

# Cluster Mesh

Learn how to deploy Calico clustermesh for security, observability, and networking in multi-cluster environments

This workshop demonstrates how to use Calico's cluster federation capabilities to secure workloads across clusters and observe workload communication across clusters. Participants will receive hands-on training deploying the following use-cases,

1. Federated Endpoints - Deploy security policies across federated clusters
2. Federated Services - Kubernetes service discovery for federated clusters

## Service Components:

- Instructor-led training
- Concept and hand-on lab modules
- Delivered in 2-3 hours

## Curriculum:

- **Cluster Federation with Calico Cloud**
  - Federate two clusters using Calico Cloud
  - Review the service accounts, roles, role bindings, and cluster role bindings required for federation
- **Federated Endpoints**
  - Implement security policies for federated endpoints
  - Deploy consistent security policy model across multiple clusters
- **Federated Services**
  - Deploy microservices for a single application across multiple clusters
  - Configure federated service for the application
  - Leverage federated services during cluster failover
- **Observability for Federated Services**
  - Visualize workloads in Dynamic Service and Threat Graph for federated services
  - Review traffic flow logs for federated services
- **Implement Security Policies for Federated Services**
  - Use the Policy Recommender to generate security policies for federated services