A Tour of OpenStack Deployment Scenarios

Ohio LinuxFest 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
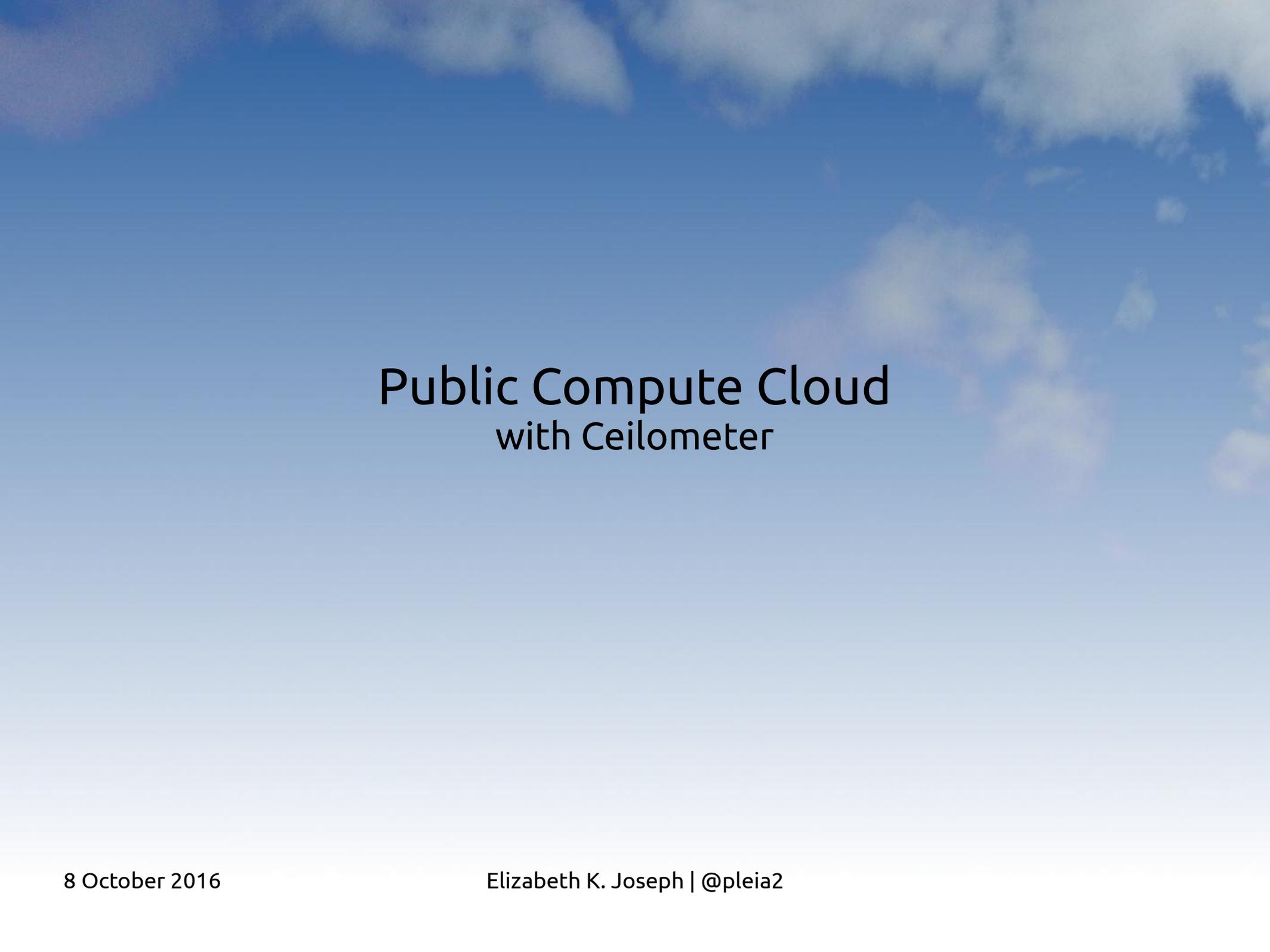
Private Compute Cloud
with Nova

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Spinning up an instance
(demo)

