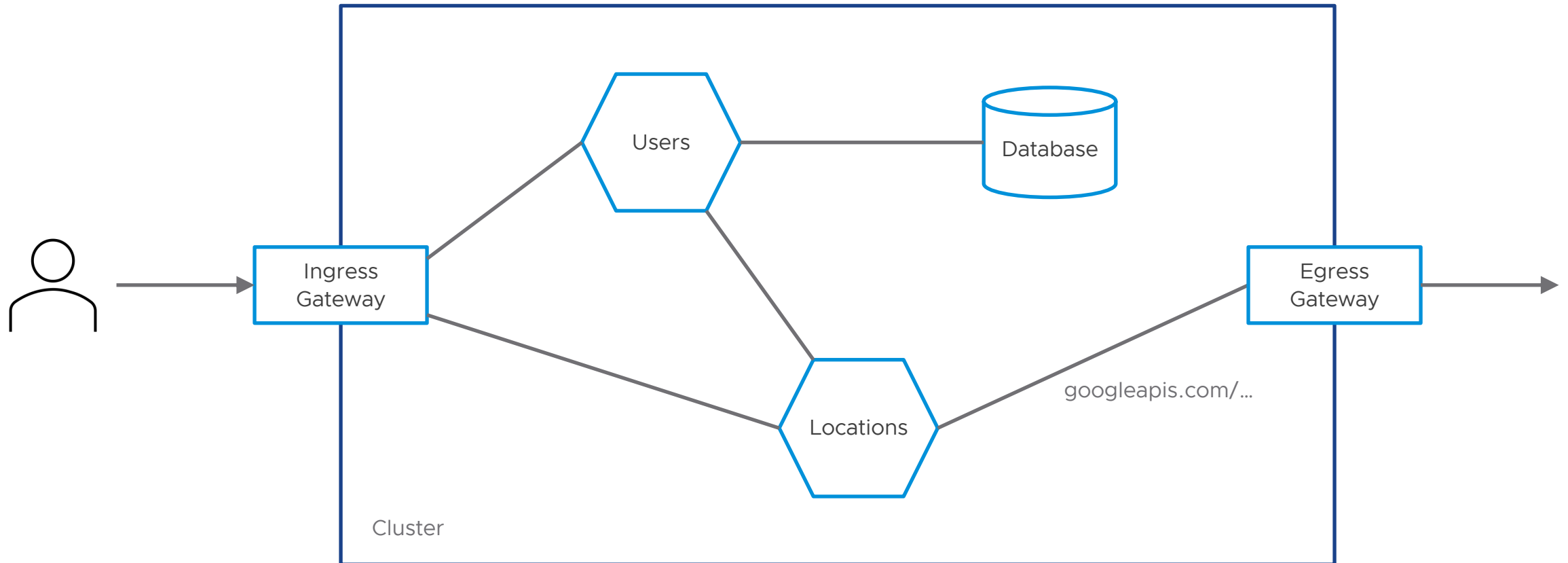# Service Mesh Security in a Nutshell

Venil Noronha | Software Developer
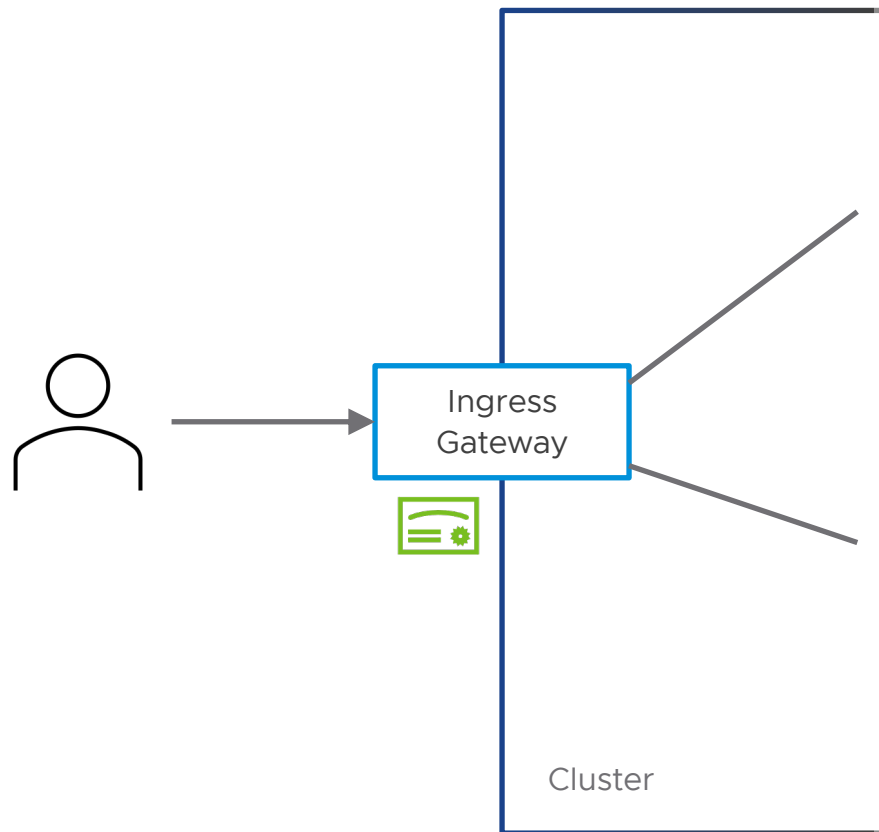
Manish Chugtu | Enterprise Technologist

