



# Monasca

## Project overview and update

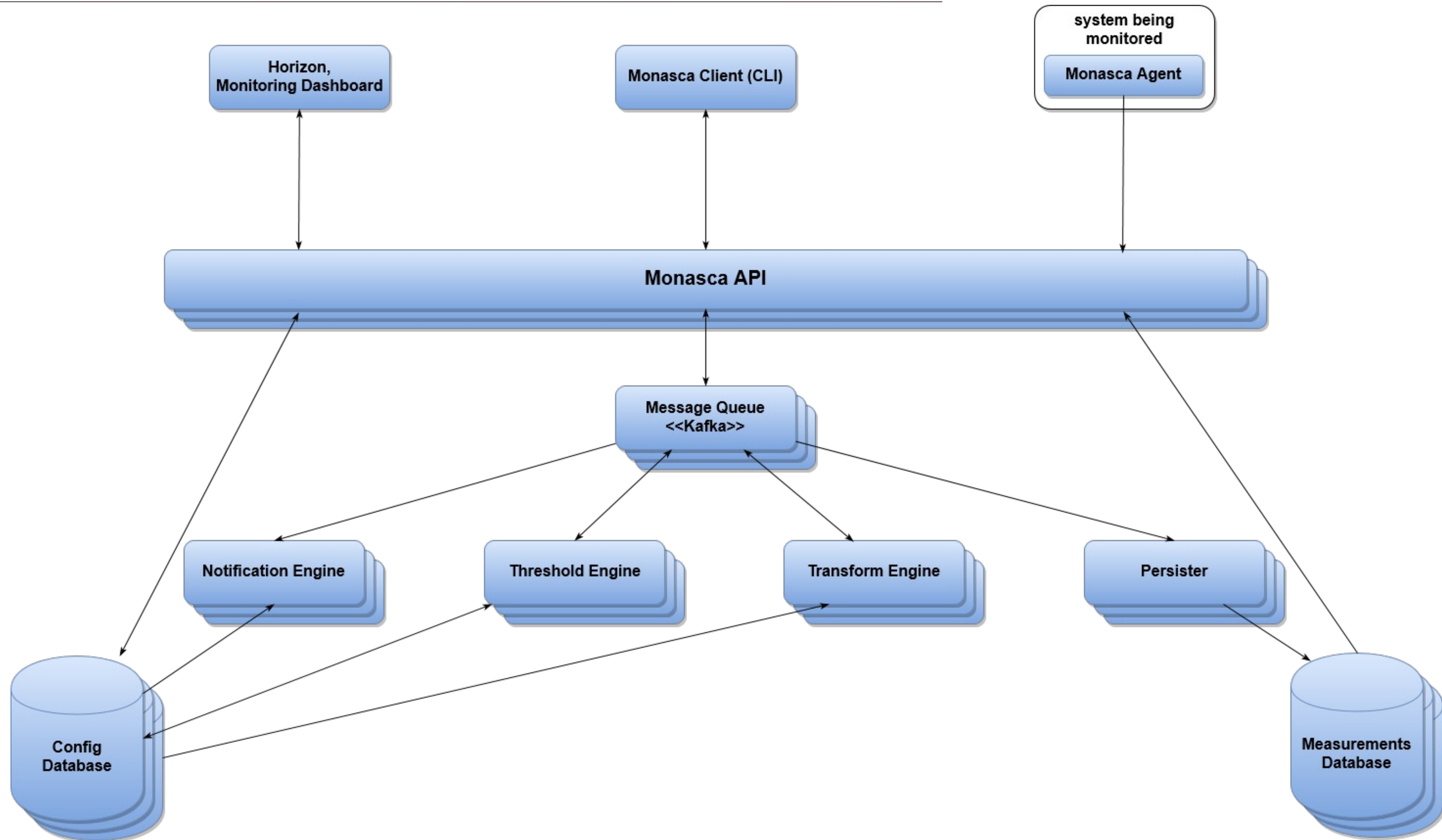
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Witek Bedyk (irc: witek)

## What does Monasca do?

- Monitoring-as-a-Service
- multi-tenant
- high-performant
- HA / fault tolerant
- scalable
- PUSH model
- Amazon CloudWatch equivalent





