Every step is done inside the Master Node

Step 1 - Check for running Pod in all Namespaces, focus on Kube-System Namespace

kubectl get pods --all-namespaces

```
[SJCMAC17JJHD4:Downloads lcastro$ kubectl get pods --all-namespaces
NAMESPACE              NAME                                         READY   STATUS    RESTARTS   AGE
ingress-nginx          nginx-ingress-controller-767bbbd54f-89f9h    1/1     Running   39         30d
jenkins                jenkins-deployment-76c559fb4-kv2l5           1/1     Running   7          22d
kube-system            coredns-fb8b8dccf-8zqxd                      1/1     Running   228        63d
kube-system            coredns-fb8b8dccf-tcn5r                      1/1     Running   226        63d
kube-system            etcd-minikube                                1/1     Running   13         63d
kube-system            kube-addon-manager-minikube                  1/1     Running   9          63d
kube-system            kube-apiserver-minikube                      1/1     Running   154        63d
kube-system            kube-controller-manager-minikube             1/1     Running   51         3d22h
kube-system            kube-proxy-hfbzz                             1/1     Running   9          63d
kube-system            kube-scheduler-minikube                      1/1     Running   493        63d
kube-system            nginx-ingress-controller-b84556868-zf8md     1/1     Running   628        30d
kube-system            storage-provisioner                          1/1     Running   17         63d
kubernetes-dashboard   dashboard-metrics-scraper-c94cb59d4-qbrhq    1/1     Running   31         63d
kubernetes-dashboard   kubernetes-dashboard-7b69dd5d6b-n4ncr        1/1     Running   106        63d
twistlock              twistlock-console-5c8598d74-2rqq8            1/1     Running   10         62d
twistlock              twistlock-defender-ds-q87zn                  1/1     Running   5          24d
```

Step 2 - Create a Manifest YAML File

vi pod.yaml

```
apiVersion: v1
kind: Pod
metadata:
  name: myapp-pod
  labels:
    app: myapp
spec:
  containers:
  - name: myapp-container
    image: busybox
    command: ['sh', '-c', 'echo Hello Kubernetes! && sleep 3600']
```

Step 3 - Create a Pod from a YAML File

kubectl create -f pod.yaml

```
SJCMAC17JJHD4:Downloads lcastro$ kubectl create -f pod.yaml
pod/myapp-pod created
```

Step 4 - Validate running Pod

kubectl get pods

```
SJCMAC17JJHD4:Downloads lcastro$ kubectl get pods
NAME        READY   STATUS    RESTARTS   AGE
myapp-pod   1/1     Running   0          51s
```

Step 5 - See the output of the Pod

kubectl logs myapp-pod

```
SJCMAC17JJHD4:Downloads lcastro$ kubectl logs myapp-pod
Hello Kubernetes!
```

Step 6 - Change the Output of the Pod from YAML

Go inside the yaml file and change the 'echo command' as shown in bellow

vi pod.yaml

```
apiVersion: v1
kind: Pod
metadata:
  name: myapp-pod
  labels:
    app: myapp
spec:
  containers:
  - name: myapp-container
    image: busybox
    command: ['sh', '-c', 'echo Hello Palo Alto Networks! && sleep 3600']
```

Step 7 - Delete the Pod and create a new Pod

kubectl delete pods myapp-pod

kubectl create -f pod.yaml

```
[SJCMAC17JJHD4:Downloads lcastro$ kubectl delete pods myapp-pod
pod "myapp-pod" deleted
[SJCMAC17JJHD4:Downloads lcastro$ kubectl create -f pod.yaml
pod/myapp-pod created
```

Step 8 - Review the new output

kubectl logs myapp-pod

```
[SJCMAC17JJHD4:Downloads lcastro$ kubectl logs myapp-pod
Hello Palo Alto Networks!
```

Step 9 - Delete the Pod

kubectl delete pods myapp-pod

```
[SJCMAC17JJHD4:Downloads lcastro$ kubectl delete pods myapp-pod
pod "myapp-pod" deleted
```