# Apache APISIX from Gateway to Full Traffic Proxy with Istio

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#### About Me

- Apache APISIX PMC
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## Agenda

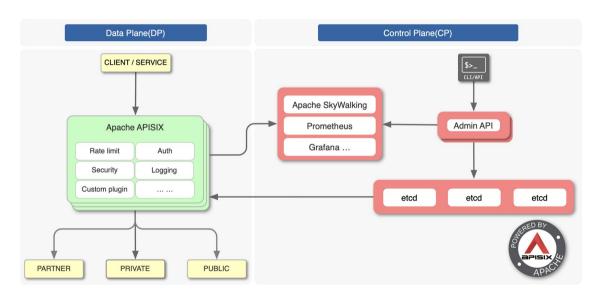
- What is Apache APISIX
- Why use Apache APISIX as the data plane for Istio
- How to implement it
- The future



## What is Apache APISIX

#### Apache APISIX

- ASF top level project
- Full Dynamic
- High Performance
- Cloud Native
- Out-of-the-box plugins
- Easy to extend



https://github.com/apache/apisix





















### Usage Scenarios for Apache APISIX

- L4/L7 Gateway (weibo 、WPS)
- Microservices API Gateway (iQIYI)
- Kubernetes Ingress controller (UPYUN)
  - https://github.com/apache/apisix-ingress-controller/



# Why use Apache APISIX as the data plane for Istio

#### Easy to use

The concepts in APISIX are few and simple. You can quickly get started with APISIX in 3 minutes.

But in the same amount of time, you may still be learning how to write filters rules for Envoy.



#### Easy to extend

NGINX + Lua

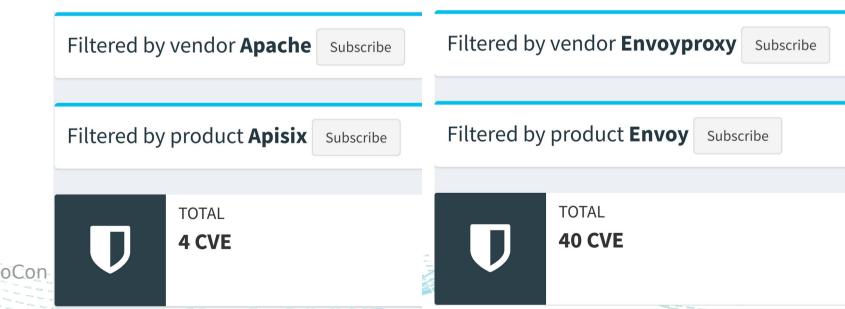
• multi-language plugins





#### Security

APISIX has fewer known vulnerabilities



## How to implement it

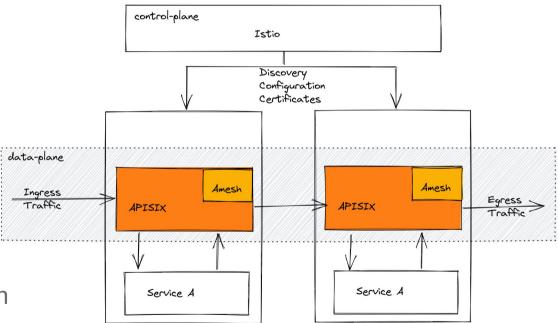


### Apache APISIX Native Support

No etcd required

Support for xDS protocol

It's public now!!! https://github.com/api7/amesh





#### How to use it

Change the injection-template:

- proxy\_init
- proxy

Ref: https://github.com/api7/amesh/blob/main/docs/en/demo.md



#### The future

- Donate it to the ASF for development as a sub-project of APISIX.
- Apache APISIX covers all traffic from east to west and north to south.

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# Thank you!

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