

6 MAY 2020

# Tanzu vSphere 7 with Kubernetes on NSX-T 3.0 VDS Install Part 5: Testing, Demo Apps

In this section, we will perform some testing on the TKG clusters.

Step 1 – Login to the TKG Cluster and switch to the tkg cluster context.

kubectl vsphere login server 10.30.10.1 vsphere-username admii



root@ubuntu:~# kubectl vsphere login --server 10.30.10.1 --vsphere-username administrator@vsphere.local --insecure-skip-tls-verify --tanzu-kubernetes-cluster-name tkg-cluster --tanzu-kubernetes-cluster-namespace demo-app-01

#### Password:

Logged in successfully.

You have access to the following contexts:

kubectl config use-context tkg-cluster
kubectl get nodes

```
root@ubuntu:~# kubectl config use-context tkg-cluster
Switched to context "tkg-cluster".
[root@ubuntu:~# kubectl get nodes
NAME
                                            STATUS
                                                      ROLES
                                                               AGE
                                                                     VERSION
[tkg-cluster-control-plane-fh7rm
                                            Ready
                                                     master
                                                               17d
                                                                     v1.16.8+vmware.1
tkg-cluster-workers-lknmk-8777c64f7-69bbf
                                                                     v1.16.8+vmware.1
                                            Ready
                                                      <none>
                                                               17d
tkg-cluster-workers-lknmk-8777c64f7-zgzsw
                                            Ready
                                                      <none>
                                                               17d
                                                                     v1.16.8+vmware.1
```

### **Step 2 – Apply ClusterRole Security Policies.**

kubectl apply -f https://raw.githubusercontent.com/dstamen/Kul
▶

root@ubuntu:~# kubectl apply -f https://raw.githubusercontent.com/dstamen/Kubernetes/master/
demo-applications/allow-runasnonroot-clusterrole.yaml
clusterrole.rbac.authorization.k8s.io/psp:privileged unchanged
clusterrolebinding.rbac.authorization.k8s.io/all:psp:privileged unchanged



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I used the hipster shop demo.

```
kubectl create ns hipster
kubectl apply -f https://raw.githubusercontent.com/dstamen/Kul
```

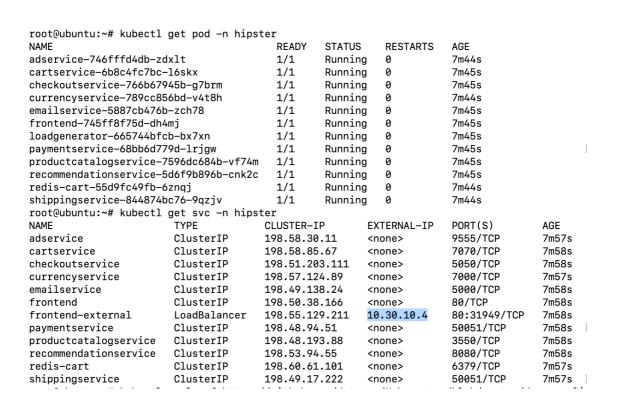
```
root@ubuntu:~# kubectl create ns hipster
namespace/hipster created
root@ubuntu:~# kubectl apply -f https://raw.githubusercontent.com/dstamen/Kubernetes/master/
demo-applications/demo-hipstershop.yaml -n hipster
deployment.apps/emailservice created
service/emailservice created
deployment.apps/checkoutservice created
service/checkoutservice created
deployment.apps/recommendationservice created
service/recommendationservice created
deployment.apps/frontend created
service/frontend created
service/frontend-external created
deployment.apps/paymentservice created
service/paymentservice created
deployment.apps/productcatalogservice created
service/productcatalogservice created
deployment.apps/cartservice created
service/cartservice created
deployment.apps/loadgenerator created
deployment.apps/currencyservice created
service/currencyservice created
deployment.apps/shippingservice created
[service/shippingservice created
deployment.apps/redis-cart created
[service/redis-cart created
deployment.apps/adservice created
service/adservice created
```

### Step 4 – Access the application.

Find out the virtual IP which is being load-balanced by NSX-T LB being assigned.

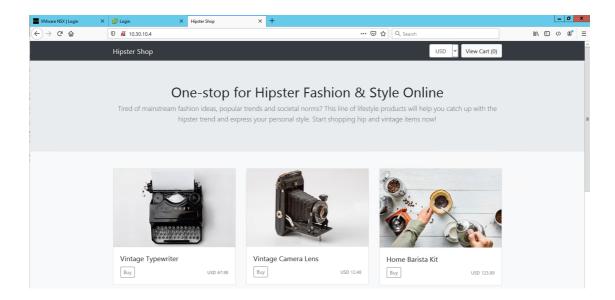
```
kubectl get pod -n hipster
kubectl get svc -n hipster
```





Viola! Now you can try to access the application!

http://10.30.10.4



That's it! Hopefully you find this vSphere with Kubernetes blog series



### Tanzu vSphere 7 with Kubernetes on NSX-T 3.0 VDS Install

Part 1: Overview, Design, Network Topology, Hardware Used

Part 2: ESXi, vCenter, VDS Config and NSX-T Manager

Part 3: NSX-T Edges, Segments, Tier-0 Routing

Part 4: Supervisor Cluster, Content Library, TKG Clusters

Part 5: Testing, Demo Apps



### **Vincent Han**

Your description here

— Vincent Han Blog —

NSX-T 2.1 Installation using ovftool (GA ver)

Kubernetes with NSX-T Container
Plugin Demo List

How to install AMKO on Tanzu Kubernetes
Clusters(TKC) / TKGService



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### Overview

PKS Pivotal Container Service 1.0 with NSX-T Installation

How to install AMKO on Tanzu
Kubernetes Clusters(TKC) / TKG-Service
\*\*\*Disclaimer: If you are using TKGService with NSX-T network with AMKO,
this solution is not supported by VMware
at the moment. It would be good for POC /
Testing only. \*\*\*Update (May 2021): I
have tested this on vSphere 7.0U2, NSX-T
3.1 and AMKO 1.4.1, below steps are still
valid. Introduction Well, let me guess. If
you stumble on this blog post, I would
assume you have seen the goodness and
coolness of AKO (AVI Kubernetes
Operator). ...

Author VINCENT HAN

## Tanzu vSphere 7 with Kubernetes on NSX-T 3.0 VDS Install Part 4: Supervisor Cluster, Content Library, TKG Clusters

In this section, we will enable Workload Management, creation of Supervisor Cluster, enabling Content Library as well as creation of TKG Clusters also known as Guest Clusters. Step 1 – Create the VM Storage Policies. Login to vCenter if you have not. Menu -> Datastores. Click on the datastore that you like to use for vSphere with Kubernetes. Under Tags, Click on Assign. Click on ADD TAG. ...



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