



Monasca

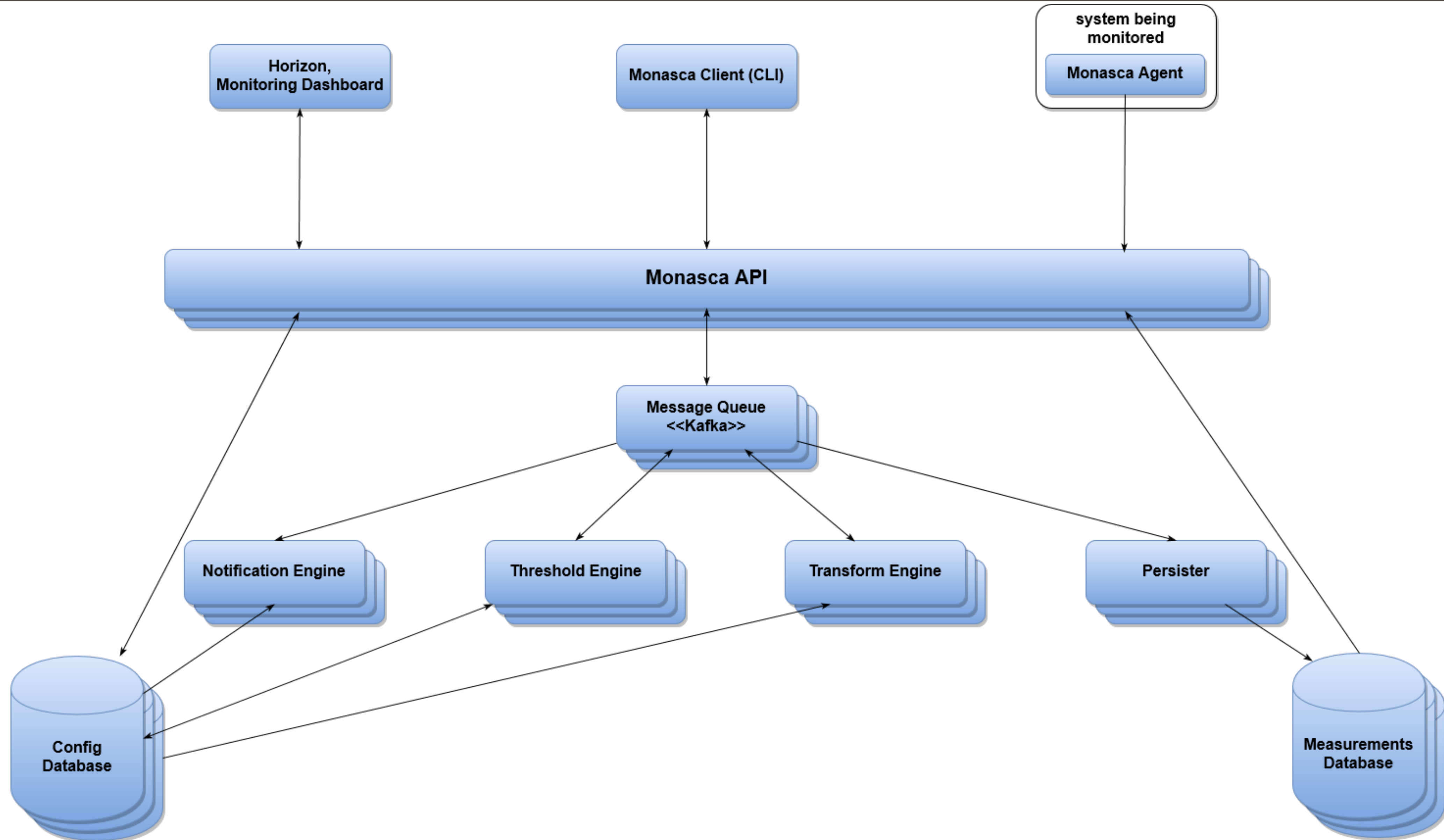
Project Update, OpenStack Summit Berlin

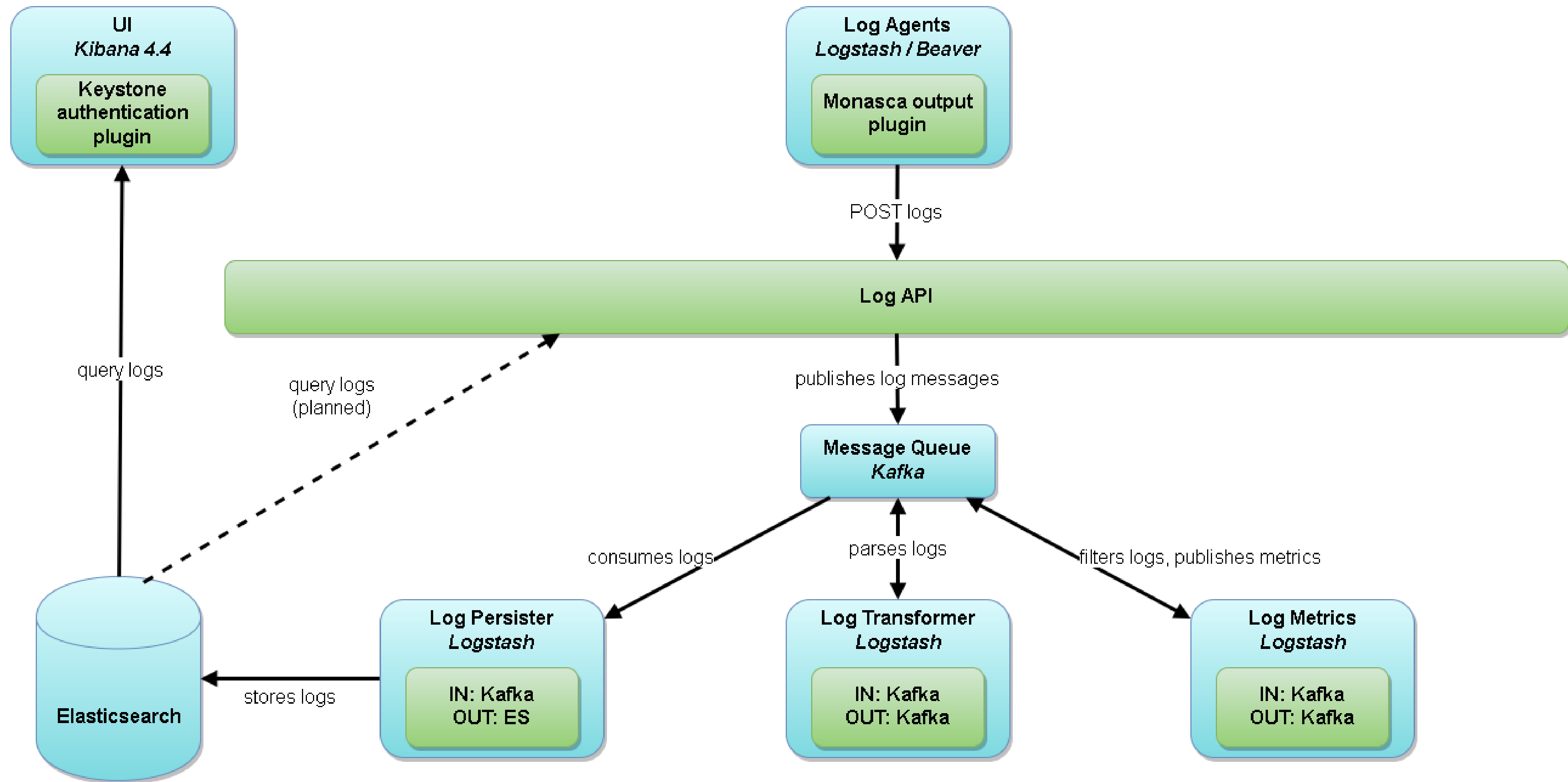
Witek Bedyk (irc: witek)

What is Monasca?

- Monitoring-as-a-Service
- Microservices message-bus based architecture
- Highly available / fault tolerant
- Scalable
- High performant
- Multi-tenant
- Push and pull metrics







Main Contributors





Rocky Features

Database Migrations (Alembic)

- Excellent handling of DB schema changes
- Clean workflow for developers
- Operators can safely upgrade between the versions

<https://storybook.openstack.org/#!/story/2001654>

Ceilometer Publisher

- Push Ceilometer measurements to Monasca API
- Avoid reinventing the wheel
- Easier installation

<https://review.openstack.org/562400>

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Ceilometer Publisher

Plan B

- Update monasca-ceilometer plugin

<http://git.openstack.org/cgit/openstack/monasca-ceilometer/>

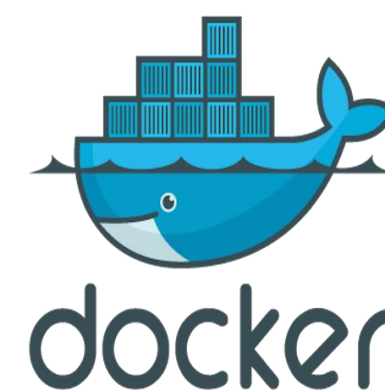
Monasca Transform

- use cases:
 - aggregate individual metrics
 - combine metrics and derive new one
 - rate of change
- Simplify and clean up configuration
- Improve documentation
- Upgrade middleware

