

- 1- How many Namespaces exist on the system?
- 2- How many pods exist in the `kube-system` namespace?
- 3- Create a deployment with
 - Name: `beta`
 - Image: `redis`
 - Replicas: `2`
 - Namespace: `finance`
 - Resources Requests:
 - CPU: `500m`
 - Mem: `1G`
 - Resources Limits:
 - CPU: `1`
 - Mem: `2G`
- 4- Apply a label `color=blue` to the master node
- 5- 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`
- 6- Create a namespace named `"iti"` with a resource quota on pods `"2"`
- 7- Create a deployment named `"nginx"` with image `"nginx"`, replicas 3 on the `"iti"` namespace
- 8- How many pods have been created within the `nginx` deployment and why?
- 9- Create LimitRange for the `"gold"` namespace with memory (limit: 500 Mi, request: 200 Mi)
- 10- Create a pod named `"ingot"` in the `"gold"` namespace
- 11- What is the QOS for the pod `"ingot"` and why?