

- fluentd v1.0 released

- -k8s data streamer

- - Prometheus integration

- data streaming proxying

- fluentbit

- routing part of data pipeline

- fluentd salon @ 2pm

- Jager

- open tracing system by Uber

- Jager tech salon @ Friday 2pm

- linked

- service mesh

- Salon Thursday

- Conduit

- run conduit @ github

conduit community

- Conduit

- sidecar to deployment?

- dashboard

- conduit.io

- light weight

- zero config

- linked salon ~~to authors~~

- Envoy

- edge & service proxy

- makes network transparent

- to apps

- Salon @ 3:46 Today

room 4a

- gRPC

- language support for js & others

- TUF = software update spec
- attacks are expected

- Notary

- project had adapted TUF

- Kata Containers

- Isolation Continuum
- speed vs security
- Hyper-clever Containers
- project @ intel
- runV
- merges Intel clear containers
- Hyper runV
- Hardware Accelerated Containers that use Virtualization tech
- Openstack Foundation
- no pay for play
- Tech steering group
- Multiple hypervisors by contributions

JRC #Kata-dev
free node

- Done Marsh - Netfix

- Asgard 2012
- Spinner precursor

- Edge - center 2013 - internal

- Spinneraker!

- Enterprise CI/CD
- Opensource
- Kubernetes

- Unlabeled Chaos Canary

- Engineers manage services
- choose when to deploy
- decide deployment strategy

- Roadmap

- Extend Suite to CI
- Declarative CD
- Abstract deployment details

- Adrian Cockcroft

- VP cloud strategy AWS

- Fungate container Dev

NAMP10 medhevs Salon
- Notes on computer

- Envoy @ mttklein123

- Service mesh
envoy proxy v1.0

- CoreDNS? rm 4a @ 3:40

- Research

- Nginx / Istio

- most on computer
- zipkin?

- Istio / book info example

- Istio - auto-gen proxy configs

coreDNS #4? - on camp

- John Belamaric
- info@blox.io

- writing plugins

- ~~config~~
- plugin of
- fallback?
- enable?

thost -t txt foo.com localhost

vl9 dns policy, custom
pod spec
Bower - grade

- service Mesh keynote
- Ben Sigelman
- lightstep

- M, cross service transactions
= Dist Tracing tells stories
about transactions across service
boundaries

- Zipkin
- Jaeger
+ lightstep

- Observing every RK is great but
something needs to tie it all
together

- Don't Core - More Fast & Better Things
DaaS

Open Tracing

- conductor
- agent mesh
- envoy
- istio
- linkerd

- Openstacking salon

thu 3:30pm

- Jager Friday 2-3:30pm

- linked fri 2pm

- Brendan Burns

- mst

@brendandburns
Kubernetes is too hard
- new tools patterns & paradigms
to democratize dist systems dev

- Principle #1 - everything in 1 place
- #2 - Build libraries not platforms
- #3 - Encourage sharing & reuse

- Language Idiomatic cloud

- Design your app in code

- no yaml / DSL

- more approachable

- Better tooling

- Thoughtful language features

- Hadoop

public class Mapper {

public class Reducer {

- PySpark

when exec map my func, range(10)

- Meta particle

std lib

Runtime

Objects

Meta particle

Kubernetes

Containers

- Higher level patterns

sync / lock

election

sharding

- metaparticle.io / package

sync

github

@metaparticle.io

Alexis Richardson

@peanute

Can 100m devs use k8s

- Gristops talk Thurs

@colorize bot

- openfaas

- Kelsey Hightower keynote

- Infrastructure repo

- Auto updates per commit

- Curated Dashboard

github - hightowerlabs.com

- hellowork - infrastructure prod

- how to manage configs?

- helm

- kassonnet?

- Chen Goldberg

@goldbergchen

post

- Code Fresh

- Spinnaker better at some

- Patron Project

- Postgres DB operator

- client-go

- Kubo

- Istio

- Spinnaker

- Jager

- Lin/Key

- TUF Notary

- Squash - dist app debugger

- Kedge Project - deploy k8s res

- CNI by coreOS -> Cate?

Gladly CI/CD

! bot create chat-dev

- x/ant-go
- - ElasticSearch
- kafka
- Postgres
- edge-broker - master
- Supernova - chat-dev
- ingress - edge-router - master
- config maps

- Ksonnet?

Iops Istio on k8ps
~~ant~~ - puZkNK goo-gl/

- Daneyon Hansen
@daneyonhansen
Cisco

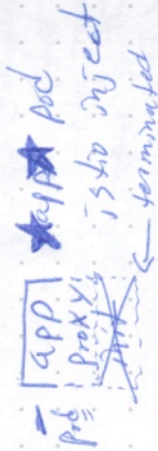
- Follow Along - goo-gl/puZkNK
- Book Info - example app
- Istio - cp + data plane
- ~~istio~~ CA & envoy proxy
- Manually inject sidecar proxy
- or

- Initializer Controller
 - pre-init tasks
 - init controller
- Start API server with flags
 - runtime-config =
 - extn config = Admission
- Initializer pod & Config

istio Ca
istio mixer
istio pilot
istio ingress
istio sidecar

- Init, rizer = ~~Proxy~~ webserver mounted on pod3
- /etc/istio/config

init Image
proxy Image
mesh Config Map



init container redirects traffic then terminates

istio
- init config to customize behavior

- kint Yag - google

- proxy modes
- 3dear
- 2 other

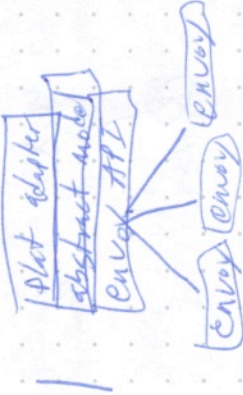
- envoy runtime config

- /etc/istio/proxy/envoy-rev2
envoy proxy supports istio

- istio \Rightarrow Data plane \uparrow

control plane \downarrow

- Pilot



- Discovery of Load Balancers

- Pilot pod

- Pilot
- proxy

- pilot has a service account
- mounts /etc/certs
- Busybox - good
- Control Plane: Mixer
Mixer = distribute processing & routing engine
- Envoy → Mixer → Intra Backend
↑
③ operator
- SAMM H2V
- Mixer config looks similar to pilot /etc/certs
- Side car for mixer, can comm with envoy proxy
- ~~/etc/certs~~

- E2E F2W?
- Mutual TLS done by proxy ^{sidecar}
- Istio security / CA pod
- curl localhost:XXXXX/certs
- Ingress
Istio Ingress = istio ingress controller
- Also runs envoy ingress proxy
- Egress HTTP/S only support currently
- resources can't access SaaS outside of the mesh
- include IP ranges param can be used to prevent proxy from intercepting external requests

[Kafka or -Neda?]

- mail is best contact
on slide

- Jenkins plugin
by person

- Jags
github.com/person technology
- environment operator

Matt Kirch - matt@elementaloid.com

- shutter stock
in Denver, CO

- KPS plat admin

hosted prom & gratana
50k/month

8k/yr

- dd plugin
- cloudwatch
- 1k/month
- 1/3 price

Gratana
Ray - CEO

- getting sail w/ Istio
Youtube channel

- fortio - load tester
- istio & envoy
- istioctl

- Is it possible can say
V3 should not have
more than 10 req/sec
- to limit traffic on new release
- Can write bad code but
not impact production

How -> IND

AS3

boarding 10:20 AM

Conf # SPX E6H

gate 47

~~1507~~