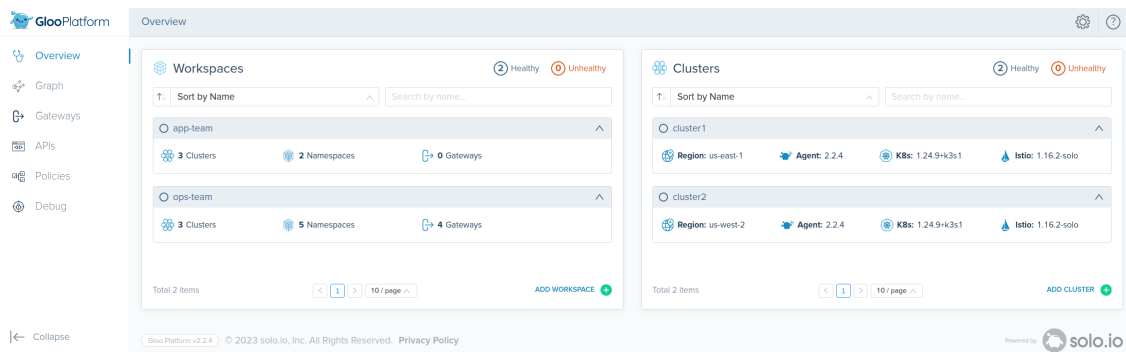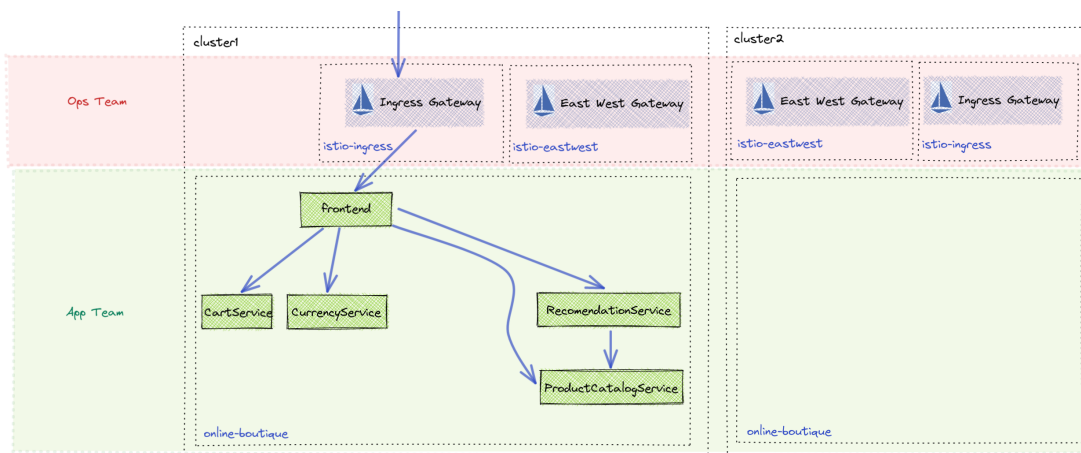# Lab 07 - Configure Gloo Platform

Links:

- [Gloo Platform Multi-Tenancy](#)
- [Workspace API](#)
- [WorkspaceSettings API](#)

Setup Operations Team configuration namespace

- Create administrative namespace for ops-team

```
kubectl create namespace ops-team --context management
```

- Apply Gloo Platform configuration for ops-team

```
kubectl apply --context management -f - <<EOF
apiVersion: admin.gloo.solo.io/v2
kind: Workspace
metadata:
  name: ops-team
  namespace: gloo-mesh
spec:
```

```
  workloadClusters:
  # administrative namespace
  - name: management
    namespaces:
    - name: ops-team
  # remote cluster namespaces
  - name: '*'
    namespaces:
    - name: istio-ingress
    - name: istio-eastwest
    - name: gloo-platform-addons
---
# workspace configuration
apiVersion: admin.gloo.solo.io/v2
kind: WorkspaceSettings
metadata:
  name: ops-team
  # placed in the administrative namespace
  namespace: ops-team
spec:
  # import service discovery from app-team
  importFrom:
  - workspaces:
    - name: app-team
  # export service discovery to any workspace that needs ingress
  exportTo:
  - workspaces:
    - name: "*"
  # for mutli cluster routing
  options:
    eastWestGateways:
    - selector:
        labels:
          app: gloo-internal-gateway
EOF
```

