

1- How many `DaemonSets` are created in the cluster in all namespaces?

2- what `DaemonSets` exist on the `kube-system` namespace?

3- What is the image used by the `POD` deployed by the `kube-proxy` `DaemonSet`

4- Deploy a `DaemonSet` for `FluentD` Logging. Use the given specifications.

Name: `elasticsearch`

Namespace: `kube-system`

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

5- Deploy a pod named `nginx-pod` using the `nginx:alpine` image with the labels set to `tier=backend`.

6- Deploy a test pod using the `nginx:alpine` image.

7- Create a service `backend-service` to expose the `backend` application within the cluster on port 80.

8- try to curl the `backend-service` from the test pod. What is the response?

9- Create a deployment named `web-app` using the image `nginx` with 2 replicas

10- Expose the `web-app` as service `web-app-service` application on port 80 and nodeport `30082` on the nodes on the cluster

11- access the web app from the node

12- How many static pods exist in this cluster in all namespaces?

13-On which nodes are the static pods created currently?