- 1- Deploy a pod named nginx-pod using the nginx: alpine image with the labels set to tier=backend.
- 2- Deploy a test pod using the nginx:alpine image.
- 3- Create a service backend-service to expose the backend application within the cluster on port 80.
- 4- try to curl the backend-service from the test pod. What is the response?
- 5- Create a deployment named web-app using the image nginx with 2 replicas
- 6- Expose the web-app as service web-app-service application on port 30082 on the nodes on the cluster
- 7- access the web app from the node
- 8- How many Nodes exist on the system?
- 9- Do you see any taints on master ?
- 10- Apply a label color=blue to the master node
- 11- Create a new deployment named blue with the nginx image and 3 replicas Set Node Affinity to the deployment to place the pods on master only NodeAffinity: requiredDuringSchedulingIgnoredDuringExecution

Key: color values: blue

- 12- How many DaemonSets are created in the cluster in all namespaces?
- 13- what DaemonSets exist on the kube-system namespace?
- 14- What is the image used by the POD deployed by the kube-proxy DaemonSet
- 15- Deploy a DaemonSet for FluentD Logging. Use the given specifications.

Name: elasticsearch

Namespace: kube-system

Image: k8s.gcr.io/fluentd-elasticsearch:1.20

- 16- Create a taint on node01 with key of spray, value of mortein and effect of NoSchedule
- 17- Create a new pod with the NGINX image, and Pod name as mosquito
- 18- What is the state of the mosquito POD?
- 19- Create another pod named bee with the NGINX image, which has a toleration set to the taint Mortein

Image name: nginx

Key: spray Value: mortein Effect: NoSchedule Status: Running

- 20- Remove the taint on master/controlplane, which currently has the taint effect of NoSchedule
- 21- What is the state of the pod mosquito now and Which node is the POD mosquito on?