Setup Application Team configuration namespace

- Create administrative namespace for app-team

```
kubectl create namespace app-team --context management
```

- Apply Gloo Platform configuration for app-team

```
kubectl apply --context management -f - <<EOF
apiVersion: admin.gloo.solo.io/v2
kind: Workspace
metadata:
  name: app-team
  namespace: gloo-mesh
```

```
spec:
  workloadClusters:
  # admistrative namespace
  - name: management
    namespaces:
    - name: app-team
  # workload cluster namespace
  - name: '*'
    namespaces:
    - name: online-boutique
---
apiVersion: admin.gloo.solo.io/v2
kind: WorkspaceSettings
metadata:
  name: app-team
  namespace: app-team
spec:
  # import gateway service for ingress
  importFrom:
  - workspaces:
    - name: ops-team
  # share service discovery and routing to ingress
  exportTo:
  - workspaces:
    - name: ops-team
EOF
```

View Service Discovery in Gloo Platform UI

- Bring up the Gloo Platform Dashboard

```
kubectl port-forward svc/gloo-mesh-ui 8090:8090 --context management -n gloo-mesh
echo "Gloo UI: http://localhost:8090"
```

- View workspaces

GlooPlatform

Overview

- Overview
- Graph
- Gateways
- APIs
- Policies
- Debug

Workspaces   2 Healthy   0 Unhealthy

↑↓ Sort by Name ∧   Search by name...

○ app-team   ∨

🔹 **3** Clusters   🔹 **2** Namespaces   🔹 **0** Gateways

Imports / Exports   ⇄   **Destinations**   ⚙
Resources Exported 8   K8s Services 66
Workspaces Imported 1   Virtual Destinations 0
Imported by workspaces 4   External Services 0
                                               Cloud Functions 0

Policies   ▣
Security 0
Resiliency 0
Traffic Control 0
Observability 0
Extension 0

                                                          MORE DETAILS ∨

○ ops-team   ∨

🔹 **3** Clusters   🔹 **5** Namespaces   🔹 **4** Gateways

Imports / Exports   ⇄   **Destinations**   ⚙
Resources Exported 4   K8s Services 63
Workspaces Imported 1   Virtual Destinations 0
Imported by workspaces 8   External Services 0
                                               Cloud Functions 0

Policies   ▣
Security 0
Resiliency 0
Traffic Control 0
Observability 0
Extension 0

                                                          MORE DETAILS ∨

← Collapse   Total 2 items   ‹ 1 ›   10 / page ∧   ADD WORKSPACE ⊕

- View app-team service discovery

Destinations	Routing	Policies	APIs		

Workspace Destinations

Name	Cluster	Namespace	Type	Import Status	Hosts
○ adservice	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	adservice.online-bouti...
○ cartservice	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	cartservice.online-bout...
○ currencyservice	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	currencyservice.online...
○ emailservice	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	emailservice.online-bo...
○ frontend	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	frontend.online-boutiq...
○ loadgenerator	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	loadgenerator.online-b...
○ productcatalogservice	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	productcatalogservice....
○ recommendationservice	cluster1	online-boutique	⊕ Kubernetes Service	↗ Exported	recommendationservic...
○ istio-eastwestgateway	cluster1	istio-eastwest	⊕ Kubernetes Service	↙ Imported	istio-eastwestgateway....
○ istio-ingressgateway	cluster1	istio-ingress	⊕ Kubernetes Service	↙ Imported	istio-ingressgateway.is...
○ istio-eastwestgateway	cluster2	istio-eastwest	⊕ Kubernetes Service	↙ Imported	istio-eastwestgateway....
○ istio-ingressgateway	cluster2	istio-ingress	⊕ Kubernetes Service	↙ Imported	istio-ingressgateway.is...