



Service Mesh [Both Brosy & Reverse Brosy]
A 150
A service mesh is a dedicated in frastructure layor that
Controls service - to - fervice communications.
Istio is an open source service much that provides a seamless way to connect, secure, controls and observe microservices.
way to connect, secure, controls and observe microservices.
Et uses (Envoy prosy) as its (data plane) prosy which
Envoy Proof container will be injected to each of pods of the namespace
Envoy Prosy container will be injected to each of pods of
The namespace]
Notett latel namespace (your-namespace) istio-injection = enabled
CANARY De phymornis
Isto Configuration) Missour (2008) (interior restation of the content of the con
* Traffic Management - Define Istio destination rules, and gateways to manage traffic routing
to manage traffic routing
* Observability - Enable telemetry collections for monitoring and
(cogomb) Logomy

21/00

& Security - Configure mutual TLS for secure service for sowlee Homen 50 communication. Based on CONTENT

of story negotite to

Mississon salings of 21900s)

(Two main components of Service Mesh)

Controle Plane and Data Plane in Service Mesh]

Data Clane: -]

Responsible for handling the actual network traffic between migresonvices of more whose whose.

knowledge determined terous who he climping

Broid & Hipinger

- * Envoy proxies au deployed as stole cans alongside each microservice instance
 - * They intercept and manage all in bound and outbound staffic district is unnitracted for often the procy is beforething
- > they can enforce policies like load balancing, retries timeouts, and circuit breaking The Sile A only "

[Control Plane] =

Responsible for managing and configuring the data plane formers the reduced is township to provide Prosty.

- 1. Pilot -> Manages and configures Envoy Broxy. Distributes config trous of updates to envoy side cons. subout month on mod
- 2. (itadel 7 Issues and Rotales TLS certs among services
- 3. Cralley > Ensures Pilot has done its work correctly
- 4. MISER > Callect Metrics, logs and traces to provide objetuability.

& Benifits of Controlle Mans and Oaks Clare in Sorvice histor

* Anonymity > ferun does not know who the allent is. Dato Mary:

* Caching

& Blocking unwanted Sity > Might ISP might have some rules not to allow access to specific Loos abirendo anos dos so sagolpho us construir gount

prosy into saying.

Two makes components of Service much)

all the want to actually access site B and not site A, which is unnestricted, but after the proxy is by passed, the packet has the destination i.p. Address and mac Address of time outs, and circuit (making the Site A only".

& Greobeneing - Only Specific Content is VIsithe to Specific users. Brosy the class where the request is corning from and what the

Proof whats.

in Pilot > Manages and configures Envey mary. Distributes rengly (Es): Someoney nom India wants to a cess a Netflix content, which is not available fallowed. Proxy will block it from accessing that sorver sow the early the aluxua E pullow .

4. Misson & Collect Mutsus, logs and Incus to pravide obtainability.