**Run Jenkins at Scale with Distributed Builds on Kubernetes**

Created Jenkins Namespace k create namespace jenkins –-dry-run=client -o yaml > ns.yaml

apiVersion: v1

kind: Namespace

metadata:

creationTimestamp: null

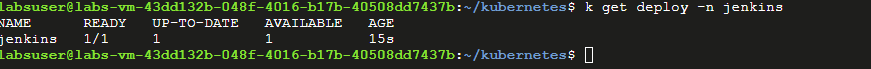
name: jenkins

spec: {}

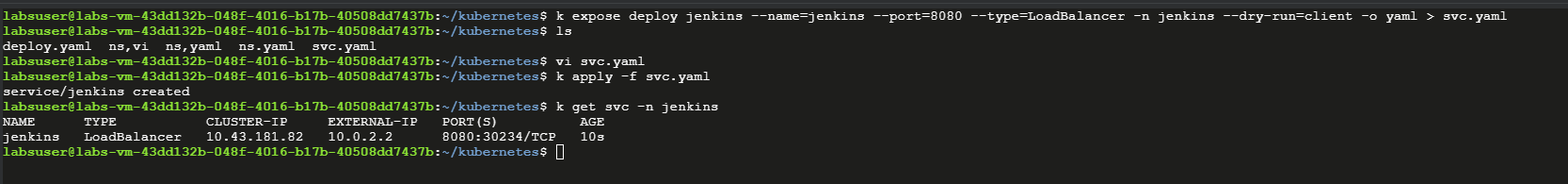
