Service Mesh
Up and Running in 5 minutes
You might be thinking...

5 minutes ≠ 35 minutes
Brian Redmond – Who am I?

- Cloud Architect @ Microsoft (18 years)
- Azure Global Black Belt Team
- Live in Pittsburgh, PA, USA
- Avid marathon runner and outdoors enthusiast
- World traveler

@chzbrgr71
Service Mesh – Smarter Pipes

• “A service mesh is a dedicated infrastructure layer for making service-to-service communication safe, fast, and reliable”  William Morgan (Buoyant)

• What you get:
  • Observability
  • Latency aware load balancing
  • Traffic shaping
  • Security (authorization, encryption, etc.)
  • Retries & circuit breaking
  • Distributed tracing

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Linkerd 2.x architecture
Smart endpoints, dumb pipes

This has worked for the past 25 years
But with so many endpoints today, how do you manage
Service Mesh Interface (SMI) for Kubernetes

A Kubernetes interface that provides traffic routing, traffic telemetry, and traffic policy

**Standardized**
Standard interface for service mesh on Kubernetes

**Simplified**
Basic feature set to address most common scenarios

**Extensible**
Support for new features as they become widely available

Apps

Tooling

Ecosystem

Service Mesh Interface

Istio

Consul

LINKERD

...and more
This isn’t a new concept

If the SMI concept sounds familiar, that’s because it is
So, why SMI?
Because it’s faster, simpler, and friendlier

Get started quickly
Simpler is better
Ecosystem friendly
Service Mesh Interface (SMI) for Kubernetes

In partnership with

- Microsoft
- LINKERD
- HashiCorp
- solo.io
- Red Hat
- RANCHER
- docker
- weaveworks
- ASPEN MESH
- Pivotal
- VMware
- k3s
- CANONICAL
- kubecost