# Project background

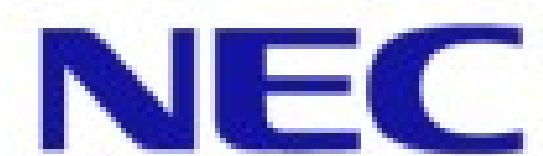
- Founded during the Liberty release of OpenStack
- 55 contributors for latest release

Latest user survey adoption numbers:

- Deployed: 10%
- Considering: 20%



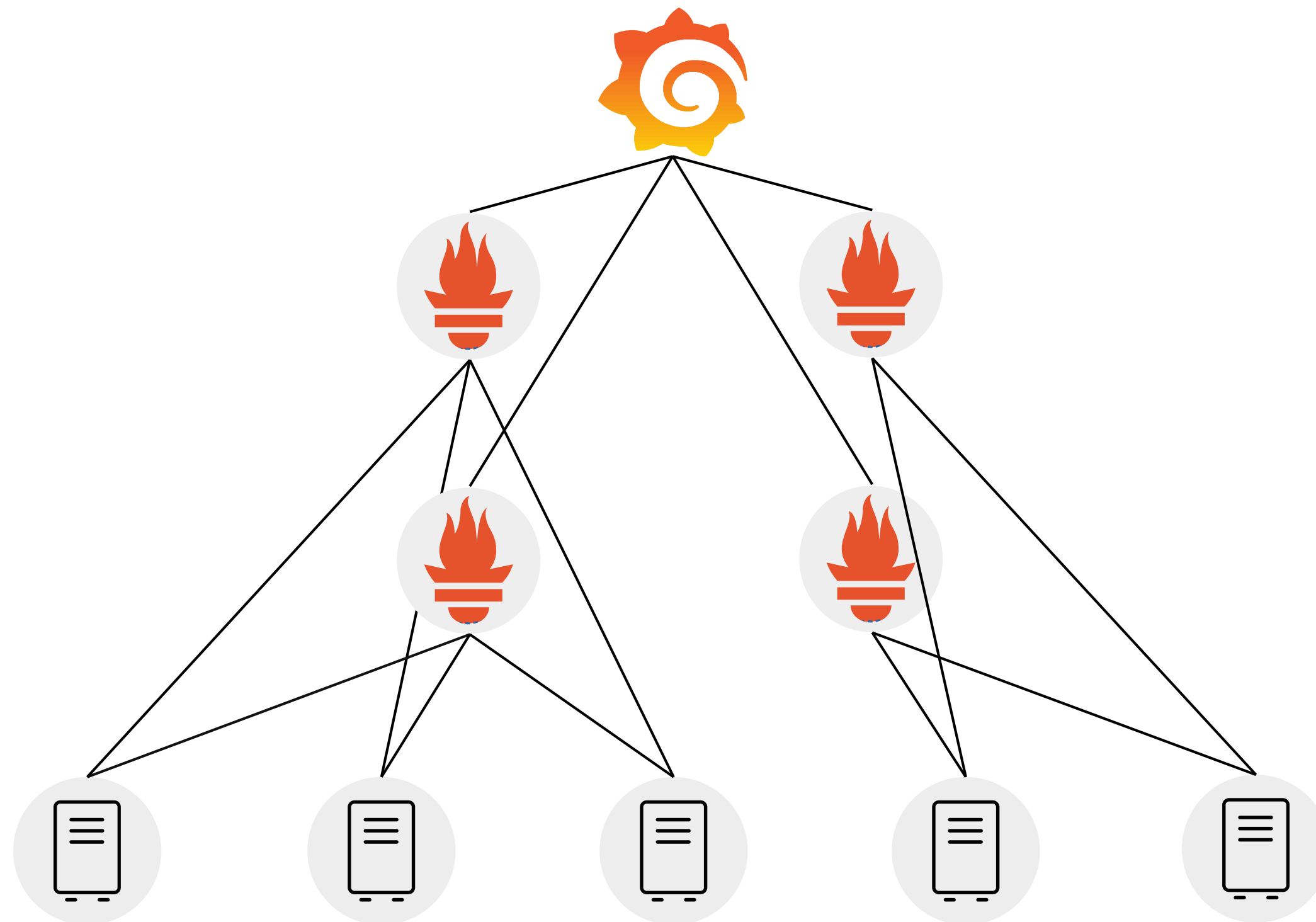
# Main Contributors



# Comparison

	Monasca	Prometheus	Telemetry
model	push	pull	push
multi-tenant	+	-	+
HA	+	○	+
scalability	+	○	+
historical data	+	○	+
alerting	API	YAML	API
delivery guarantee	+	-	-
high-performant	+	+	-
query language	+	++	+
community	small	large	maintanace

# Prometheus cluster



Credits: Jan Fajerski, SUSE

# Prometheus

- first choice for operators
  - no multi-tenancy
- small deployments
  - limitations of HA/scalability



# Monasca

- Monitoring-as-a-Service
  - operator and user metrics
  - alerting
- large deployments
- push model
  - short-lived jobs
  - irregular metrics
- delivery guarantee
- can scrape Prometheus endpoints

# Telemetry

- existing deployments only
- billing, metering

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## Stein work

