DRAFT V - Needs Validation

Stage 1 - Installing Jenkins - Steps

Clone this git repo and cd into the /JeninsInstall folder.

https://github.com/reagul/Jenkins-VS7-K8s

Steps in Order:

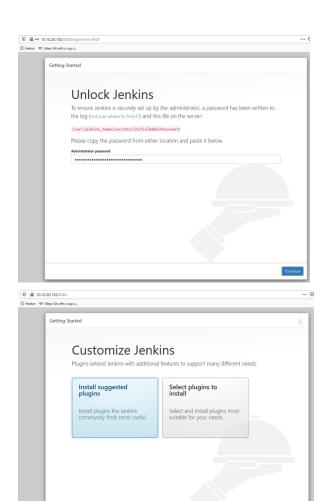
- Install Namespace
 - o \$ kubectl create namespace jenkins
- Install PV
 - o \$ kubectl apply -f jenkins.pv.yaml
- Install RBAC
 - o \$ kubectl apply -f jenkins.rbac.yaml
- Install SVC
 - o \$ kubectl apply -f jenkins.svc.yaml

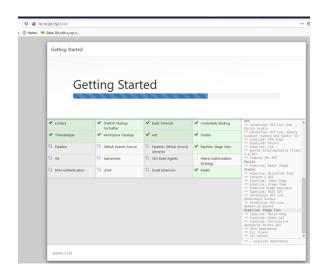
Snapshot of services installed at this stage.

- Install Deployment
 - o \$ kubectl apply -f jenkins.deployment.yaml

At this stage you should have Jenkins come up at the LB Ip.

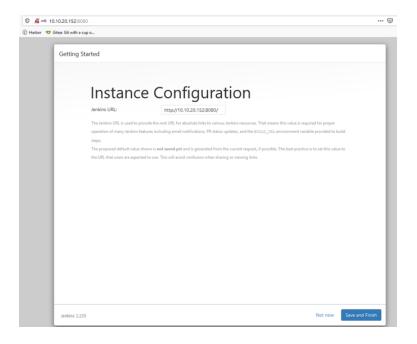
- Get TMP PWD via
 - o kubectl logs jenkins-pod.
 - This will be entered to loginto the install page first time
- Access Jenkins install on the LoadBalancer IP
- Go to the LB Ip and http://LBIP-address:8080





Once all base plugins are installed, it will prompt to create Create Admin account.

Enter credentails and go to next page "instance configuration"



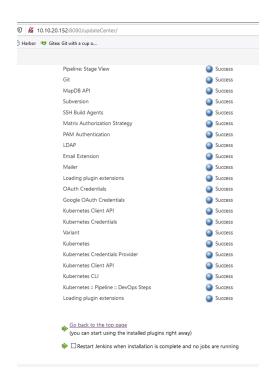


If you are here.. then the Jenkins Install has completed.

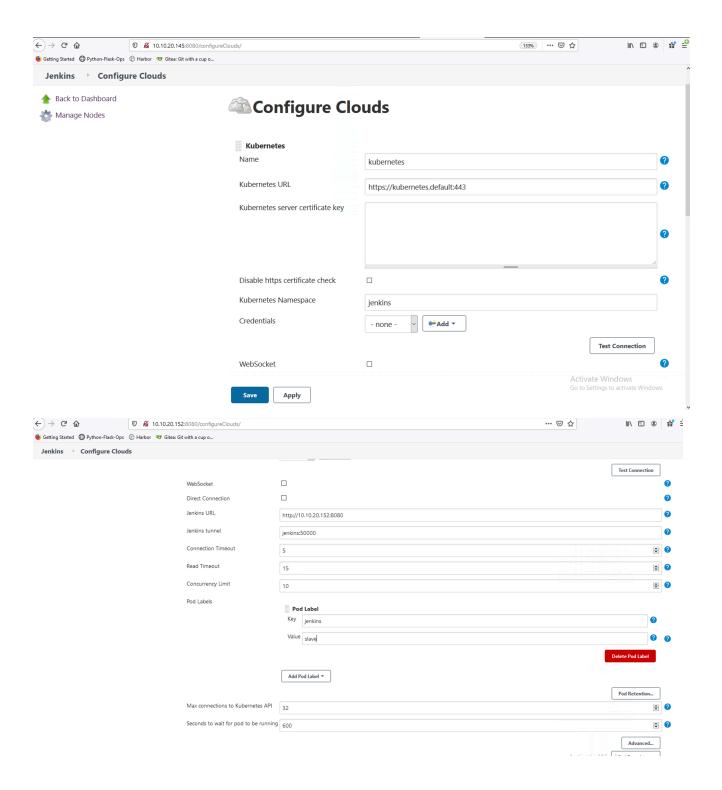
Stage 2 Next Let us configure Kubernetes Plugins