<https://storybook.openstack.org/#!/story/2001815>

Deploying

- SUSE OpenStack Cloud
- Kolla
- Docker Compose (monasca-docker)
- OpenStack Ansible
- Kubernetes (monasca-helm)

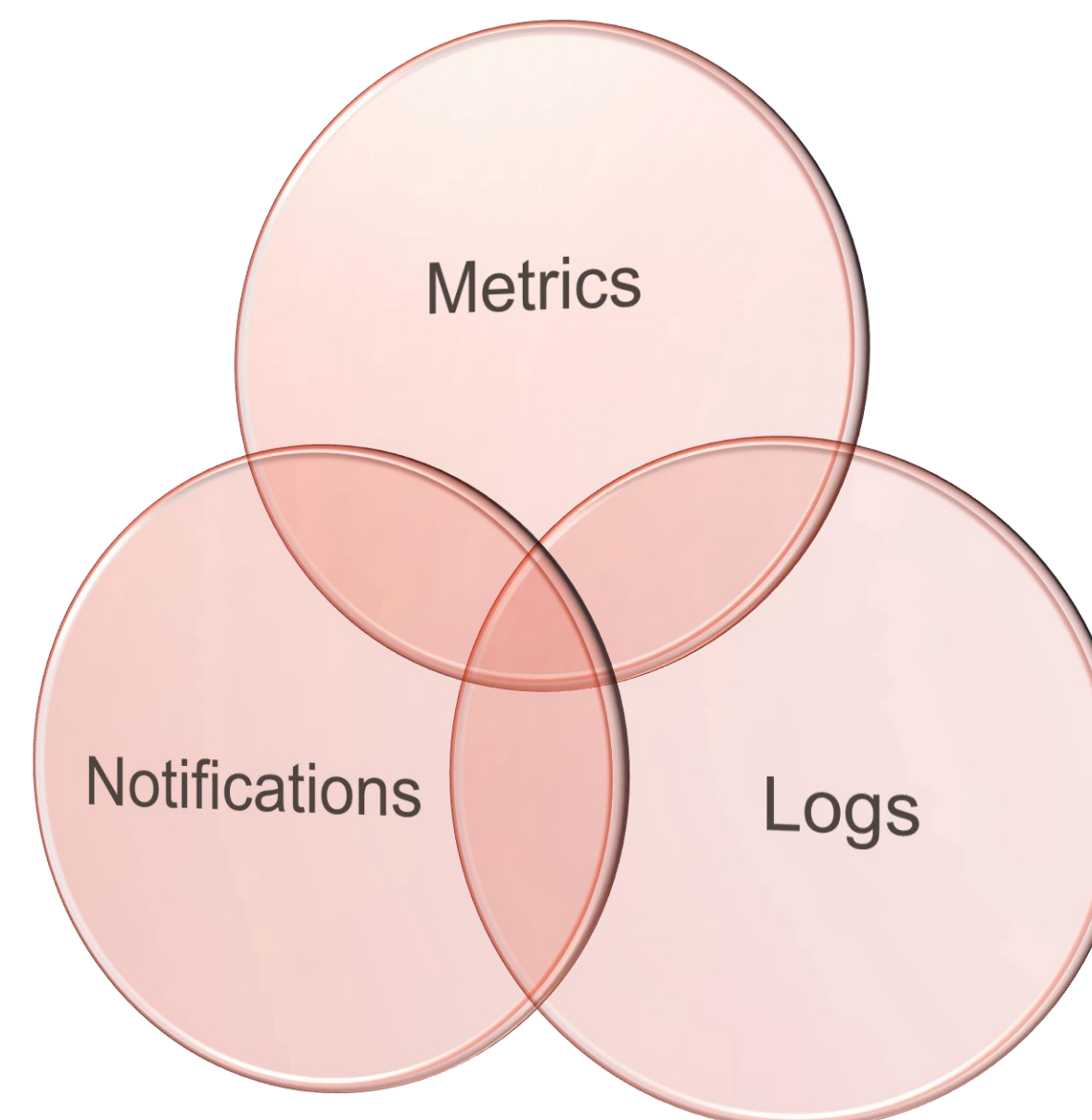




Stein Features

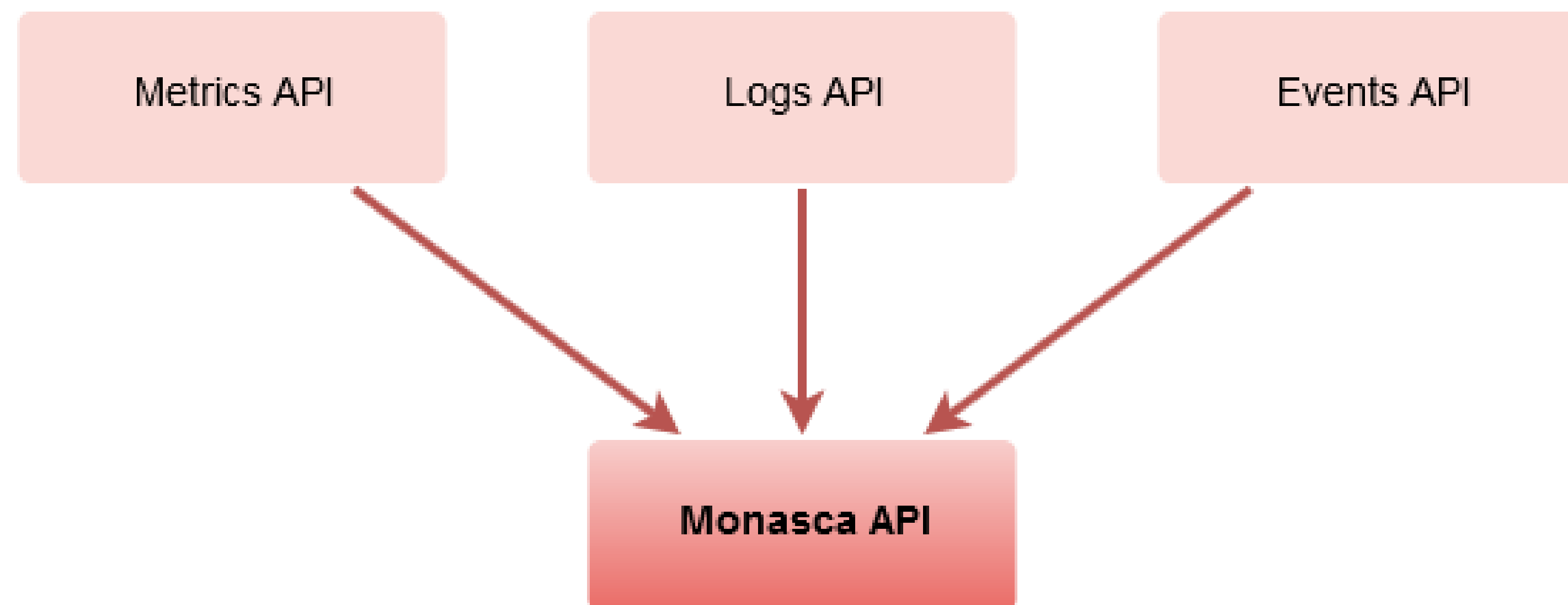
Metrics + Logs + Notifications

- Logs/Notifications and Metrics are complementary
- Provide Single Pane of Glass
- Correlate different sources of information
- Derive event-based metrics
 - System performance
 - Utilization
 - Status/Errors