A Simple System
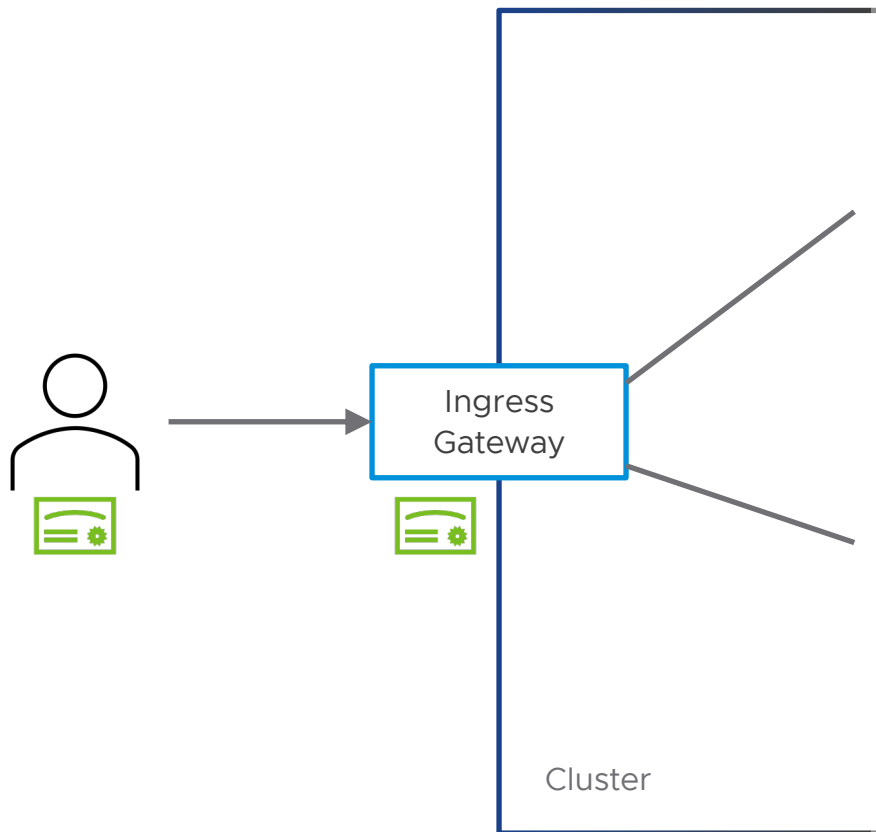
Ingress Gateway Patterns
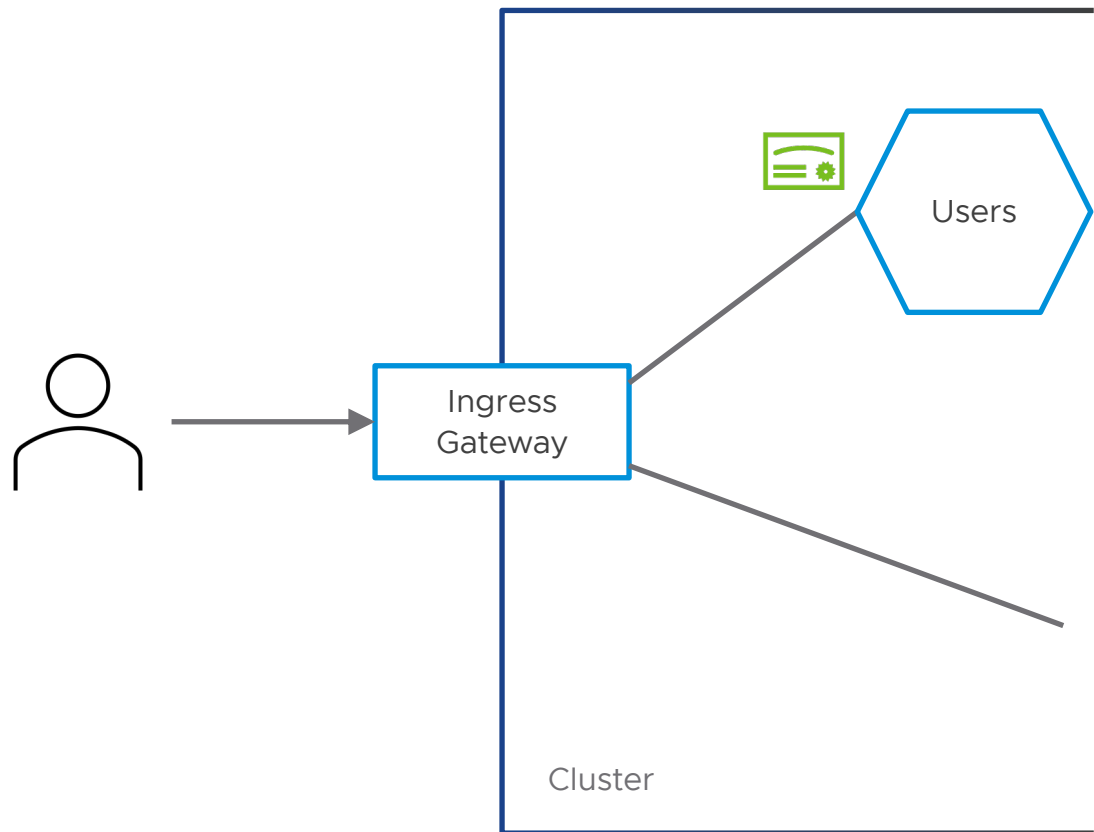
Ingress Gateway Patterns