status: {}

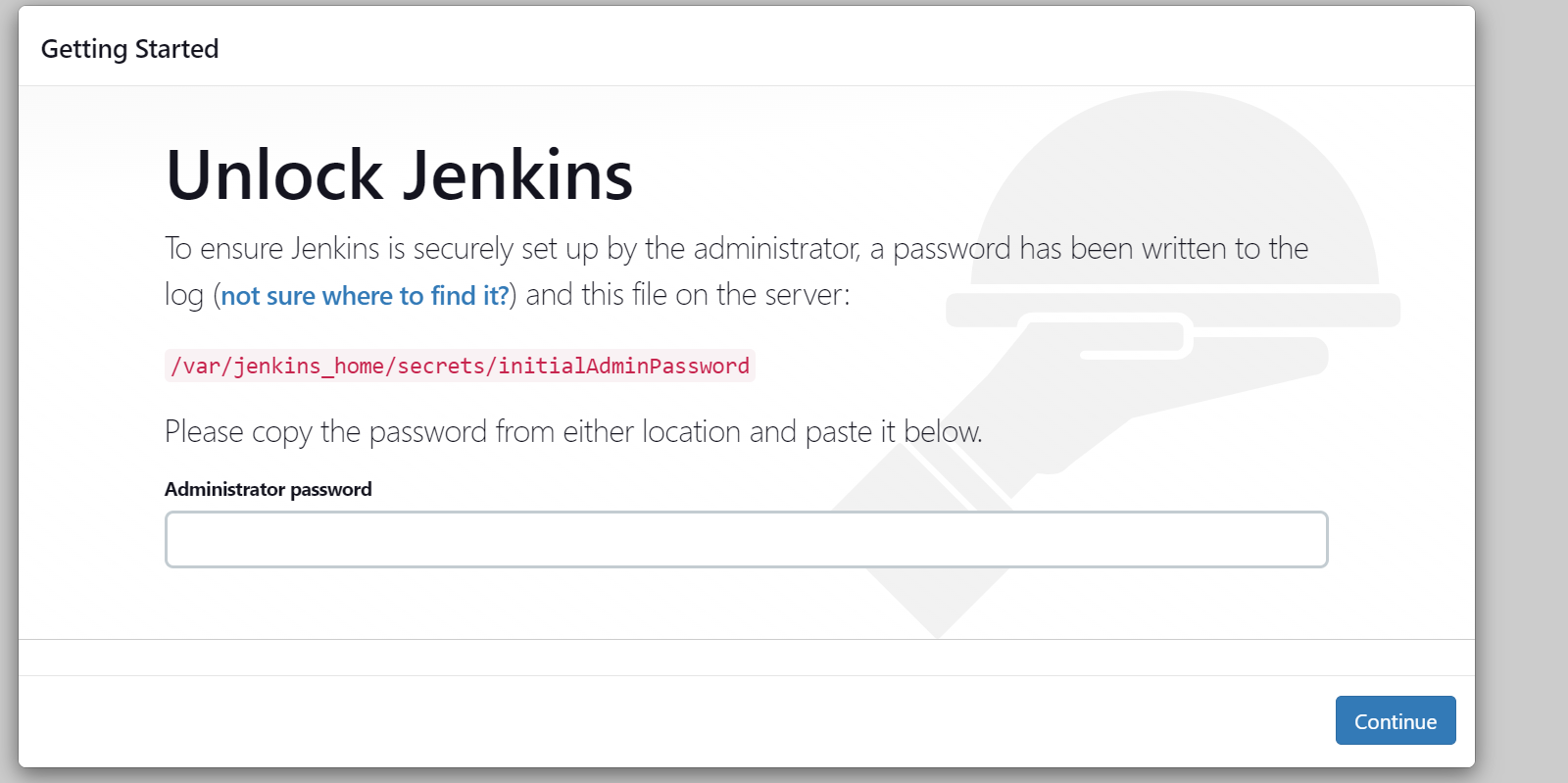
K apply -f ns.yaml

Create deploy with image - jenkins/jenkins:2.375.1-lts

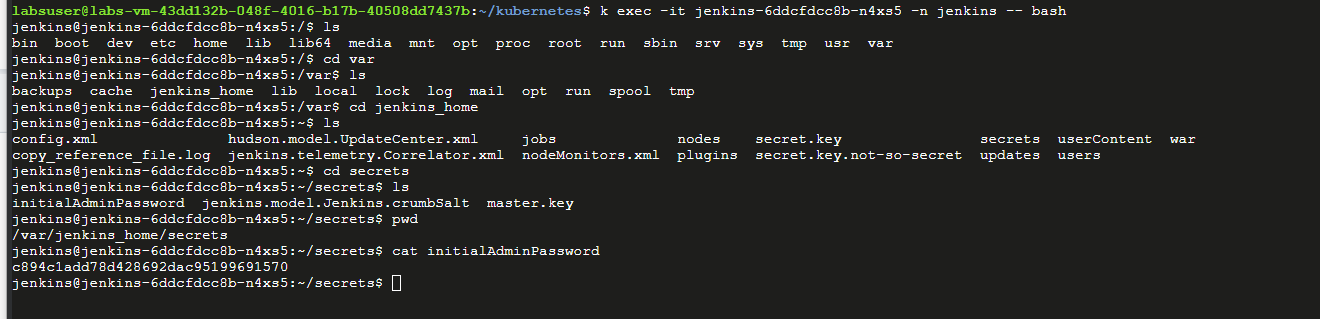


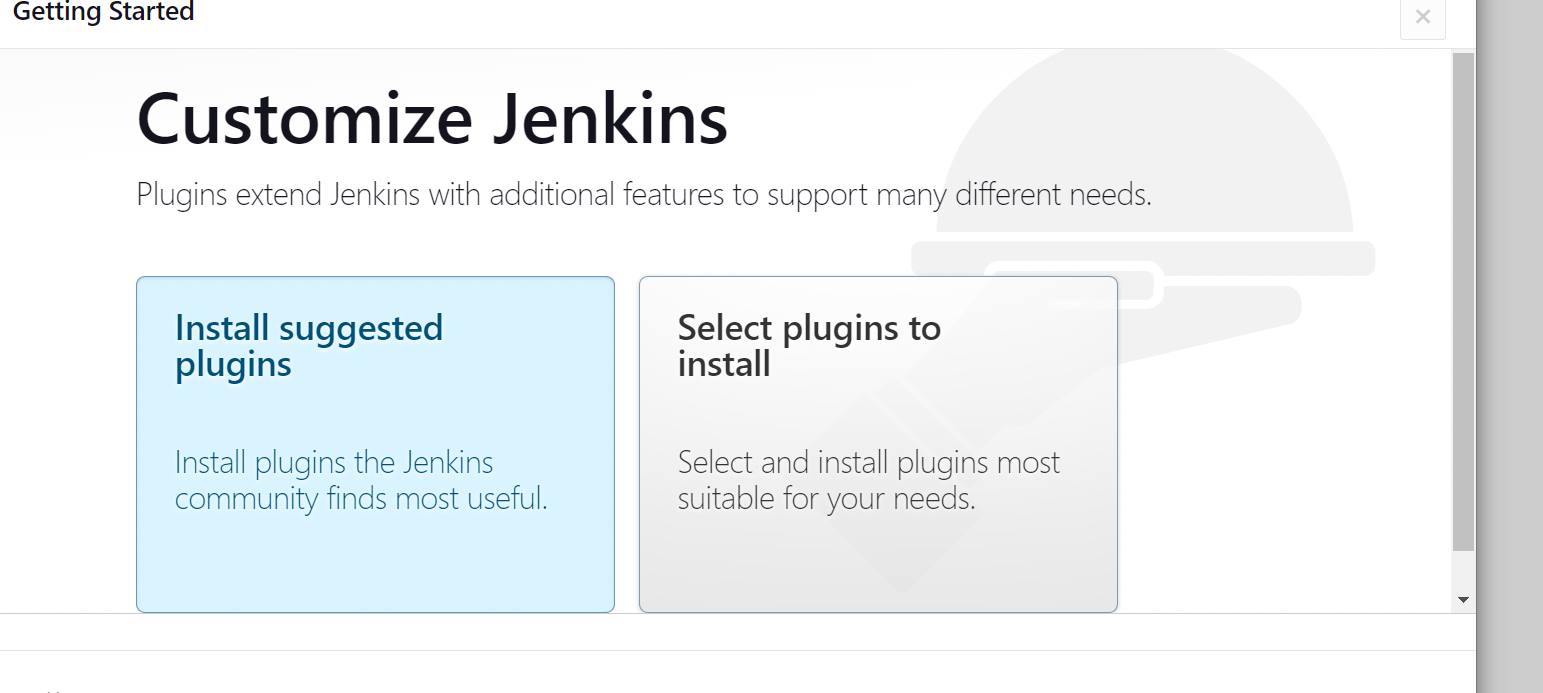
Create a service jenkins as below

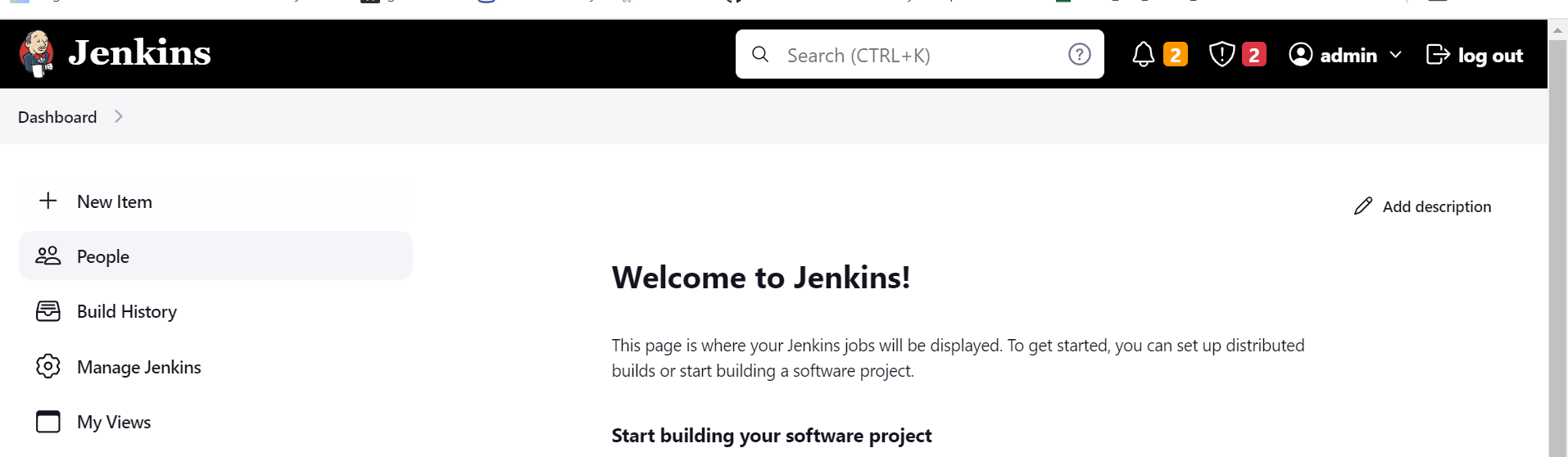




Get the password by logging into pod/var folder

