Experiment – Jenkins in AKS

We can install Jenkins in a Bitnami Container in a few minutes. This allows us to work in an ephemeral Jenkins containerized environment that we can iterate pipelines.

Setup of Jenkins in AKS with Helm

student1@Azure:~$ **helm repo add bitnami https://charts.bitnami.com/bitnami**

student1@Azure:~$ **helm install jenkins-release bitnami/jenkins**

NAME: jenkins-release

LAST DEPLOYED: Fri May 20 01:44:52 2022

NAMESPACE: default

STATUS: deployed

REVISION: 1

TEST SUITE: None

NOTES:

CHART NAME: jenkins

CHART VERSION: 10.0.8

APP VERSION: 2.332.2

** Please be patient while the chart is being deployed **

1. Get the Jenkins URL by running:

** Please ensure an external IP is associated to the jenkins-release service before proceeding **

** Watch the status using: kubectl get svc --namespace default -w jenkins-release **

export SERVICE_IP=$(kubectl get svc --namespace default jenkins-release --template "{{ range (index .status.loadBalancer.ingress 0) }}{{ . }}{{ end }}")

echo "Jenkins URL: http://$SERVICE_IP/"

2. Login with the following credentials

echo Username: user

echo Password: $(kubectl get secret --namespace default jenkins-release -o jsonpath="{.data.jenkins-password}" | base64 --decode)

Note: All the detail to use our container in AKS is available in the output from the Bitnami Jenkins container installation. This is a really huge bonus of Bitnami containers, they come with the basic instructions to get started and are wired for simple usage.

Examine our AKS Jenkins environment

student1@Azure:~$ **kubectl get svc --namespace default -w jenkins-release**

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

jenkins-release LoadBalancer 10.0.217.216 20.252.42.17 80:30721/TCP,443:30023/TCP 24s

student1@Azure:~$ **export SERVICE_IP=$(kubectl get svc --namespace default jenkins-release --template "{{ range (index .status.loadBalancer.ingress 0) }}{{ . }}{{ end }}")**

student1@Azure:~$ **echo "Jenkins URL: http://$SERVICE_IP/"**

Jenkins URL: http://20.252.42.17/

student1@Azure:~$ **echo Username: user**

Username: user

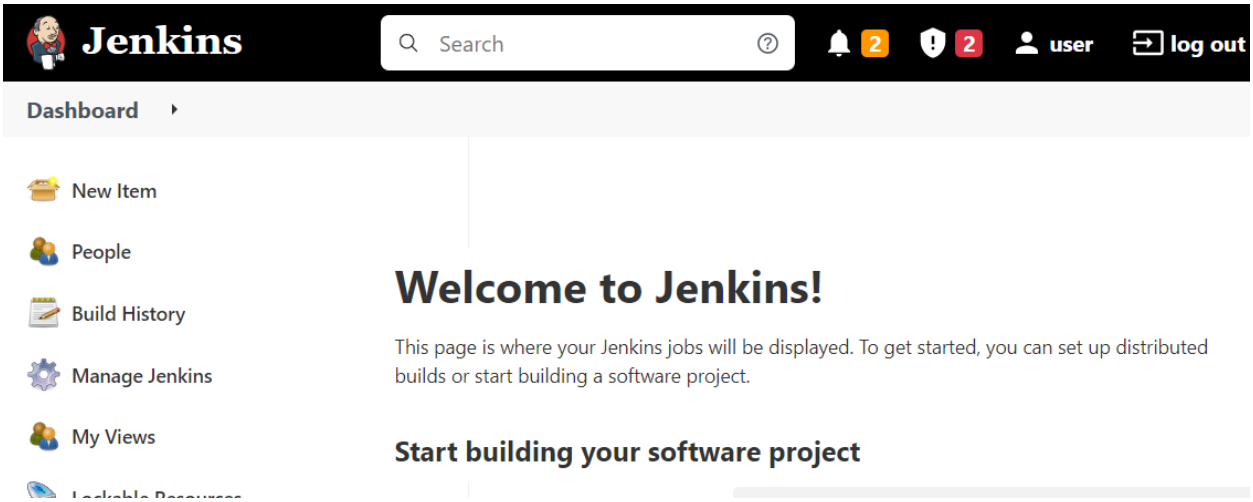
student1@Azure:~$ **echo Password: $(kubectl get secret --namespace default jenkins-release -o jsonpath="{.data.jenkins-password}" | base64 --decode)**

Password:

wlWftDgf8v

Access Jenkins Console

Load the Jenkins URL in a web browser and enter the username and password.



Congratulations you’re now running Jenkins in AKS in a container.