

A Tour of OpenStack Deployment Scenarios

FOSSCON 2016

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Elizabeth K. Joseph

- Senior Automation & Tools Engineer at HPE
- Joined the OpenStack Infrastructure Team in 2013, core and root member
- Author of Common OpenStack Deployments, published by Prentice Hall, September 2016

OpenStack

- Founded in 2010
- Open Source cloud, written in Python
- Vast marketplace of supportive companies in the ecosystem:
<https://www.openstack.org/marketplace/>

OpenStack can build clouds that:

Offer compute power

Handle storage (object, block)

Orchestrate bare metal systems

...

And more each release



Private Compute Cloud with Nova

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Spinning up an instance (demo)

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Public Compute Cloud with Ceilometer

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Polling service data (demo)

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Block Storage Cloud with Cinder

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Add block storage (demo)

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Object Storage Cloud with Swift

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Add object storage (demo)

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Bare metal “Cloud” with Ironic

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Containers in the Cloud with Magnum

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Database Cloud with Trove

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Cloud, with SDN!

with Neutron

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Cloud, with DNS! with Designate

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More OpenStack Services

Project Navigator:

<https://www.openstack.org/software/project-navigator/>

OpenStack Project Teams:

<http://governance.openstack.org/reference/projects/>

Vendor Support and Hybrid Clouds

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Questions?

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Try demos at home/office, see:

<http://princessleia.com/presentations/fossccon2016.txt>

Common OpenStack Deployments

<http://deploymentsbook.com/>

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