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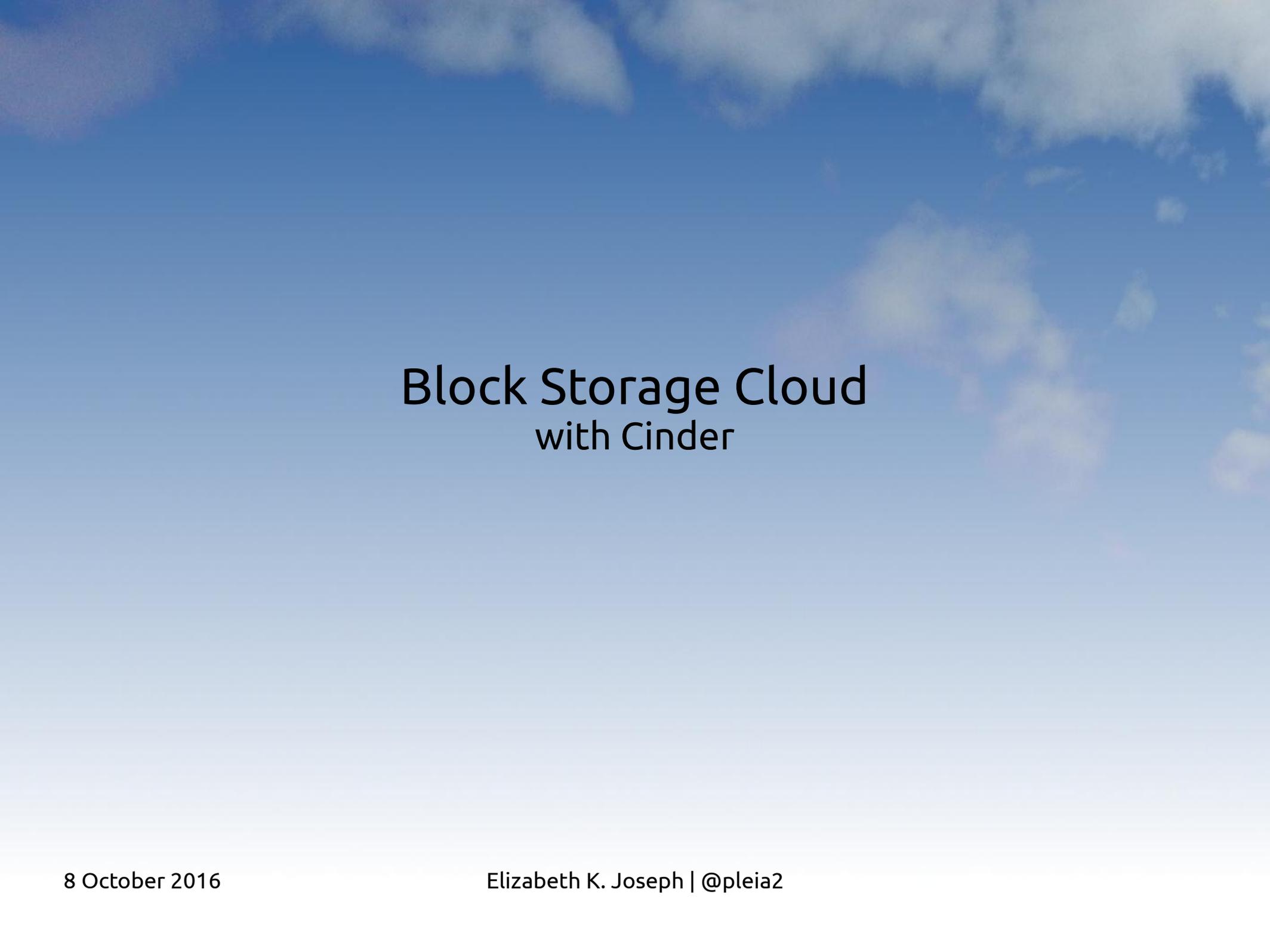
Public Compute Cloud
with Ceilometer

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Polling service data
(demo)

Block Storage Cloud
with Cinder

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Add block storage
(demo)