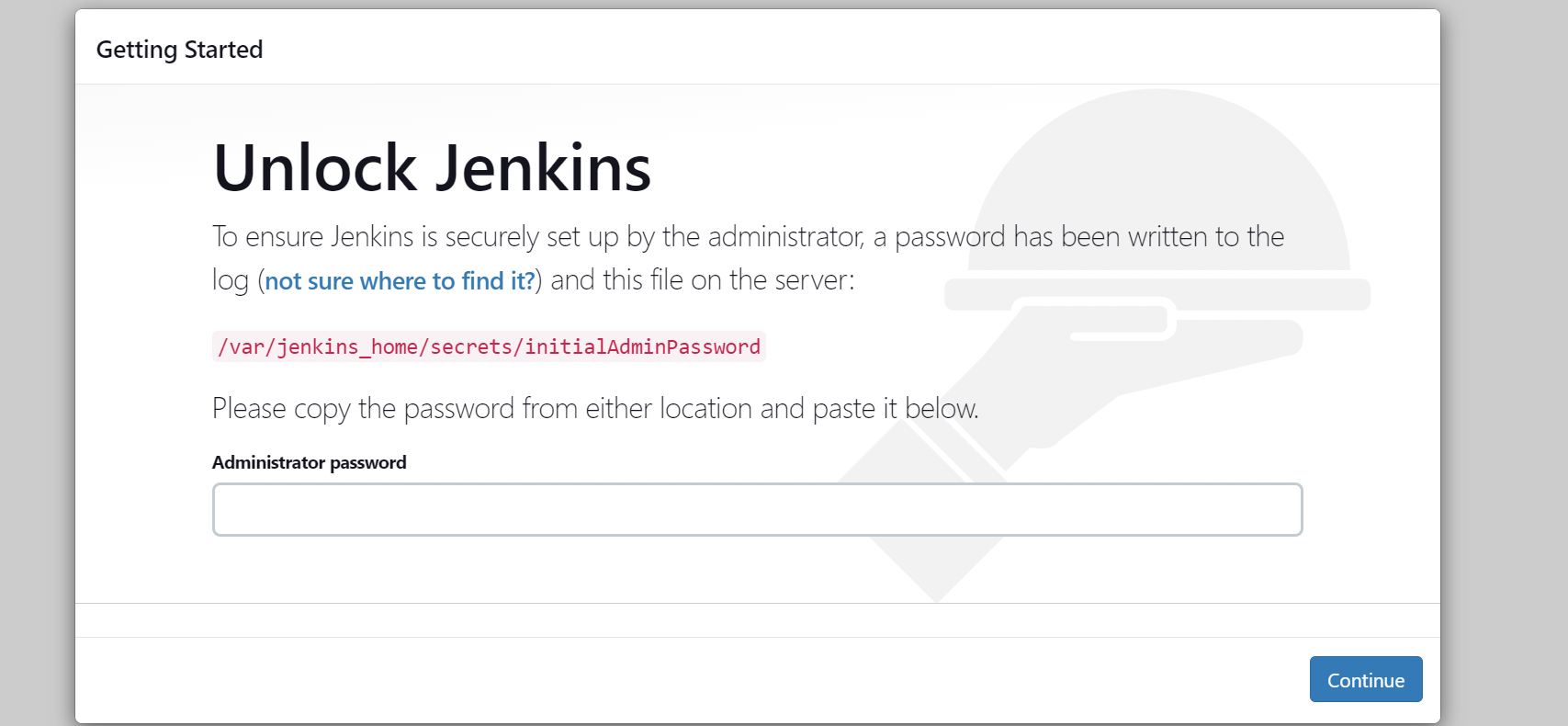




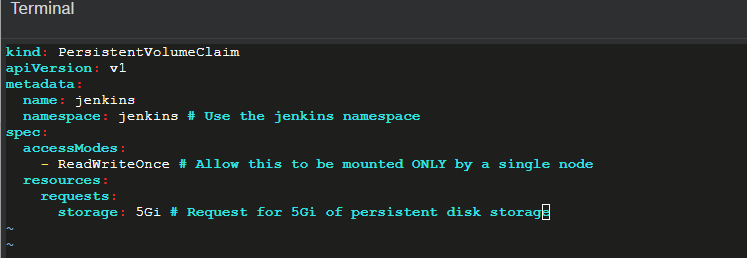


Delete and re-created the POD. Jenkins will dis-appear.

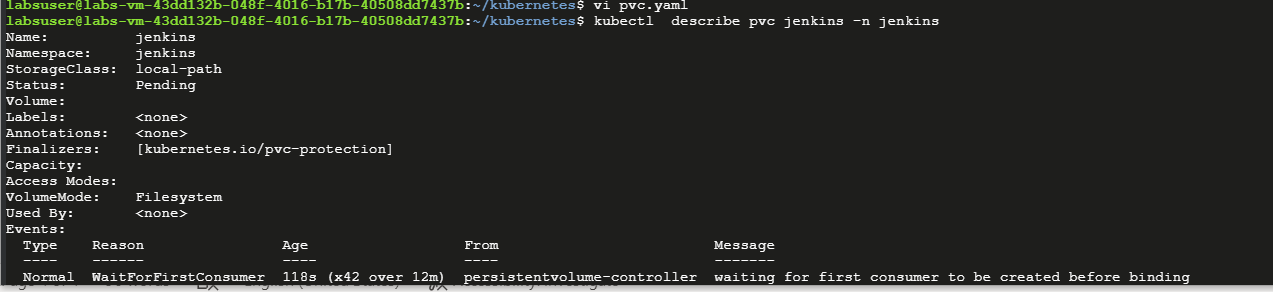
You will see that all the configurations that you applied are lost, and that's because the pod doesn't have any persistent storage.