Ingress
Gateway

Cluster

- Authentication with TLS

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Ingress Gateway Patterns

Ingress Gateway

Cluster

- Authentication with TLS

- Authentication with mTLS

Ingress Gateway Patterns

Users

Ingress
Gateway

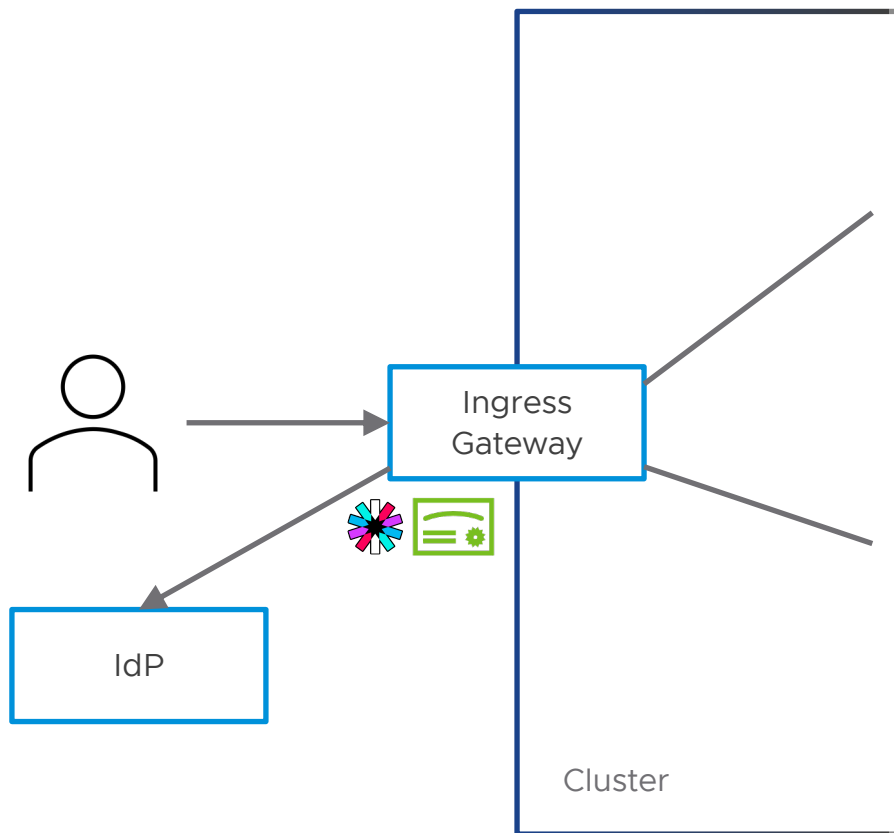Cluster

- Authentication with TLS

- Authentication with mTLS
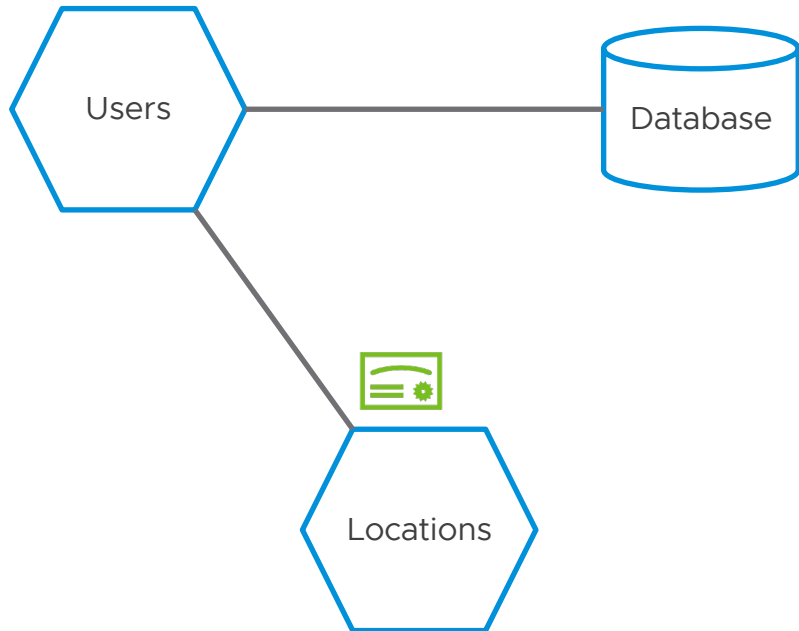
- Passthrough at the ingress

Ingress Gateway Patterns

- Authentication with TLS

- Authentication with mTLS

- Passthrough at the ingress

- External authentication
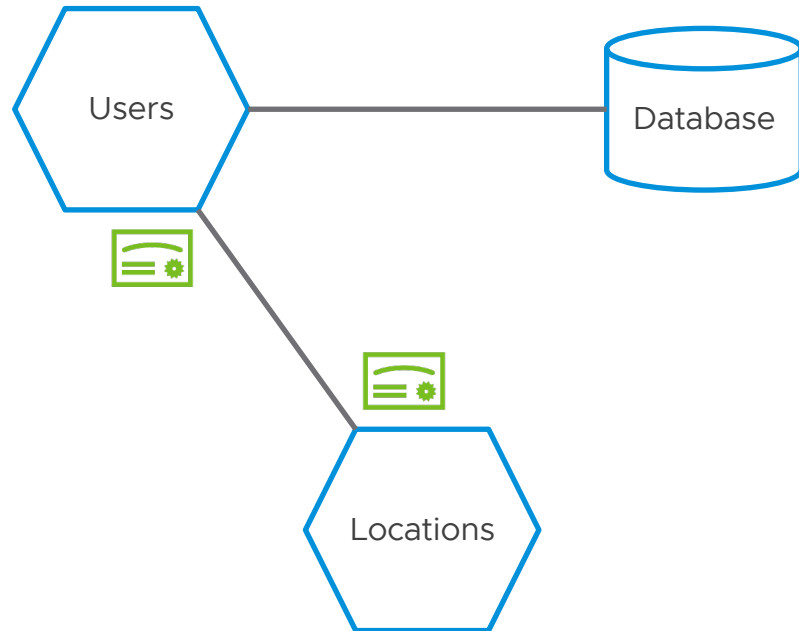
Mesh Workload Patterns

