**Answers to k8s advanced:**

1. Which command is used to display the k8s cluster version.

Kubect version

1. Which command is used to display the k8s cluster itself.

kubectl cluster-info

1. Which command is used to display all the nodes in the cluster.

kubectl get nodes

4.       Pick one node and perform the following actions in it:

a.       Describe the selected node. - kubectl describe node minikube

b.       Describe the selected node's used resources. - kubectl top nodes

5.       Which command is used to display all the resources in the cluster.

kubectl get all --all-namespaces

6.       Create a namespace with you name – Which command did you used and which command is used for displaying all the namespaces in the cluster.

kubectl create namespace orin

kubectl get namespaces

7.       Deploy ngnix (read briefly about ngnix and find out which port ngnix is running on) to the namespace you have just created.

I created a deployment yaml file and used this command:

kubectl apply -f deploy.yaml

then, to make the ngnix accessible, I created a service yaml and then used this command:

kubectl apply -f service.yaml

8.       Deploy a secret with the fields hafifa=True and name={your\_name} to the namespace you have just created.

I created a file named secret.yaml and encoded the mentioned values - k8s secrets require the values 'True' and 'orin' to be base64 encoded.

After creating this yaml file, I deployed it to the cluster using the command:

Kubectl apply -f secret.yaml

9.       Deploy  a configmap with a list of three facts about you and your age to the namespace you have just created.

I created a configmap yaml file with 3 facts about me, and then applied it with the following command:

Kubectl apply -f configmap.yaml

10.  Display all the:

a.       Pods

b.       Deployments

c.       Secrets

d.       Configmaps

Kubectl get pods/deployments/secrets/configmaps -n orin

11.  Perform the following actions about the ngnix pod:

a.       Describe the pod - 

b.       Print all the pods event - kubectl get events -n orin --field-selector involvedObject.name= nginx-576c6b7b6-6mqz4

c.       Print the pod's YAML - kubectl get pod nginx-576c6b7b6-6mqz4 -n orin -o yaml

d.       Print the pod's node - kubectl get pod nginx-576c6b7b6-6mqz4 -n orin -o jsonpath='{.spec.nodeName}'

f.         Print the pod's logs and the updates live - kubectl logs -f nginx-576c6b7b6-6mqz4 -n orin

g.        Execute /bin/bash inside the nodes container. - kubectl exec -it nginx-576c6b7b6-6mqz4 -n orin -- /bin/bash