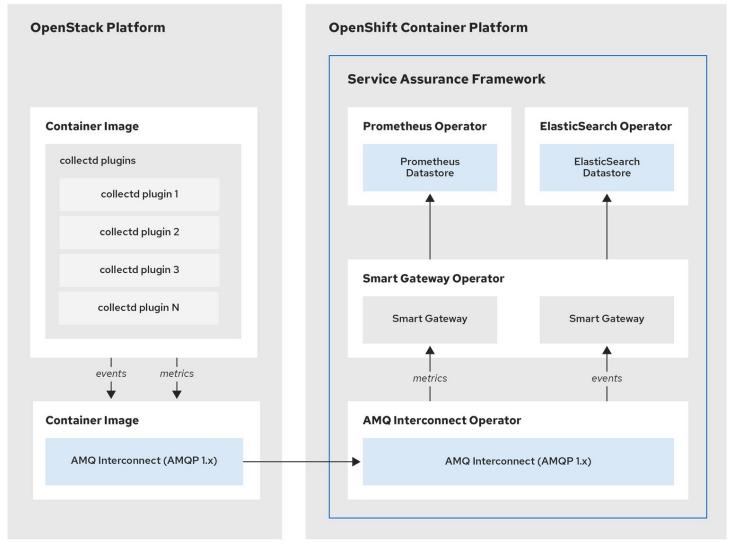
SAF and closed-loop automation

Matthias Runge Senior Software Engineer



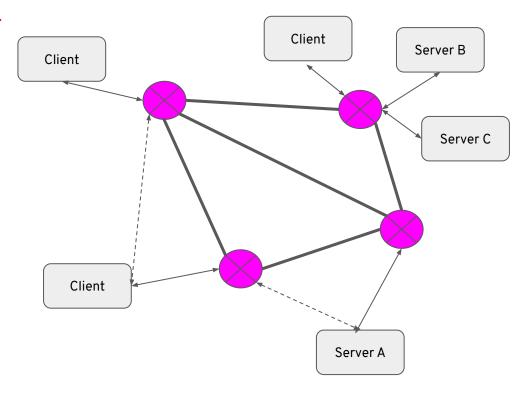




Architecture for infrastructure metrics & events

AMQ 7 Interconnect - Native AMQP 1.0 Message Router

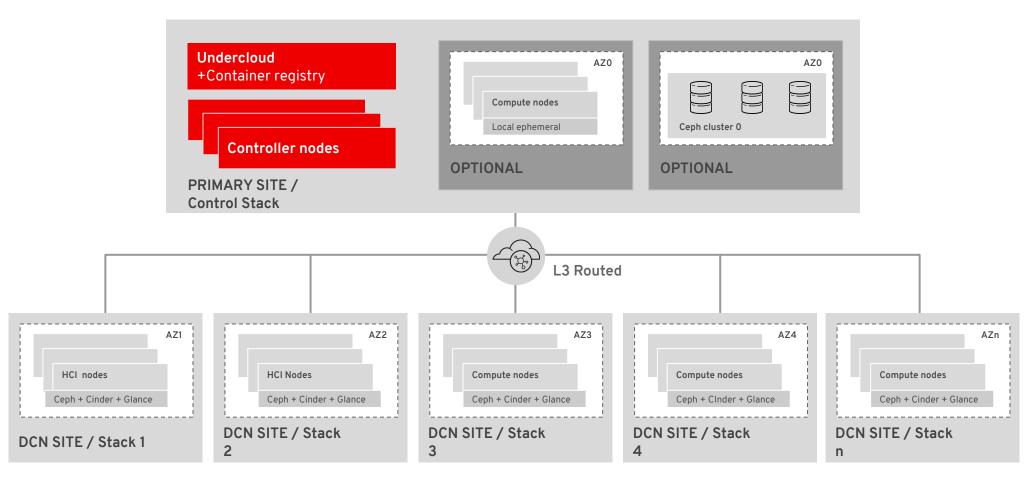
- Large Scale Message Networks
 - Offers shortest path (least cost) message routing
 - Used without broker
 - High Availability through redundant path topology and re-route (not clustering)
 - Automatic recovery from network partitioning failures
 - Reliable delivery without requiring storage
- QDR Router Functionality
 - Apache QPID Dispatch Router QDR
 - Dynamically learn addresses of messaging endpoints
 - Stateless no message queuing, end-to-end transfer