vmware®

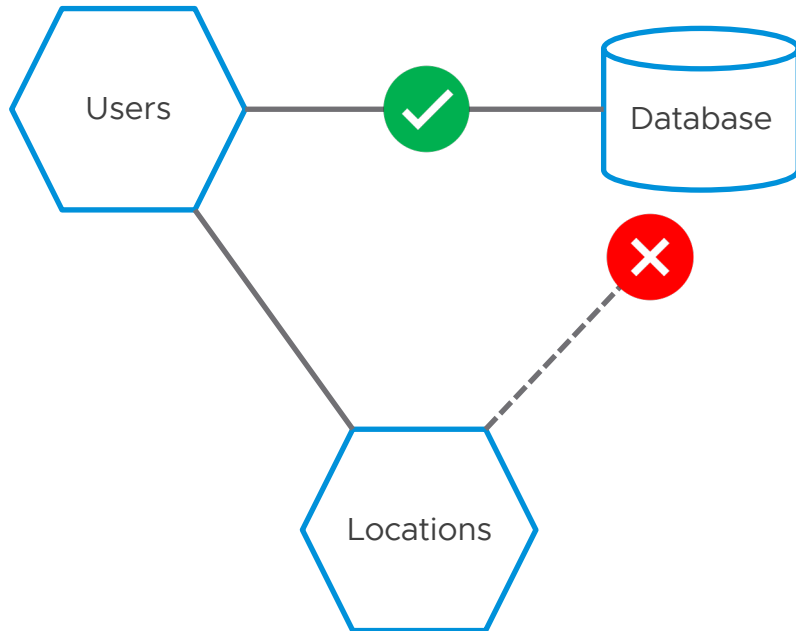# Mesh Workload Patterns

- Permissive mTLS
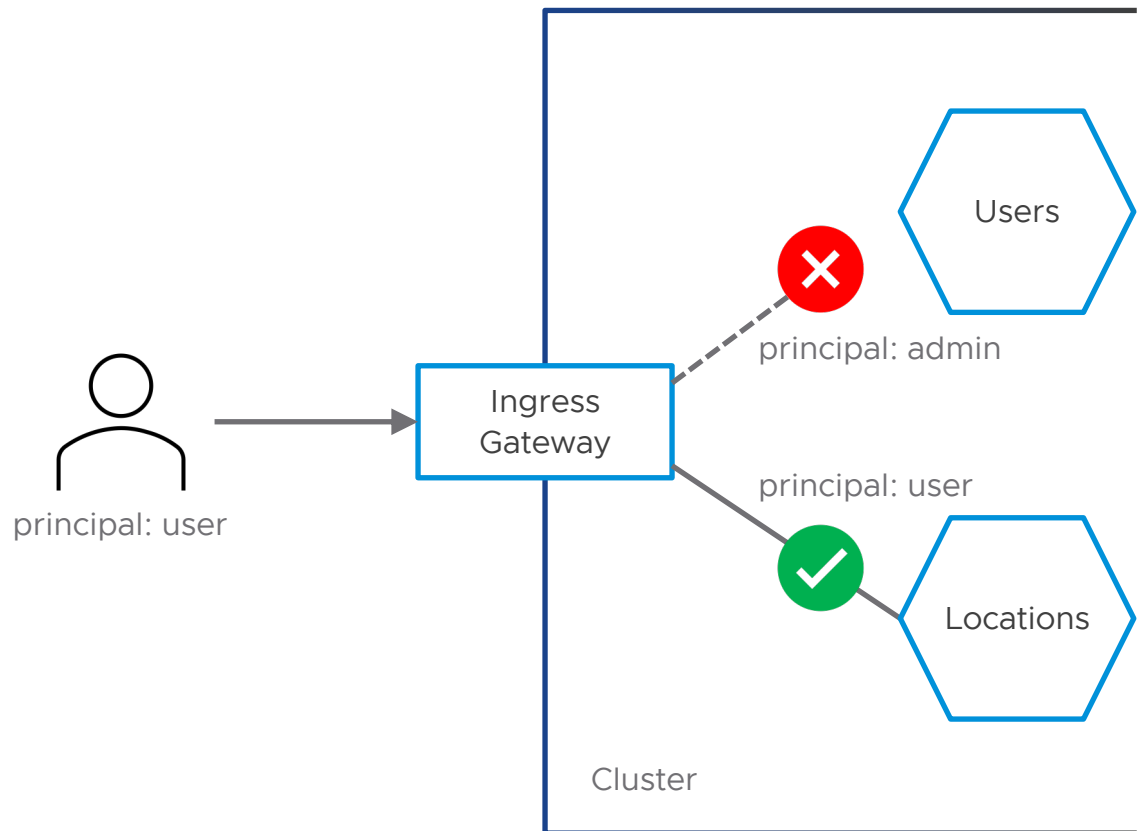
Mesh Workload Patterns

