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Containerize OpenStack

LESSONS, TOOLS, AND FUTURE



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- *Red Hat*
- *Member of the Technical Committee*
- *Former Zaqar PTL*
- *Former Glance PTL*

@FLAPER87

FLAVIO@REDHAT.COM



- *Engineer in the Office of Technology @ Red Hat*
- *Member of the Technical Committee*
- *Former Zaqar PTL*
- *Former Glance PTL*

@FLAPER87

FLAVIO@REDHAT.COM



WHY?

*Deploying OpenStack is
“easy”. Day 2 operations
are the real challenge*



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Service Isolation

WHY



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Ease of upgrades

WHY

Deployment Flexibility



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Ease of scalability

WHY

Address user needs

WHAT?

*Every service in the
stack, hopefully.*

Some OpenStack services



Just OpenStack services

OpenStack + Third party



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EXISTING TOOLS?

Tools you can use



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TripleO

HOW



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kolla-kubernetes

HOW



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openstack-ansible

HOW



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HOW?

*Forget tools for a sec. Let's
review the architecture*



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Label your nodes

HOW

1 service per container



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*Avoid containers
placement*

HOW



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Separate bootstrap tasks

HOW



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*Don't abuse filesystem
mounts*

HOW

Common config management



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Ansible roles

HOW



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CONTRIBUTE

Where can we contribute?



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*Containerize
third-party drivers*

STILL



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Configuration Management

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Defining/Testing the architecture

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*Participate in
community discussions*



QUESTIONS?