- Create Docker images in OpenDev CI
  - <https://storyboard.openstack.org/#!/story/2001694>
- Major refactoring and merging APIs
  - <https://storyboard.openstack.org/#!/story/2003881> (work in progress)
- Kafka client upgrade
  - <https://storyboard.openstack.org/#!/story/2003705> (work in progress)
- Move build-in notification methods to plugins
  - <https://storyboard.openstack.org/#!/story/2003801>
- Clean up and unify services configuration

# Community-wide goals

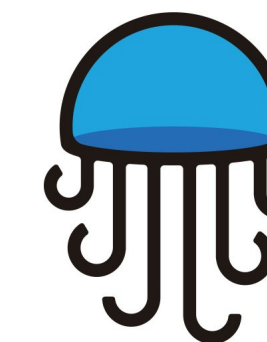
- Run under Python 3 by default
- Pre upgrade checks
  - <https://review.opendev.org/#/c/603465/>

# Possible features & enhancements for Train

- New thresholding engine
- Extended (new) query language
- Use Keystone's application credentials in Grafana
- Sharding support for InfluxDB
- Add Monasca to OpenStack Helm

# Cross-Project Work

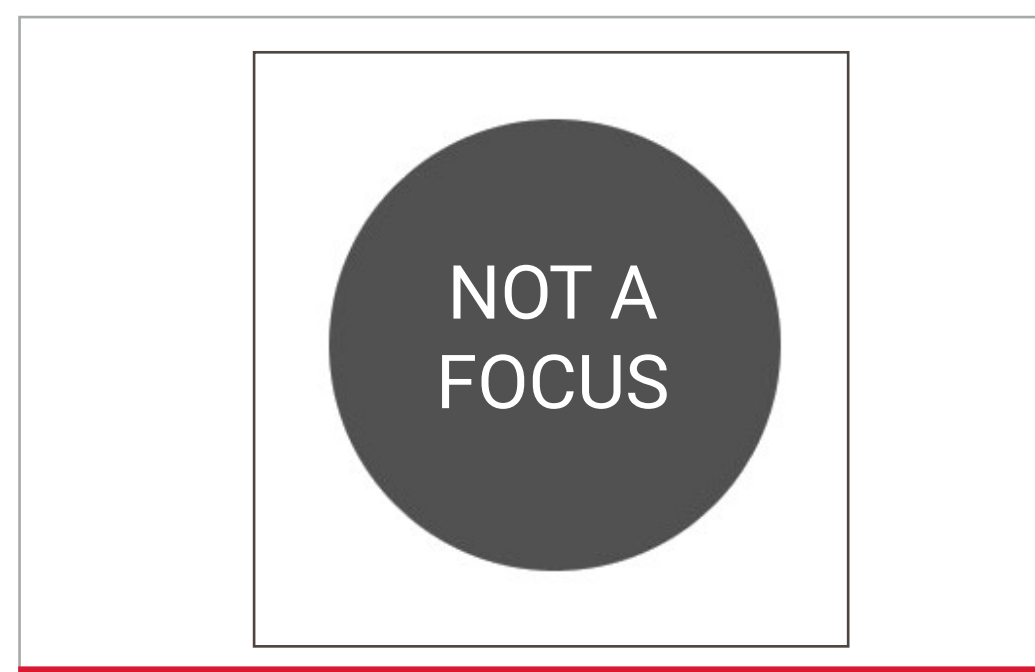
	Existing	Planned
Alert	Heat Congress	Senlin Vitrage Watcher Mistral Zaqar
Datasource	CloudKitty Watcher	
Other	Ceilometer	