- Permissive mTLS

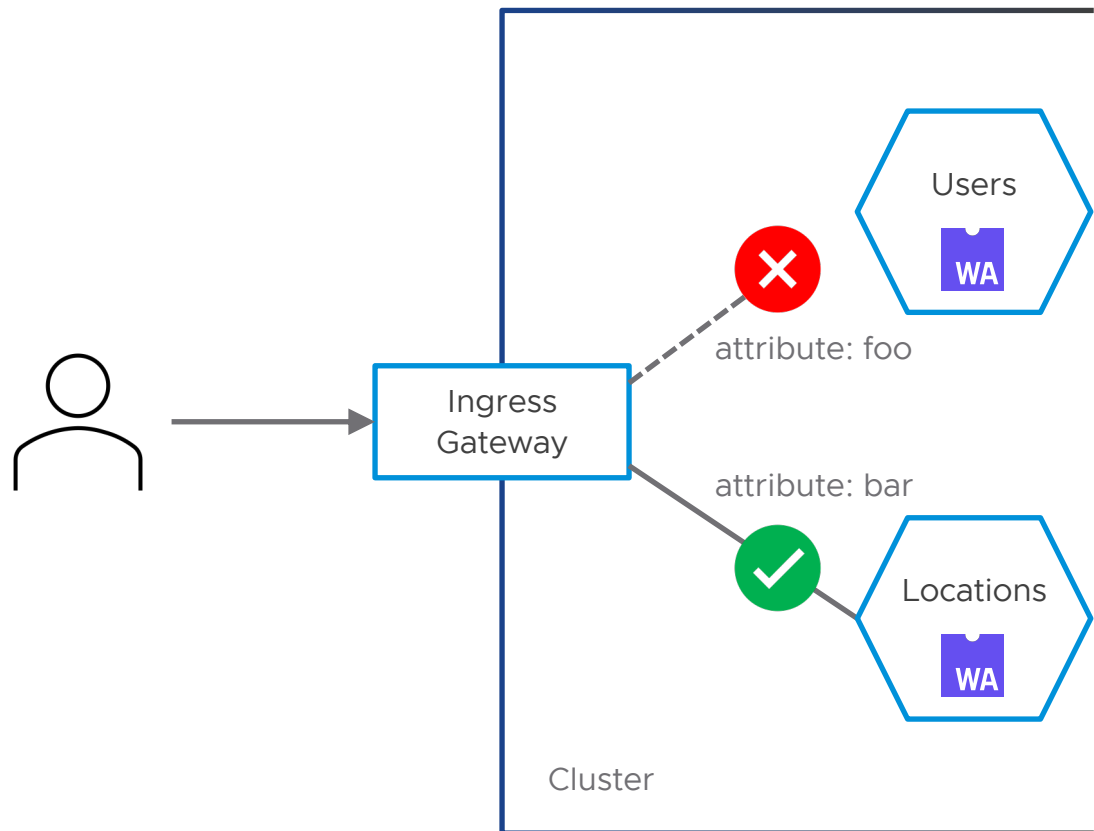- Strict mTLS

Mesh Workload Patterns

- Permissive mTLS

- Strict mTLS

- Workload authorization

Mesh Workload Patterns

- Permissive mTLS

- Strict mTLS

- Workload authorization
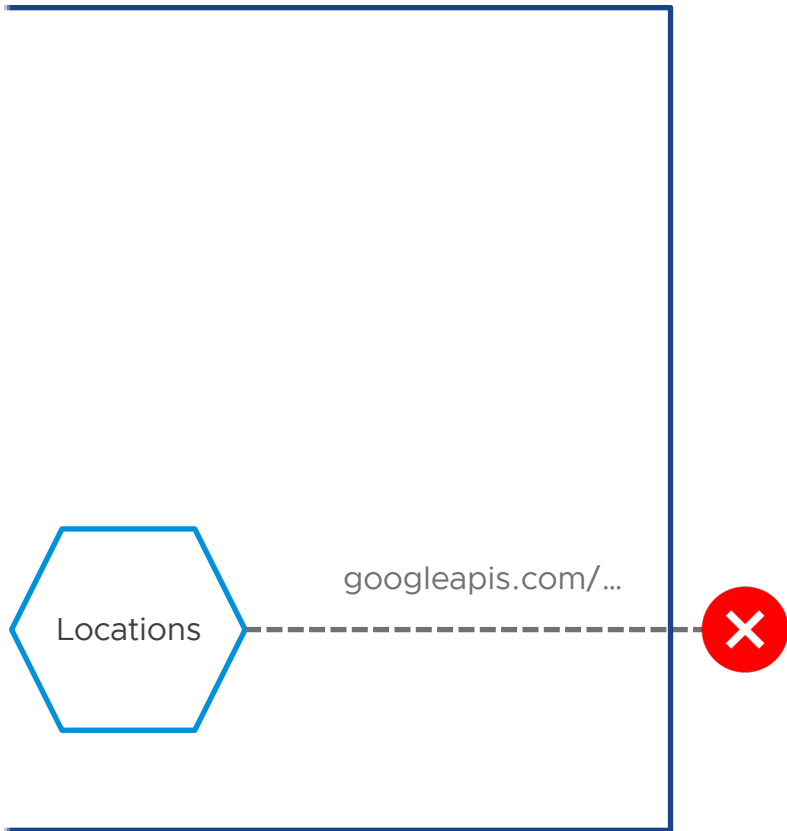
- End-user authorization