High Throughput, Low Latency Low Operational Costs



DCN (HCI) Architecture in OSP16





Auto-scaling in OpenStack

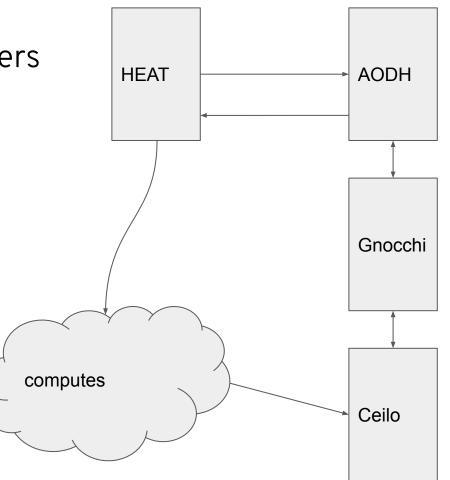
• define a "stack" including triggers

• define an alarm

periodically check alarm state

• fire event

act

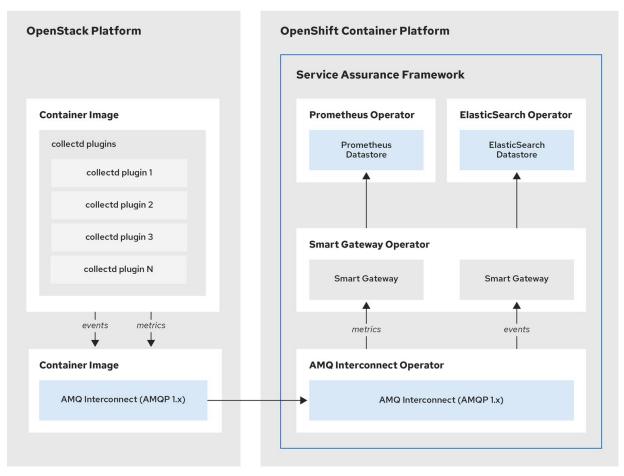




All shiny? - wait!

This is about OpenStack.

Are we adding an additional stack for basic cloud functions?



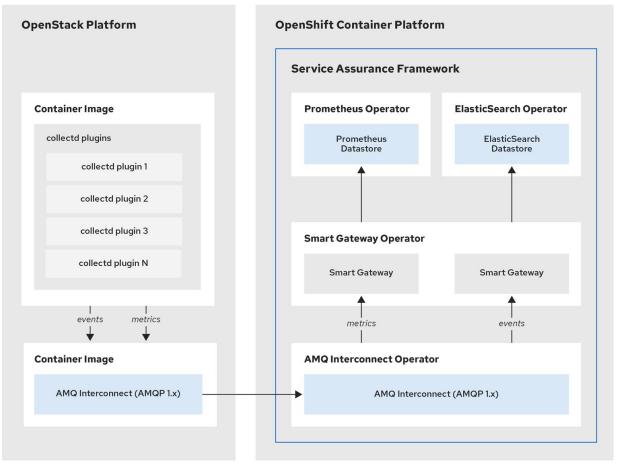
SAF 37 0819



Conclusion

Service assurance framework is able to collect a lot metrics in very short intervals.

Using Prometheus and
Alertmanager for autoscaling
OpenStack causes more issues
than it solves.







Thank you

- in linkedin.com/company/red-hat
- youtube.com/user/RedHatVideos
- facebook.com/redhatinc
- twitter.com/RedHat