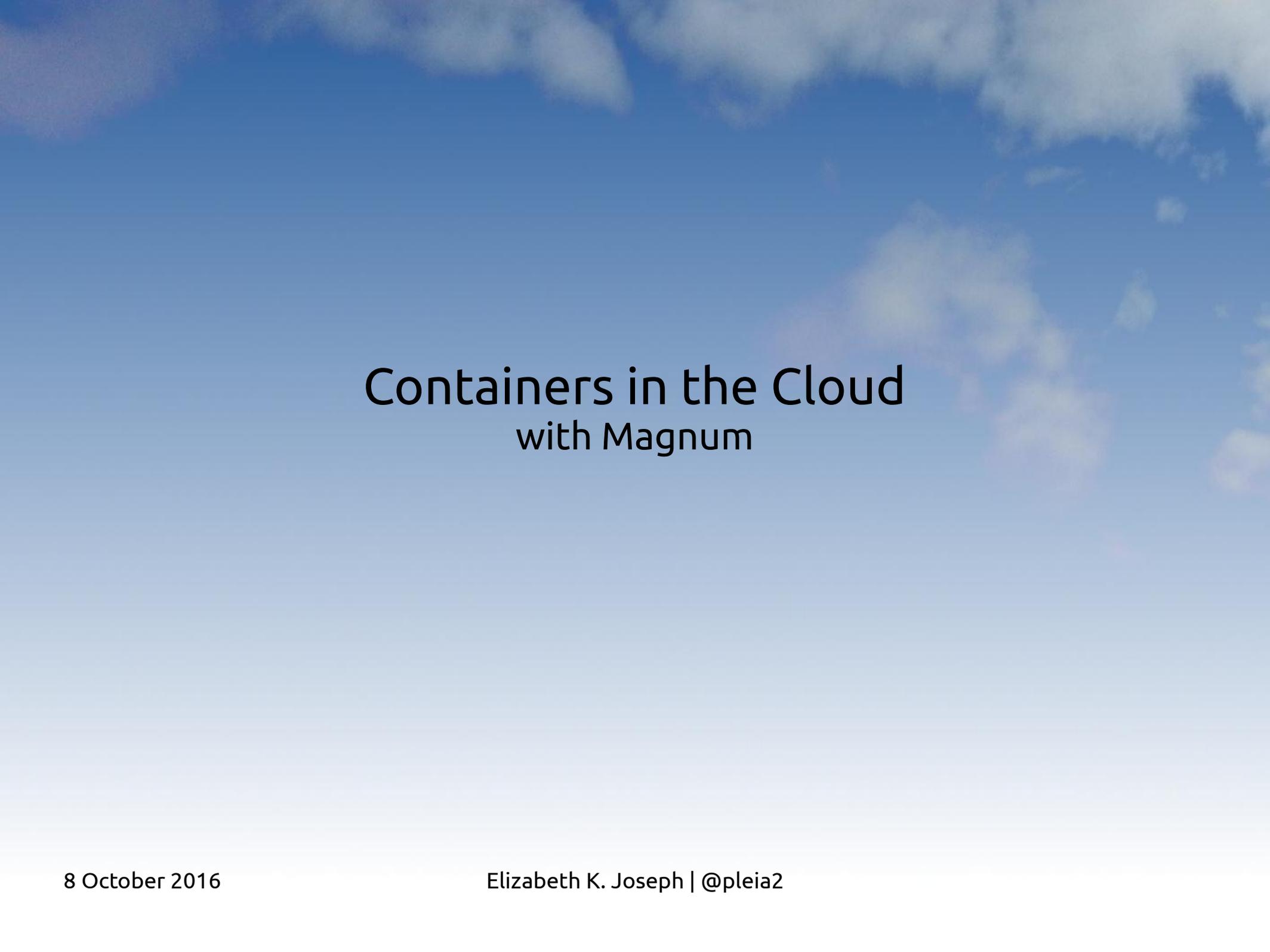# Object Storage Cloud
with Swift

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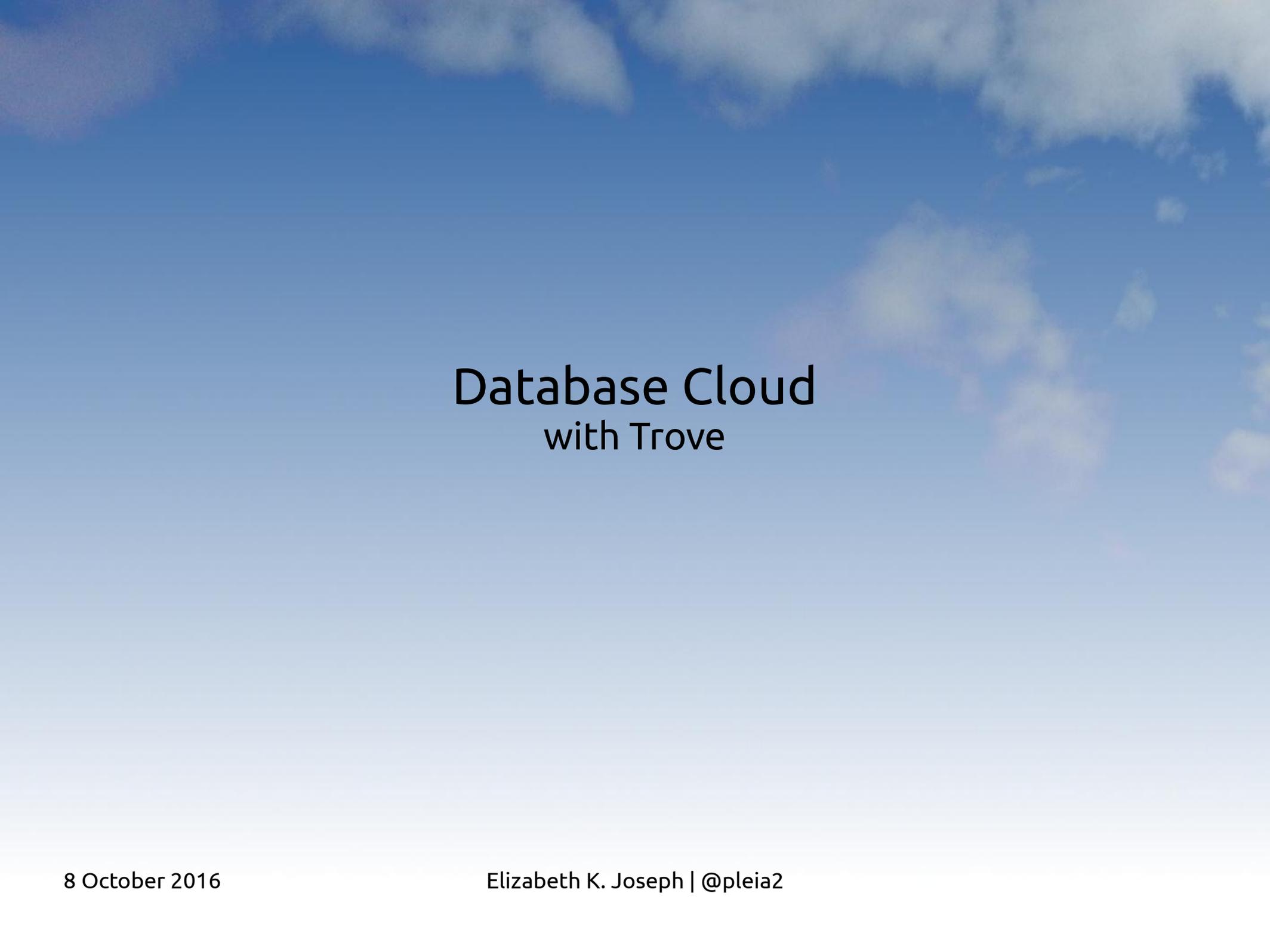# Add object storage
(demo)

Bare metal "Cloud"
with Ironic

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Containers in the Cloud
with Magnum