Mesh Workload Patterns

- Permissive mTLS

- Strict mTLS

- Workload authorization

- End-user authorization
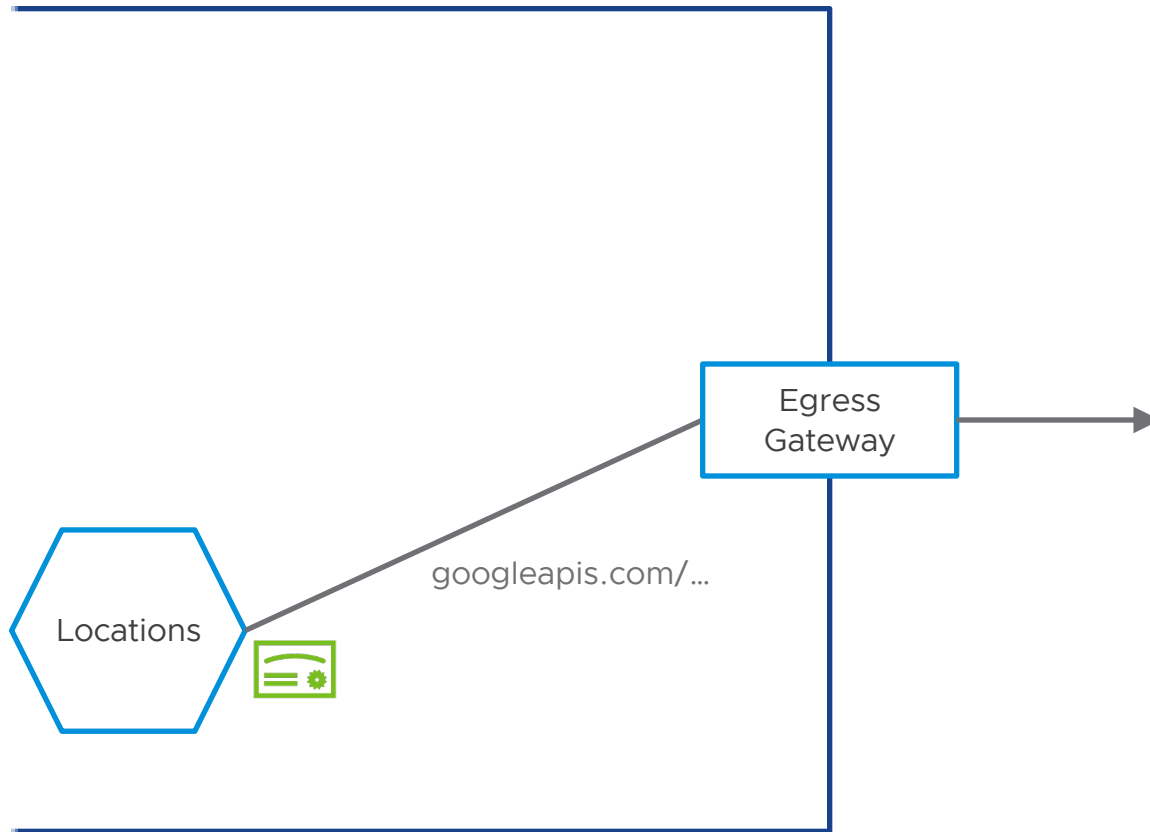
- Authorization via extensions

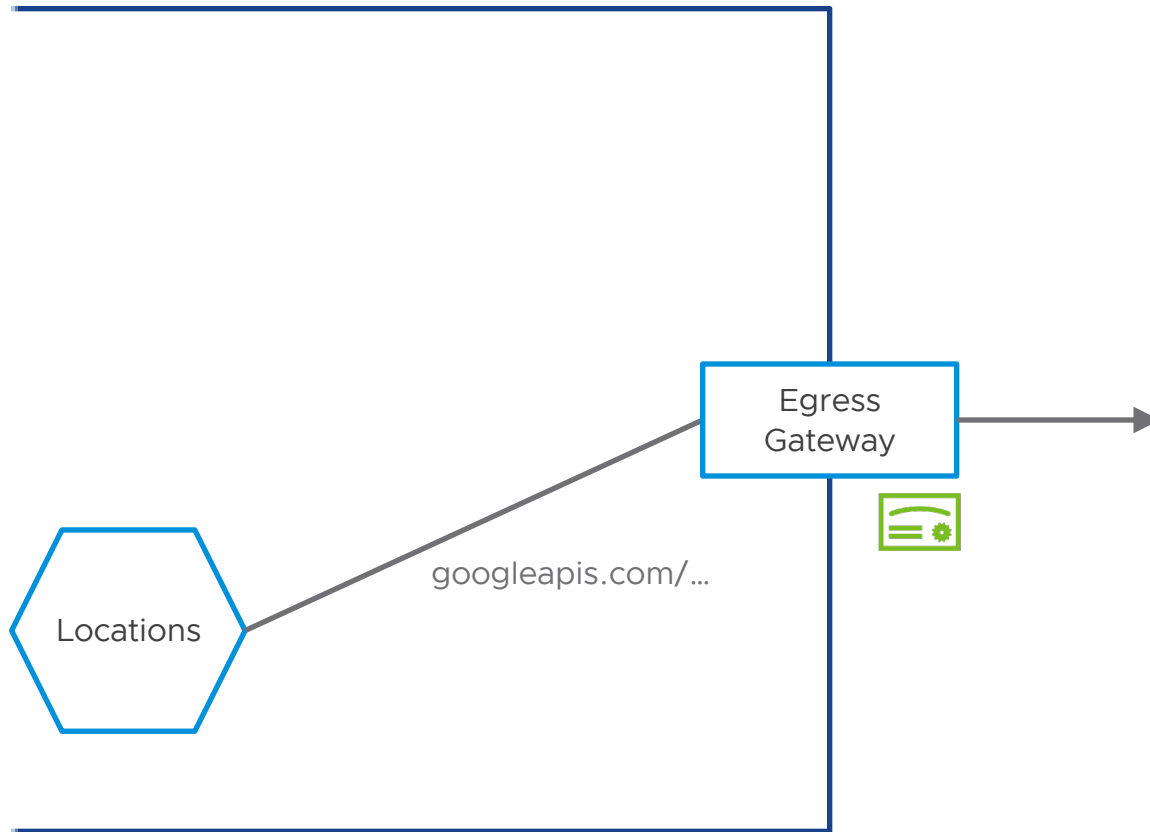# Egress Gateway Patterns

Egress Gateway Patterns

Locations —— googleapis.com/... ✕

- Control external access

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Egress Gateway Patterns

Egress Gateway

Locations

googleapis.com/...