# “T” release themes for Monasca



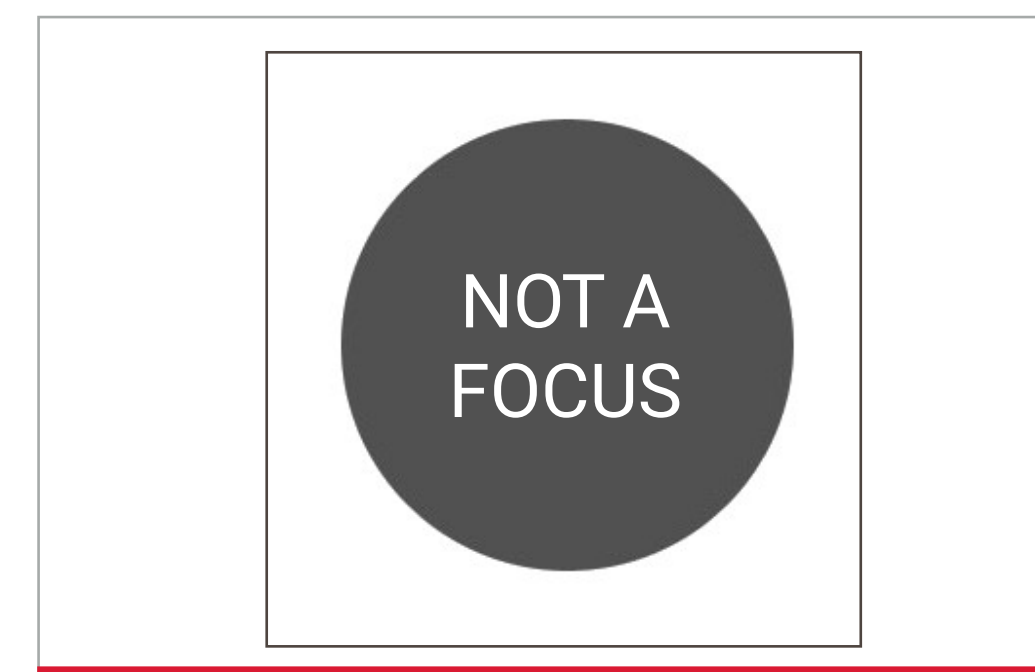
SCALABILITY



RESILIENCY



MANAGEABILITY



MODULARITY



INTEROPERABILITY



SECURITY



USER EXPERIENCE

# We want your feedback

- Mailing list (please add [monasca] tag)

[openstack-discuss@lists.openstack.org](mailto:openstack-discuss@lists.openstack.org)

- IRC at freenode

#openstack-monasca

- Weekly team meeting

Wednesdays 1500 UTC

#openstack-monasca

[http://eavesdrop.openstack.org/#Monasca\\_Team\\_Meeting](http://eavesdrop.openstack.org/#Monasca_Team_Meeting)



# How to contribute

- Kanban board (backlog, reviews)  
<https://storyboard.openstack.org/#!/board/141>
- Bugfixes  
<https://storyboard.openstack.org/#!/worklist/213>
- Cross-Project Integrations
- Installers
- Documentation

# Monasca in Denver

- **Monasca Project Onboarding**  
Tue 2:30pm – Room 406
- **Monitoring and Analyzing your OpenStack Cloud**  
Wed 9:00am – Meeting Room Level, 4D
- **Monasca and 25,000+ Instances in Production - User Story**  
Wed 11:40pm – Meeting Room Level, 401/402
- **PTG**  
Fri – Sat, Hyatt Regency, 210

# THANKS.

Questions?



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