1st question:

Create NS and SA

```
controlplane $
controlplane $
controlplane $ k create ns app-team1
namespace/app-team1 created
controlplane $
controlplane $ k create sa cicd-token -n app-team1
serviceaccount/cicd-token created
controlplane $
controlplane $ k get sa -n app-team1
NAME           SECRETS     AGE
cicd-token     0           8s
default        0           30s
controlplane $
```

```
controlplane $
controlplane $ kubectl create clusterrole deployment-clusterrole --verb=create --resource=Deployments,StatefulSets,Da
emonSets
clusterrole.rbac.authorization.k8s.io/deployment-clusterrole created
controlplane $
controlplane $ kubectl create clusterrolebinding deployment-clusterrole-binding --clusterrole=deployment-clusterrole
--serviceaccount=app-team1:cicd-token --namespace=app-team1
clusterrolebinding.rbac.authorization.k8s.io/deployment-clusterrole-binding created
controlplane $
controlplane $ k get clusterrolebinding
NAME                                                    ROLE
                            AGE
calico-kube-controllers                                 ClusterRole/calico-kube-controllers
                            5d14h
canal-calico                                            ClusterRole/calico-node
                            5d14h
canal-flannel                                           ClusterRole/flannel
                            5d14h
cluster-admin                                           ClusterRole/cluster-admin
                            5d14h
deployment-clusterrole-binding                          ClusterRole/deployment-clusterrole
                            14s
kubeadm:cluster-admins                                  ClusterRole/cluster-admin
```

```
controlplane $
controlplane $ kubectl auth can-i list deployments --as=system:serviceaccount:app-team1:cicd-token -n app-team1
no
controlplane $
controlplane $ kubectl auth can-i create deployments --as=system:serviceaccount:app-team1:cicd-token -n app-team1
yes
controlplane $
controlplane $
```

2nd question:

```
controlplane $ k create sa pvviewer
serviceaccount/pvviewer created
controlplane $
controlplane $ k get sa
NAME       SECRETS  AGE
default    0        5d14h
pvviewer   0        3s
controlplane $
controlplane $ kubectl create clusterrole pvviewer-role --verb=list --resource=PersistentVolumes
clusterrole.rbac.authorization.k8s.io/pvviewer-role created
controlplane $
controlplane $ kubectl create clusterrolebinding pvviewer-role-binding --clusterrole=pvviewer-role --serviceaccount=d
efault:pvviewer
clusterrolebinding.rbac.authorization.k8s.io/pvviewer-role-binding created
controlplane $
controlplane $
```

```
controlplane $
controlplane $ kubectl auth can-i list PersistentVolumes --as=system:serviceaccount:default:pvviewer
Warning: resource 'persistentvolumes' is not namespace scoped

yes
controlplane $ kubectl auth can-i list pods --as=system:serviceaccount:default:pvviewer
no
controlplane $ kubectl auth can-i create PersistentVolumes --as=system:serviceaccount:default:pvviewer
Warning: resource 'persistentvolumes' is not namespace scoped

no
controlplane $
```