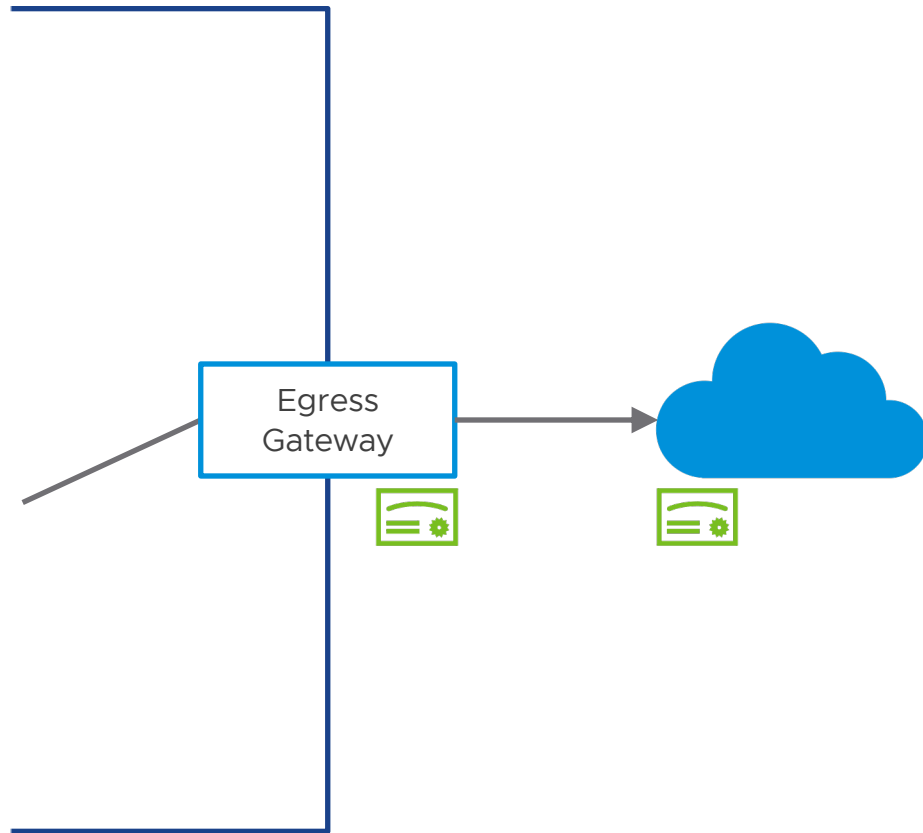- Control external access

- TLS passthrough

Egress Gateway Patterns

- Control external access

- TLS passthrough
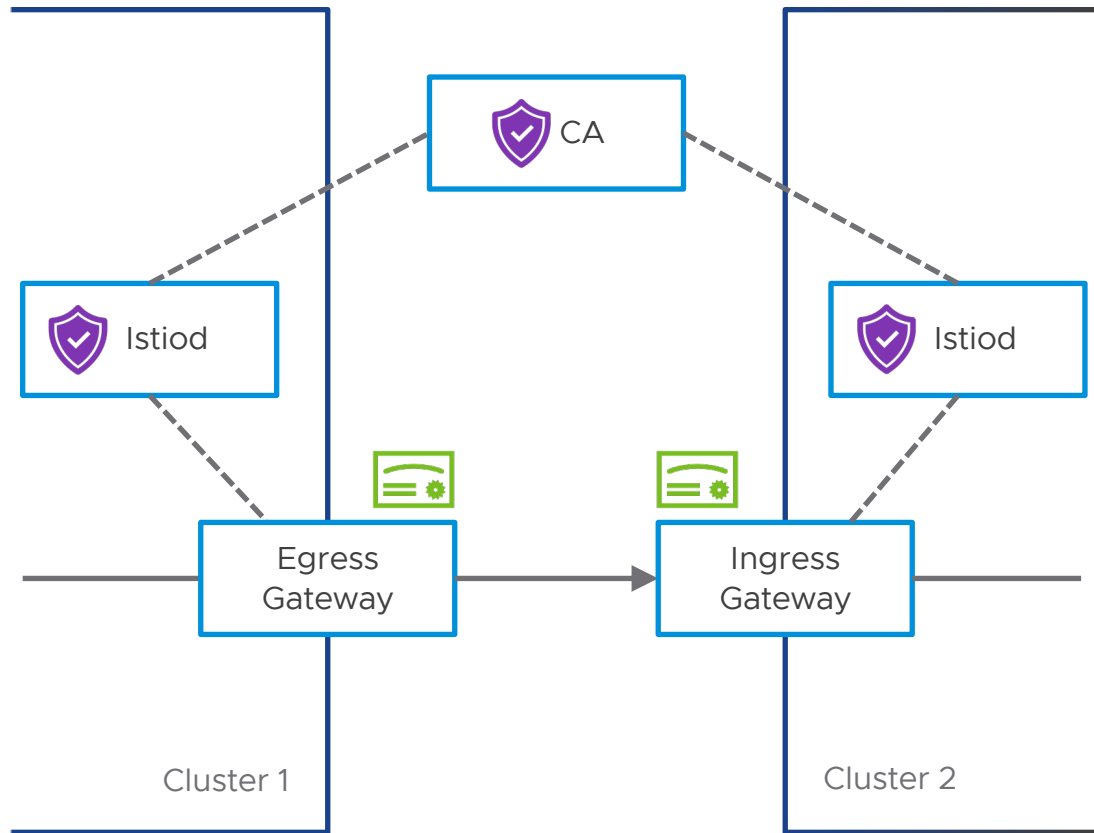
- TLS origination at the egress

