Multi-Tenant Kubernetes Security

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Ø 📵 Workstation ▼ 📗 ▼ 🚇 🚇 🚇 🔲 🔲 🔯 🔯 💌 🗗 🐼 Worker1 🗴 🗀 Worker2 🗴
                                                                                                                                                                                                                                                                                                                                              · - - - X · · ·
                    master@master-vm:-/Desktop$ kubectl get nodes

NAME STATUS ROLES AGE VERSION

master-vm Ready control-plane 100m v1.28.15

worker1-vm Ready control-plane 100m v1.28.15

worker1-vm NotReady cnone> 30m v1.28.15

master@master-vm:-/Desktop$ kubectl apply of https://docs.projectcalico.org/manifests/calico.yaml

poddisruptionbudget.policy/calico-kube-controllers created

serviceaccount/calico-kube-controllers created

serviceaccount/calico-wobe-controllers created

serviceaccount/calico-config created

customresourcedefinition.apiextensions.k8s.io/bgpconfigurations.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/bgpconfigurations.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/bgpconfigurations.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/blockaffinities.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/calicondestatuses.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/clusterinformations.crd.projectcalico.org created

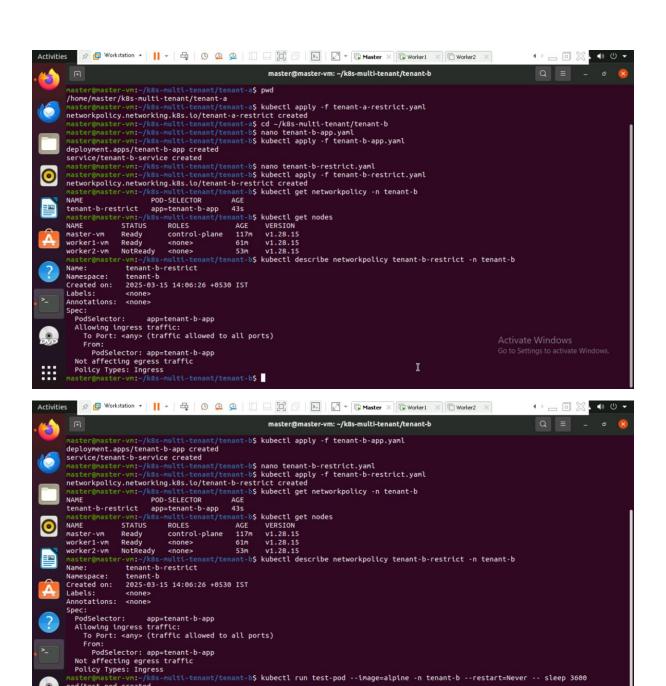
customresourcedefinition.apiextensions.k8s.io/globalnetworkpolicles.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/plobalnetworkpolicles.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/plabalnetworkpolicles.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/plabalnetworkpolicles.crd.projectcal
                                                                                                                                                               master@master-vm: ~/k8s-multi-tenant/tenant-a
        •
                      master@naster=vn., voice
namespace/tenant-a created
namespace/tenant-/nesktop$ kubectl create name
    master@master-vm:~/Desktop$ kubectl create namespace tenant-a
 namespace/tenant-a created
    master@master-vm:~/Desktop$ kubectl create namespace tenant-b
   namespace/tenant-b created
    naster@master-vm:~/Desktop$ mkdir -p ~/k8s-multi-tenant/tenant-a
     aster@master-vm:~/Desktop$ mkdir -p ~/k8s-multi-tenant/tenant-b
     aster@master-vm:~/Desktop$ cd ~/k8s-multi-tenant
    master@master-vm:~/k8s-multi-tenant$ cd ~/k8s-multi-tenant/tenant-a
    master@master-vm:-/k8s-multi-tenant/tenant-a$ nano tenant-a-app.yaml
master@master-vm:-/k8s-multi-tenant/tenant-a$ kubectl apply -f tenant-a-app.yaml
deployment.apps/tenant-a-app created service/tenant-a-service created
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master@master-vm:~/k8s-multi-tenant/tenant-a$ ls
kubectl tenant-a-app.yaml
master@master-vm:~/k8s-multi-tenant/tenant-a$ nano tenant-a-restrict.yaml
master@master-vm:~/k8s-multi-tenant/tenant-a$ kubectl apply -f tenant-a/tenant-a-restrict.yaml
error: the path "tenant-a/tenant-a-restrict.yaml" does not exist
master@master-vm:~/k8s-multi-tenant/tenant-a$ pwd
/home/master/k8s-multi-tenant/tenant-a
master@master-vm:~/k8s-multi-tenant/tenant-a$ kubectl apply -f tenant-a-restrict.yaml
networkpolicy.networking.k8s.io/tenant-a-restrict created
master@master-vm:~/k8s-multi-tenant/tenant-a$
```



pool/test-pool created
master@master-vn:-/kBs-multi-tenant/tenant-b\$ kubectl exec -it test-pod -n tenant-b -- wget --spider tenant-a (10.110.185.140:80)

Go to Settings to activate Window wget: can't connect to remote host (10.110.185.140): Operation timed out command terminated with exit code 1

master@master-vn:-/kBs-multi-tenant/tenant-b\$

pod/test-pod created