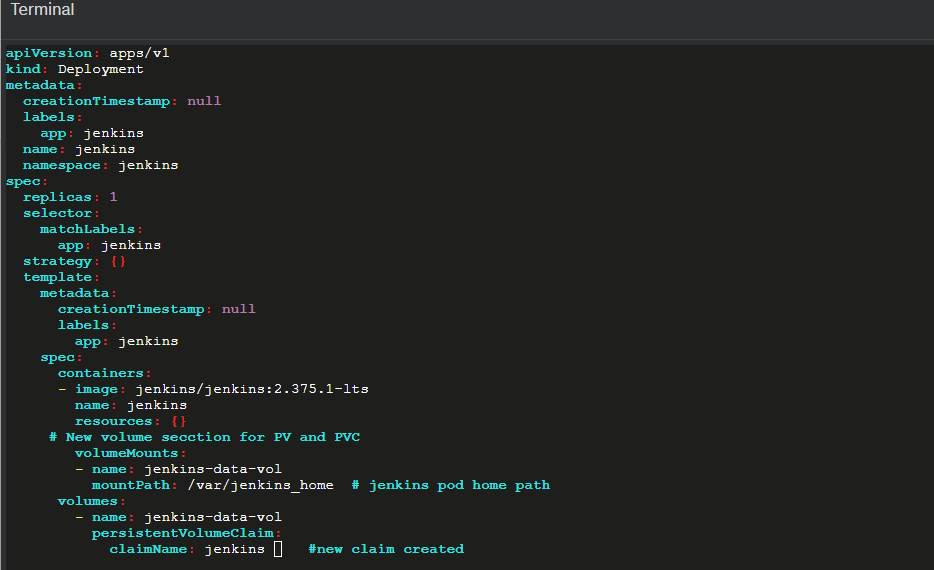
Crated PVC



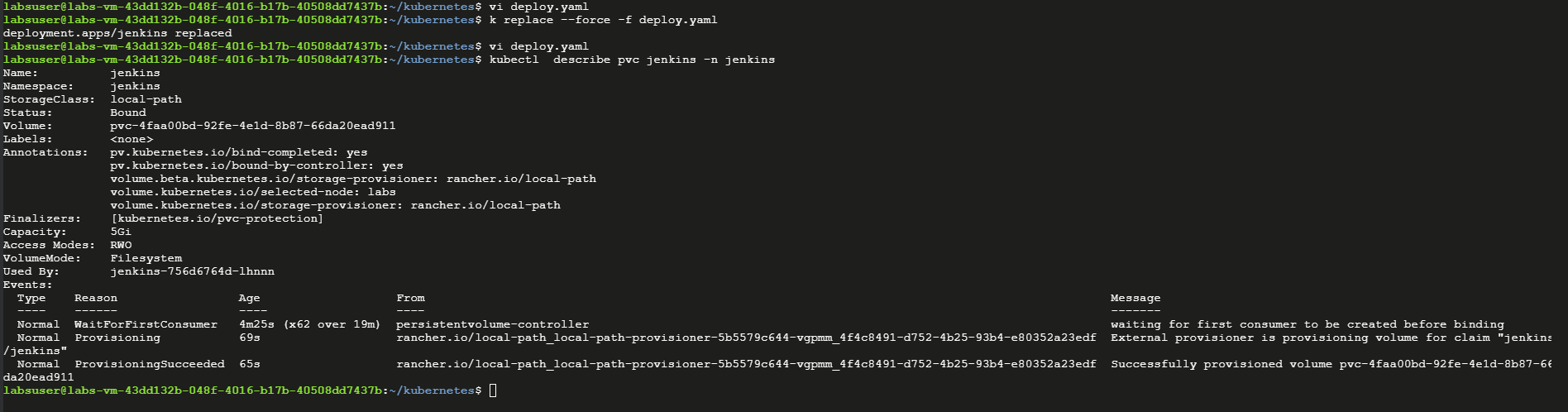
Created PVC, waiting for volume bound



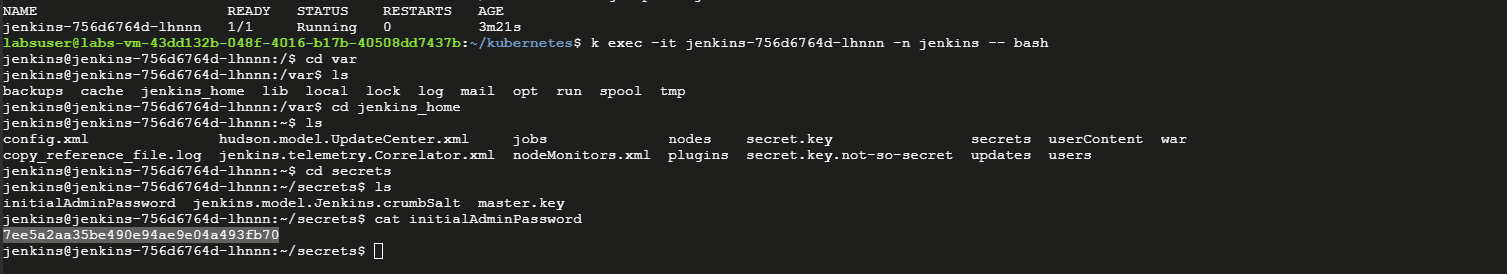
Apply to deploy:



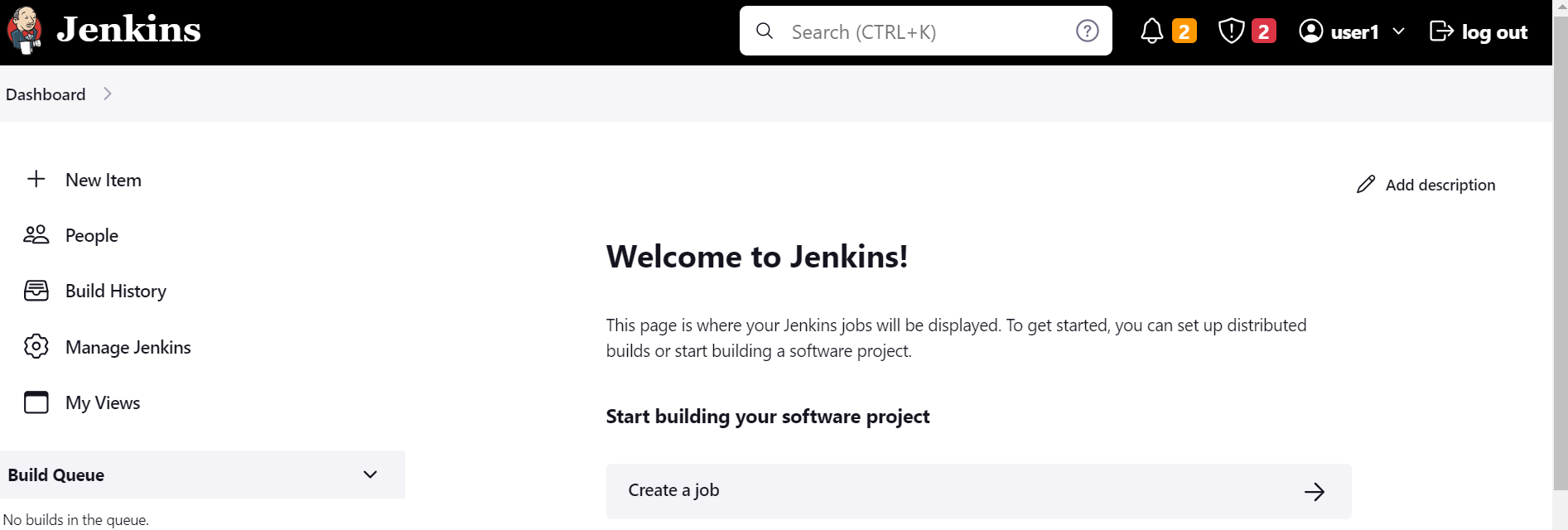
Persistent claim got attached to volumeclaim