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Database Cloud
with Trove

Cloud, with SDN!
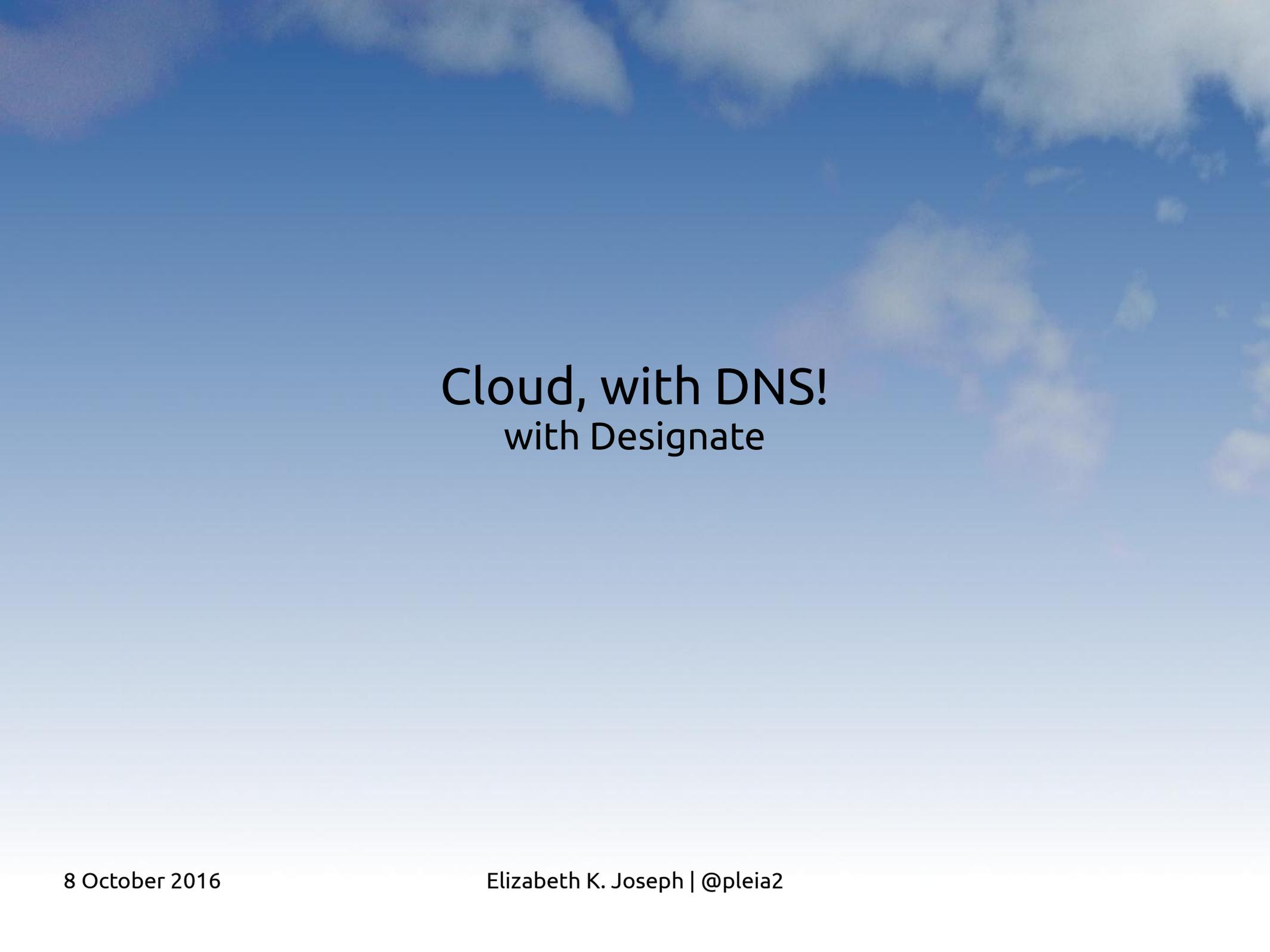## with Neutron

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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?

Contact:
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Try demos at home/office, see:

http://princessleia.com/presentations/olf2016.txt

Common OpenStack Deployments
http://deploymentsbook.com/