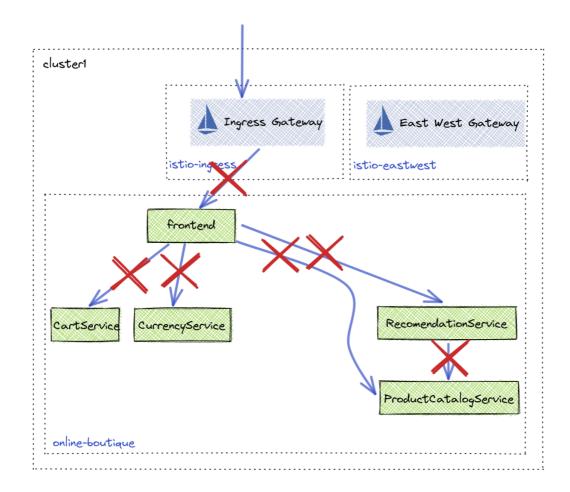
Lab 09 - Zero Trust Communication

Links:

- Zero Trust Whitepaper
- Access Policy Docs
- AccessPolicy API

Deploy Zero Trust Policy



• Disable all traffic by default for Application Team

```
kubectl apply --context management -f - <<EOF
apiVersion: security.policy.gloo.solo.io/v2
kind: AccessPolicy
metadata:
   name: allow-nothing
   namespace: app-team
spec:
   applyToWorkloads:
   - {}
   config:</pre>
```

```
authn:
    tlsMode: STRICT
    authz: {}
EOF
```

• Test traffic to online-boutique

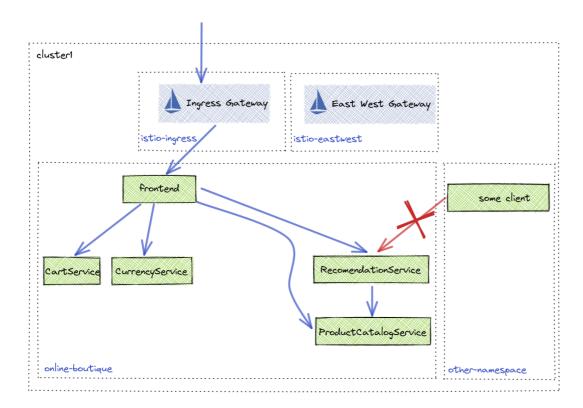
```
https://$GLOO_GATEWAY_HTTPS
```

Optional curl

```
curl -k --write-out '%{http_code}' https://$GLOO_GATEWAY_HTTPS
```

Allow Fine Grain Access

Now that all traffic is denied by default, traffic needs to be allowed between the microservices for the Online Boutique to function.



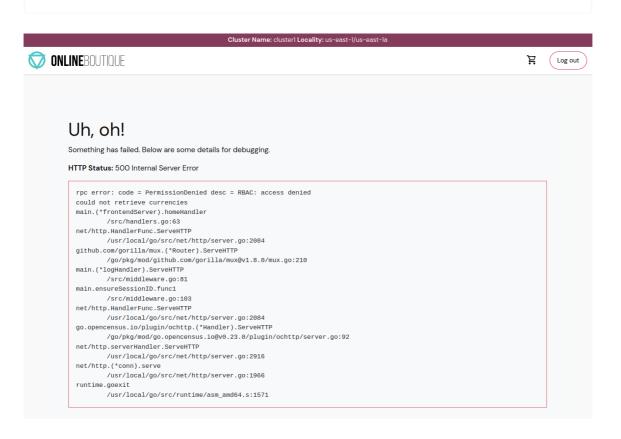
• Allow access to the frontend from the ingress gateway

```
kubectl apply --context management -f - <<EOF
apiVersion: security.policy.gloo.solo.io/v2
kind: AccessPolicy
metadata:</pre>
```

```
name: frontend-ingress-access
namespace: app-team
spec:
applyToDestinations:
- selector:
    workspace: app-team
config:
    authz:
    allowedClients:
    - serviceAccountSelector:
    workspace: ops-team
EOF
```

• Open online-boutique

https://\$GLOO GATEWAY HTTPS



• Allow frontend to reach apis in same namespace

```
kubectl apply --context management -f - <<EOF
apiVersion: security.policy.gloo.solo.io/v2
kind: AccessPolicy
metadata:
   name: in-namespace-access
   namespace: app-team
spec:</pre>
```

```
applyToDestinations:
    selector:
    workspace: app-team
config:
    authz:
    allowedClients:
        - serviceAccountSelector:
        workspace: app-team
EOF
```

• Refresh page