Egress Gateway Patterns

- Control external access

- TLS passthrough

- TLS origination at the egress
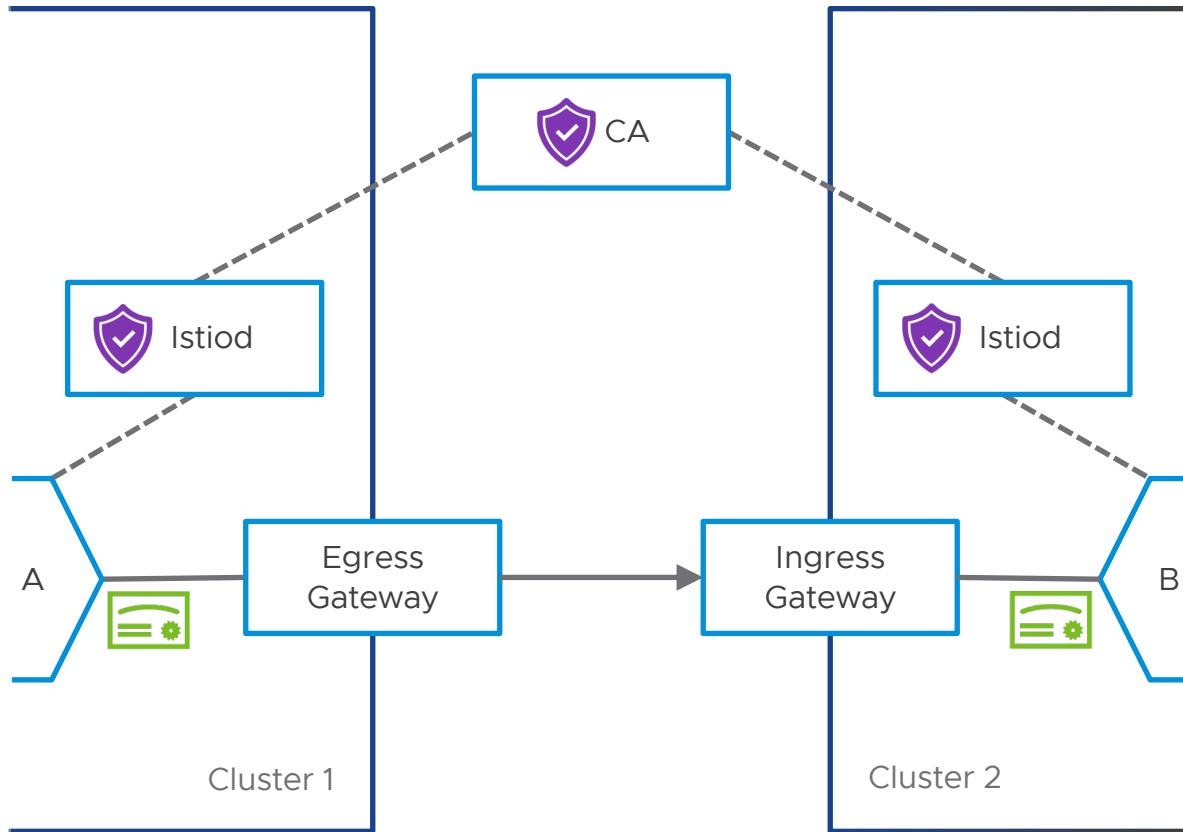
- mTLS origination at the egress

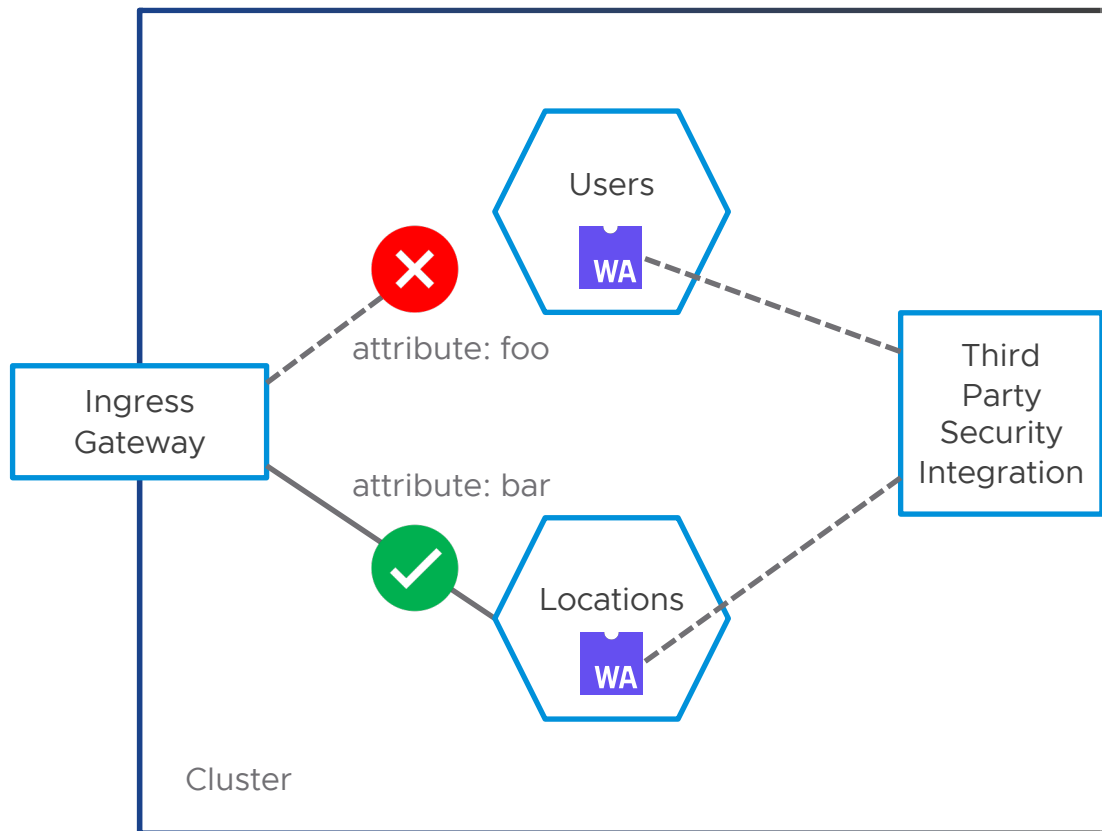# Advanced Patterns

Multi-Cluster Patterns

- mTLS between gateways

Multi-Cluster Patterns

- mTLS between gateways

- mTLS passthrough at gateways

Advanced Patterns

- mTLS between gateways

- mTLS passthrough at gateways

- Third-party security integration

Thank You

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