

External Istio integration with ECP

Table of contents	Issue
Environment	ECP Platform comes with internal Istio from ECP marketplace but sometimes customer wants to use higher version of Istio and proceeds with installing latest Istio version themselves.
Cause	In such cases customer might see issues in creating new tenants and see below messages in controller logs.
Resolution	
	Mar 20 23:08:04 xxxxx01 BDS: MGMT :[error][bd_mgmt_api_tenant:00199] <0.6469.288> failed waiting for tenant to finish processing on Kubernetes cluster: timed out polling <a "peerauthentications"="" "security.istio.io"="" a<br="" api="" cannot="" group="" href="https://xxxxx01.com:10000/apis/hpecp.hpe.com/v1/namespaces/hpecp/hpecp-</td></tr><tr><td></td><td><u>tenants/hpecp-tenant-35</u> for resource complete status</td></tr><tr><td></td><td>This can be again verified in hpe-agent conatiner, you will see below errors.</td></tr><tr><td></td><td>This can be again vertice in tipe agent container, you will see below errors.</td></tr><tr><td></td><td>Pleas check hpe-agent-xxxx container logs in hpecp namespace and you will see some lines similar to this.</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td># kubectl logs -f hpecp-agent-984b5d4d4-k24px -n hpecp</td></tr><tr><td></td><td>E0320 17:24:42.975154 9 reflector.go:123] pkg/mod/k8s.io/client-go@v0.0.0-20191016111102-</td></tr><tr><td></td><td>bec269661e48/tools/cache/reflector.go:96: Failed to list *v1beta1.PeerAuthentication: peerauthentications.security.istio.io is
forbidden: User " in="" list="" resource="" system:serviceaccount:hpecp:hpecp-agent"="">the cluster scope
	Fundament
	Environment

Cause

ECP-5.5.1

This happens due to User "system:serviceaccount:hpecp:hpecp-agent" cannot list resource "peerauthentications" in API group "security.istio.io" at the cluster scope

Resolution

To overcome this. We need to provide service account hpecp:hpecp-agent, clusterrole istio-reader-clusterrole-istio-system

1. Get roles for Istio
kubectl describe clusterroles istio-reader-clusterrole-istio-system
2.Create a cluster role binding and assign it to service account hpecp:hpecp-agent
kubectl create clusterrolebinding hpecp-agent-clusterrolebinding-istioclusterrole=istio-reader-clusterrole-istio-systemserviceaccount=hpecp:hpecp-agent
Once above step is done . We should be able to create new tenants in cluster.
In order for newly created tenants to use istio edit tenant yaml and set enableServiceMesh: true
kubectl -n hpecp get hpecptenant hpecp-tenant-37 -o yaml grep enableServiceMesh
enableServiceMesh: true # Change from false to true

Steps on how to do this.