Merge APIs

- Reduce technical debt
- Same user experience
- Easier deployment and operation

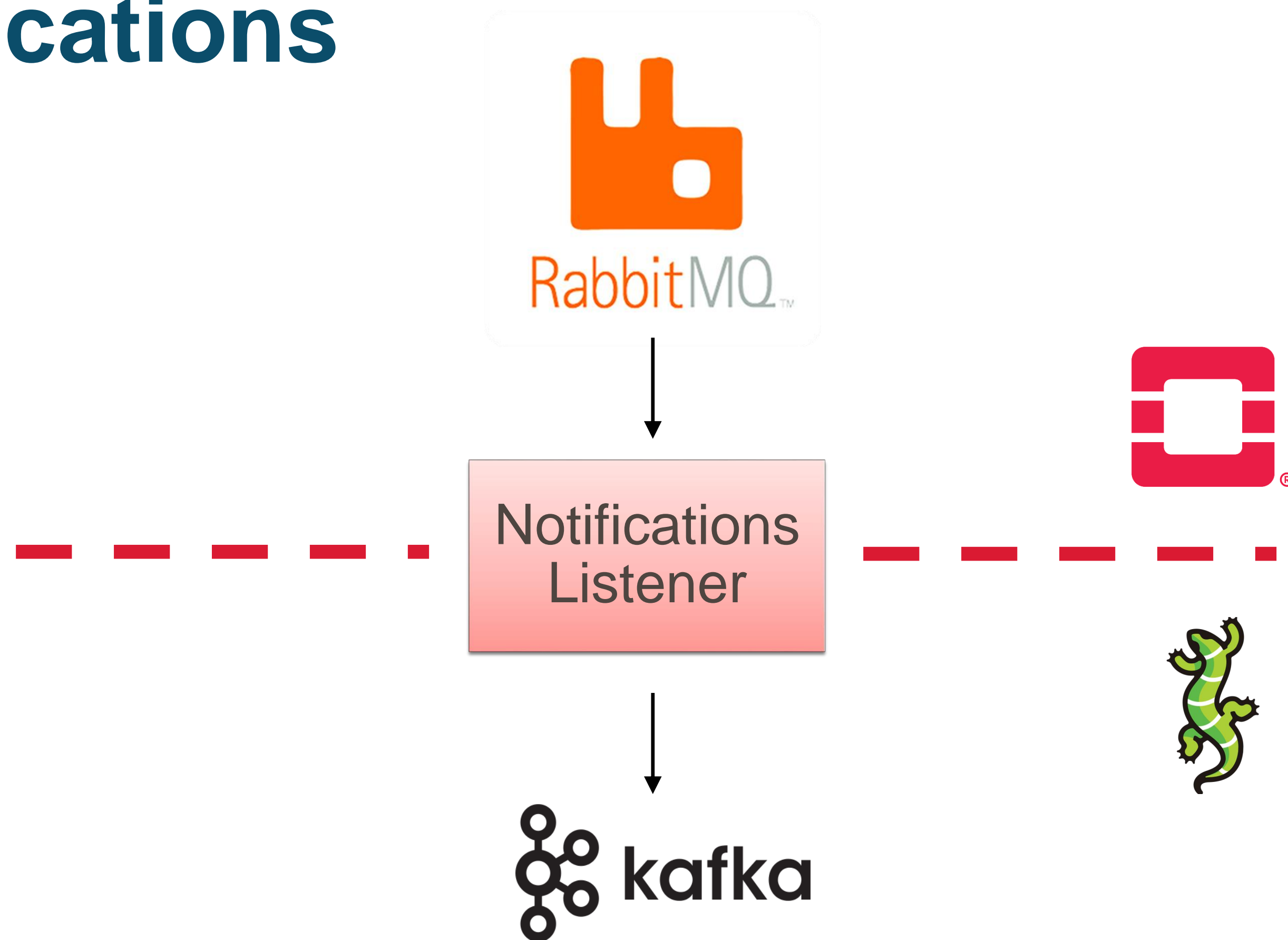


<https://storyboard.openstack.org/#!/story/2003881>

Collect OpenStack Notifications

- Subscribe to RabbitMQ queue
- Publish to Apache Kafka
- Filter subscribed notifications
- Extract data, e.g. project ID

<https://review.openstack.org/583803>



GET /logs GET /events

- Add generic query API
- Filter on dimensions
- Provide statistics

<https://storybook.openstack.org/#!/story/2000934>

Apache Kafka upgrade

- Upgraded to Apache Kafka 1.0.x
- Change Kafka client to *confluent-kafka-python*
- Use asynchronous interfaces for better performance
- Extensive testing required

Cross-Project Work

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



We want your feedback

- Mailing list (please add [monasca] tag)
openstack-discuss@lists.openstack.org
- IRC at freenode
#openstack-monasca
- Weekly team meeting
Wednesdays 1500 UTC
#openstack-meeting-3
http://eavesdrop.openstack.org/#Monasca_Team_Meeting

How to contribute

- Kanban board (backlog, reviews)
<https://storyboard.openstack.org/#!/board/111>
- Bugfixes
<https://storyboard.openstack.org/#!/worklist/467>
<https://storyboard.openstack.org/#!/board/114>
- Cross-Project Integrations
- Installers
- Documentation

Monasca in Berlin

- **Monasca Project Onboarding**
Tue 3:20pm – Level 3 - M1
- **Monitoring Hands-On Workshop**
Tue 4:20pm – Level 1 - 7.1a / NY1
- **Monitoring as a Service in the HPC Cloud**
Wed 3:30pm – Level 2 - Marketplace Demo Theater

Q&A

Thank you!



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