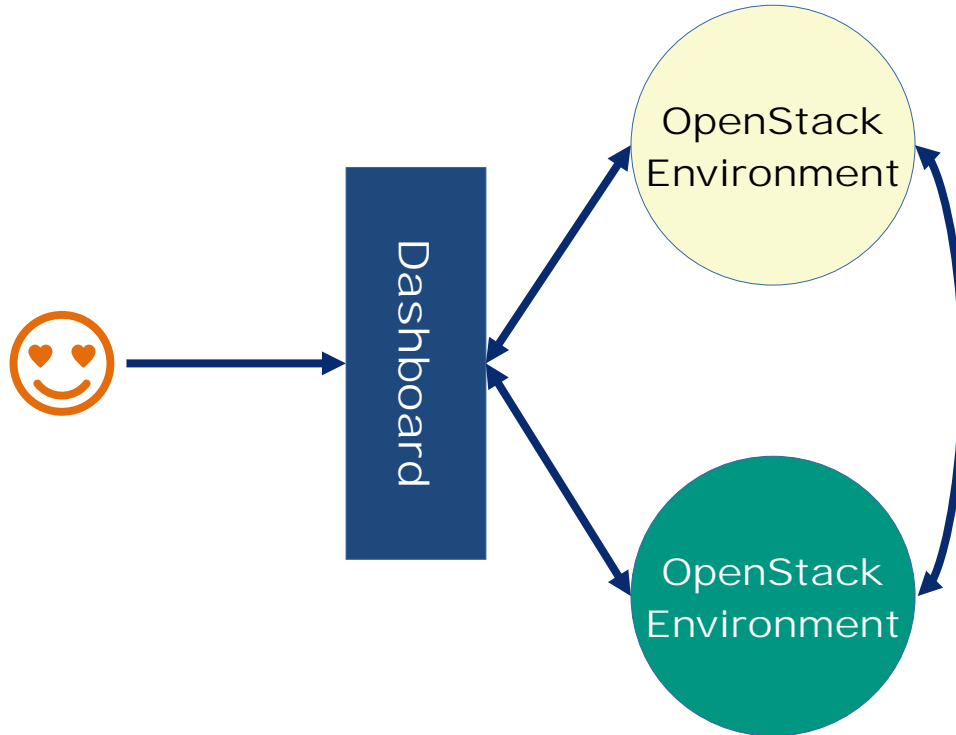
- There is one central Horizon Dashboard
- Selection of the OpenStack-site is done via dropdown
- User can export-copy-import their machines & images between sites
- There is a federated OpenStack administration group which can help on different sites ...

Time →



Breakout C: Federated OpenStack - Future IaaS landscape

Could that work out? Lets discuss!



Jump back into our central videoconference

Thank you for your participation

- 16:30 : Jump back into the Room „Open Topic Brainstorming: Summary & Discussion”

https://meet.desy.de/invited.sf?secret=kfpjY_SKAIUbyl9ddNeIFA&id=629764409