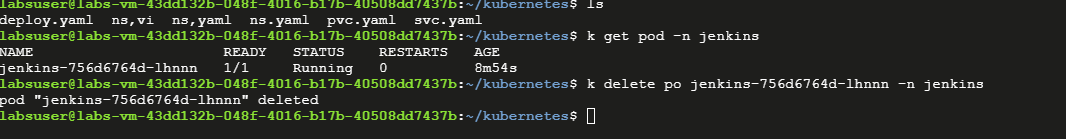
Get jenkins password

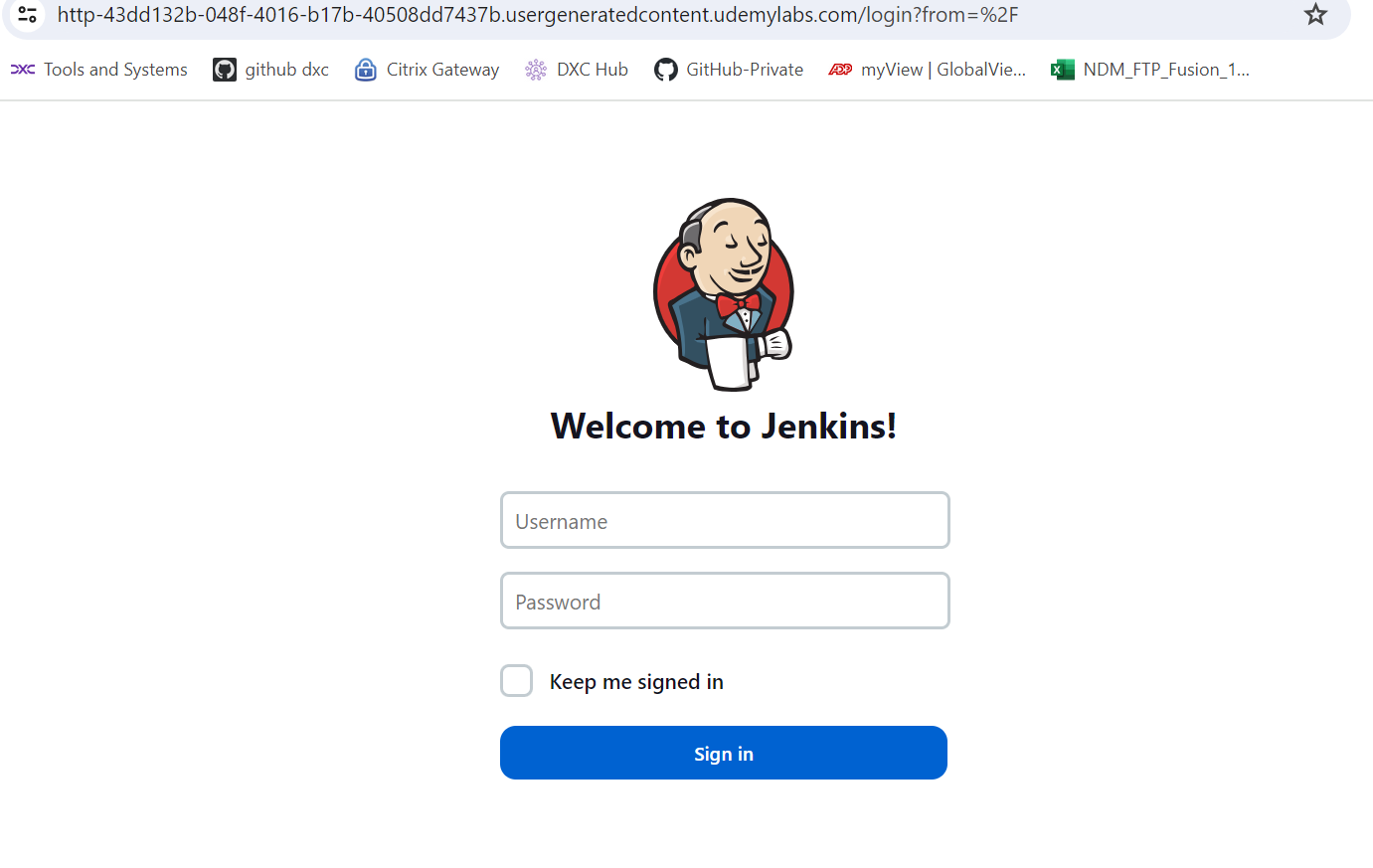


Jenkins got up by using the new password

