**ISTIO**

Istio is a service Mesh.

Service Mesh manages communication between microservices.

Microservice have its own business logic.

Communication configuration (COMM)

Security logic:

* Firewall:
  + Communication inside cluster is not secure.
  + Every service inside the cluster can talk to any other service.

Retry logic

Metrices and tracing logic

Service mesh with sidecard pattern:

Sidecart Proxy:

* Handles these networking logic
* Acts as a proxy
* Third party application
* Cluster operators can configure it easily
* Developers can focus on the actual business logic

Control plane

* Control plane injects the sidecard proxy

**Feature:**

1. Traffic splitting (canary deployment)

A screenshot of a computer

Description automatically generated with medium confidence

**Architecture:**

Diagram

Description automatically generated

**How to configure?**

* **It configured using Kubernetes yaml file**
* **Crds**
* **Virtual services**

Diagram

Description automatically generated

**Istio setup**

Graphical user interface, application

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