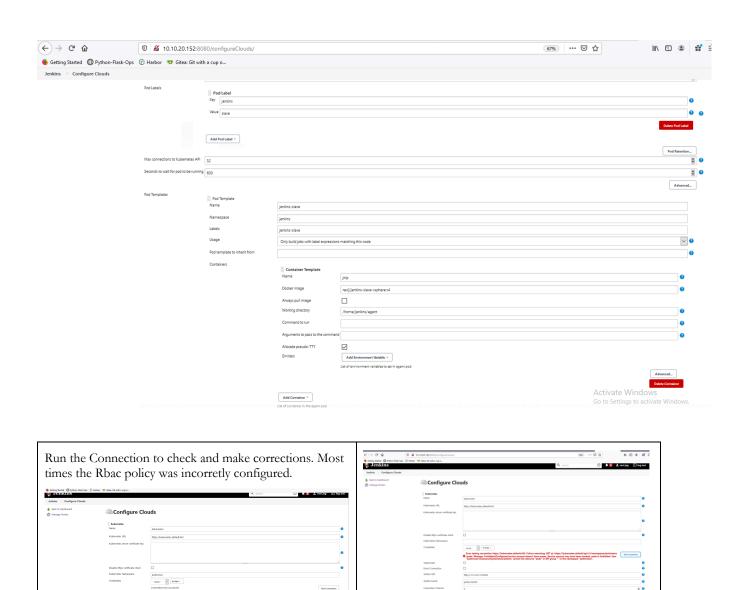
Install the base Kubernetes plugins

- Kubernetes Continuous Deploy
- Kubernetes Cli
- Kubernetes Credentials Provider
- Kubernetes :: Pipeline :: DevOps Steps
- Kubernetes :: Pipeline :: Kubernetes Steps

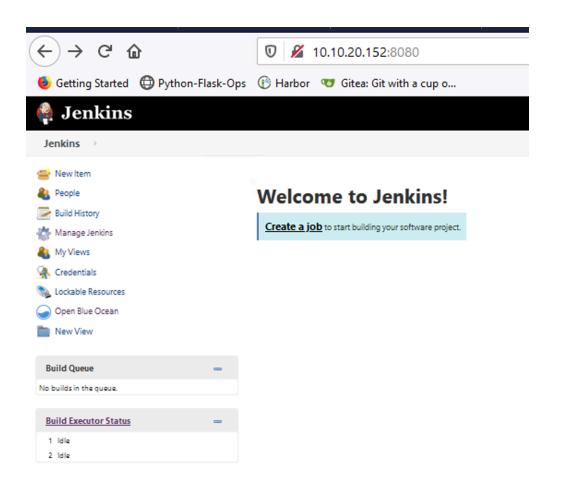


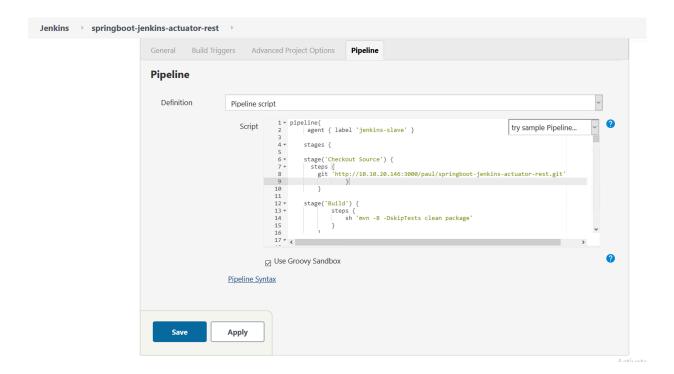
Stage 3 Configure Kubernetes cloud





Stage 4 – Create a Sample Pipeline





Copy the script from here https://github.com/reagul/Jenkins-VS7-K8s/blob/master/Hello-Kubernetes-Jenkins-File

It will deploy a Hello Kubernetes php app with a Loadbalancer type.

Pipeline Notes:

Using Kubeconfig to connect with your K8 cluster

Kubeconfig Plugin: Enable Kubernetes plugin on the Jenkins Dashboard

Steps:

- From your Cmd console { after having logged into your K8 } type
 - o kubectl config view > k8config
- Create a Jenkins space credential
 - o Paste the contents of your kubeconfig you got here. Be mindful of injecting spaces / special chars while pasting. If so, recommend deleting and re-creating it again.
- Use the creds as show below in your Jenkins pipeline. Note the kubeconfigId.. below.. it should match your ID when you created the credentials. If a default one was allocated to you, use it instead.
- Here we are deploying a yaml file that was fetched with git in the prev step