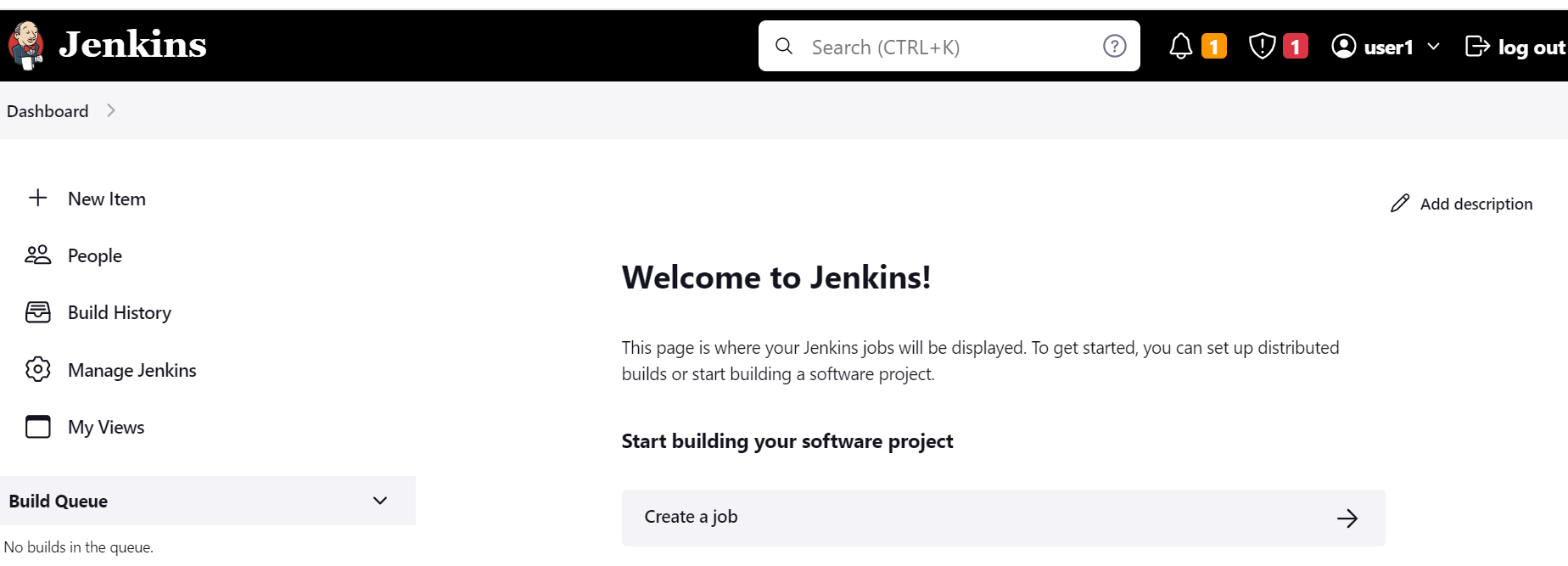


After I delete POD, jenkins just ask for password we create

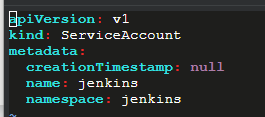
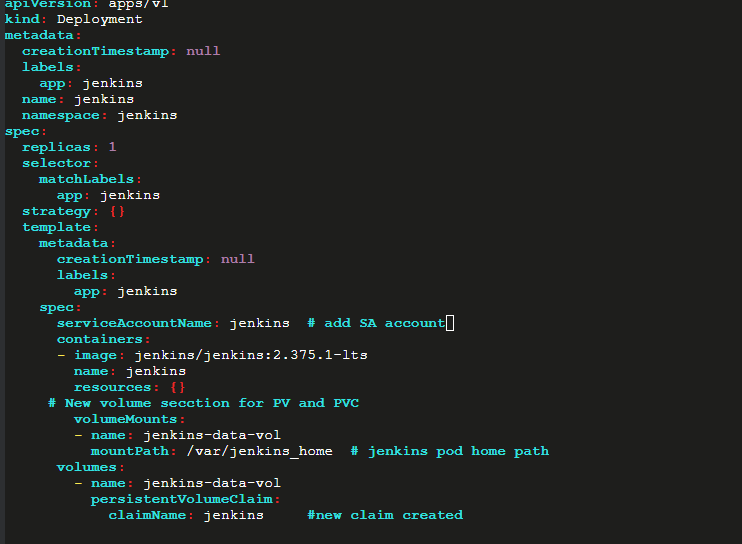




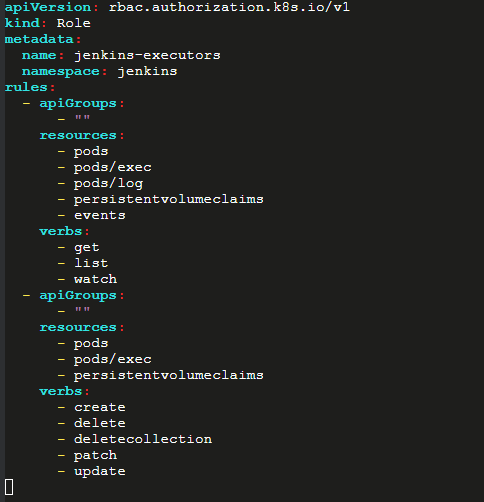
POD is up and jenkins can be logged in with old password.

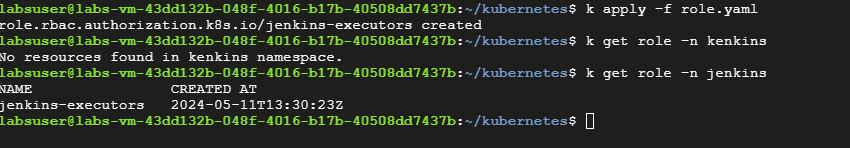


Configure the RBAC executor for jenkins executor

* Create SA account jenkins (k create sa jenkins -n jenkins)
* 
* Setup deploy to run only from jenkins sa account
* 
* Create RBAC - jenkins-executors – role and role binding

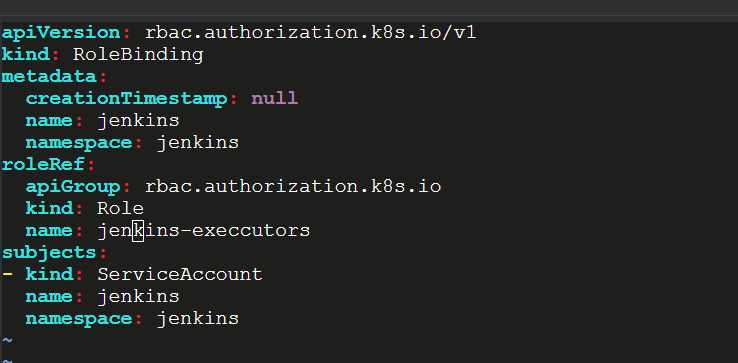
Role:



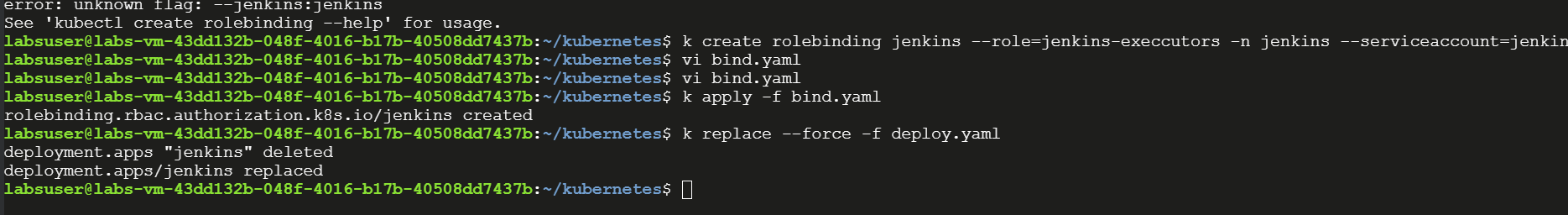


Role Binding:

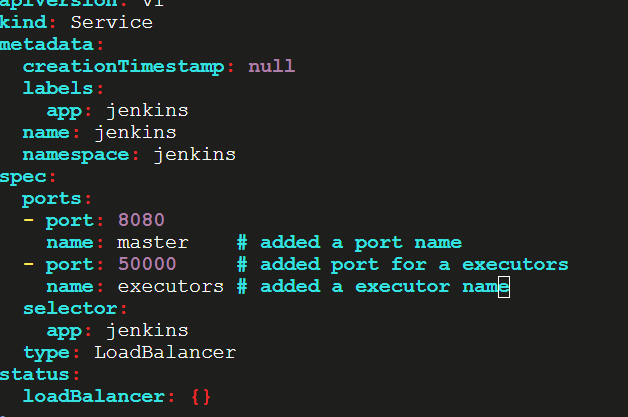
k create rolebinding jenkins --role=jenkins-execcutors -n jenkins --serviceaccount=jenkins:jenkins --dry-run=client -o yaml > bind.yaml



Noe recreate deployments



Added executor port



Recreated a svs:

