Demo: Demo on configuring Jenkins pipeline plugin

Problem statement: To deploy JAVA application with Jenkins X and GKE

Solution:

Step 1: Use jx boot from jx CLI. (Ensure you are using helm version 2)

Prerequisite: Configure tiller for the cluster

kubectl create serviceaccount --namespace kube-system tiller

kubectl create clusterrolebinding tiller-cluster-rule --clusterrole=cluster-admin --serviceaccount=kubesystem:tiller

kubectl patch deploy --namespace kube-system tiller-deploy -p
'{"spec":{"template":{"spec":{"serviceAccount":"tiller"}}}}'

helm init --service-account tiller --upgrade

Commands to run:

git clone https://github.com/jenkins-x/jenkins-x-boot-config.git

[You need to clone below repository to work with jx boot]

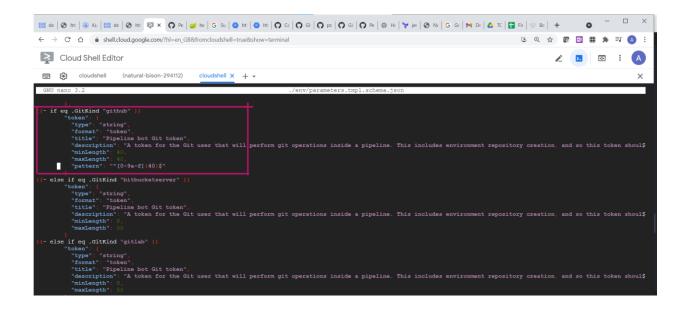
cd jenkins-x-boot-config/

Please update pattern in parmas.json file

Commands to run:

[go to git repository for Jenkins-x-boot-config]

nano ./env/parameters.tmpl.schema.json

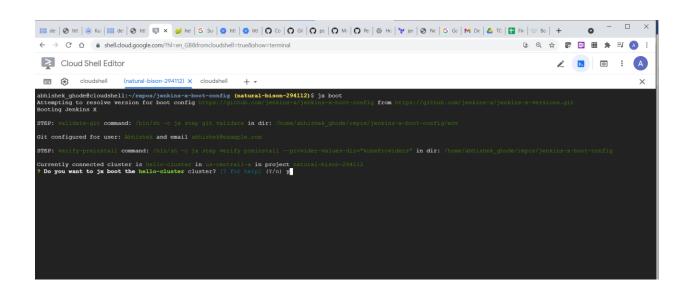


Instead of: "pattern": "^[0-9a-f]{40}\$"

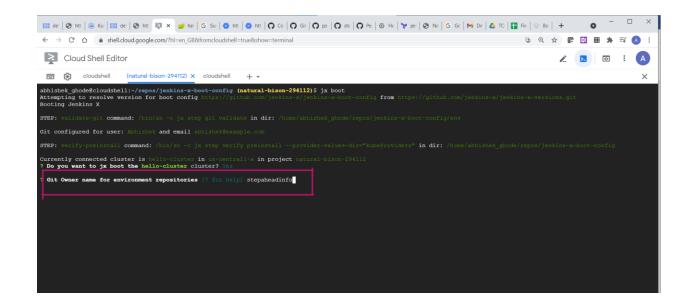
Use: "pattern": "^[0-9a-zA-Z_]{40}\$"

Step 2: Configure jx boot now.

jx boot

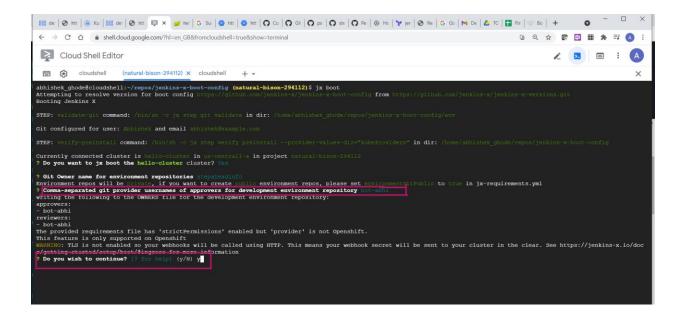


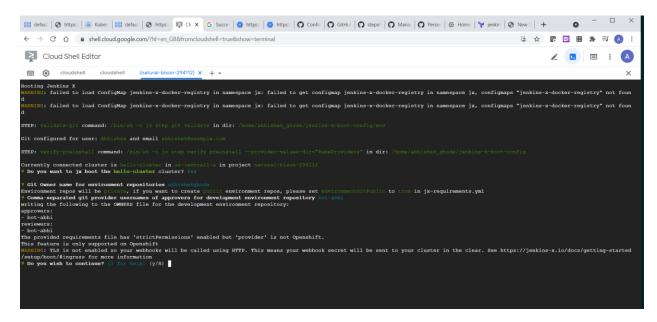
git owner is the name of organization that you have created in your GitHub account.



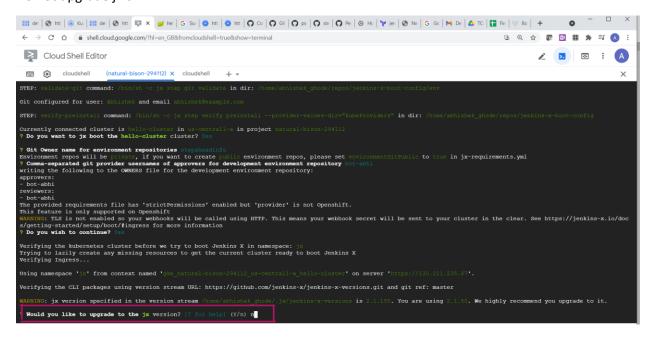
Specify username as a git bot user you may have created earlier.

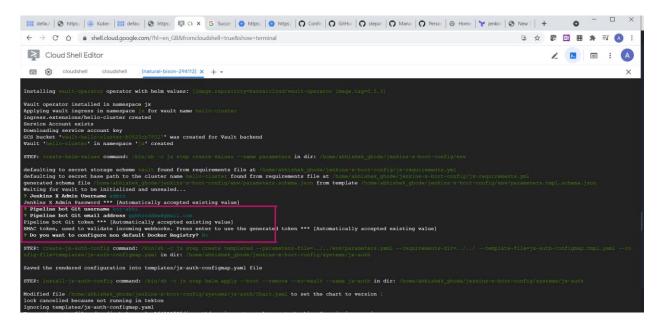
Tls is not enabled for webhooks. You can type 'yes' here.





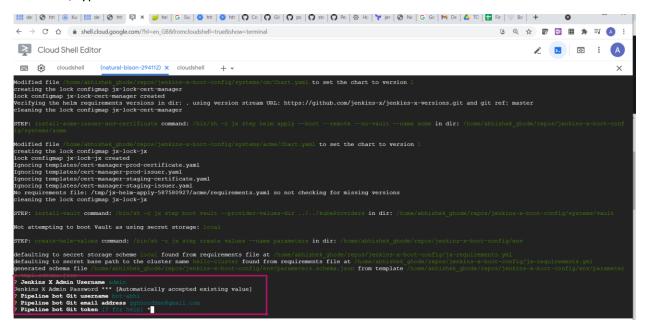
Do not upgrade jx cli.





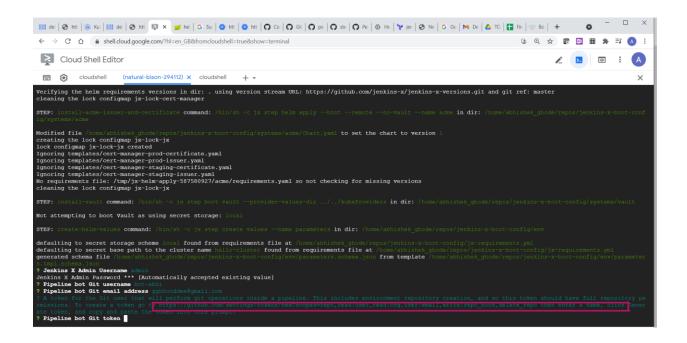
Provide bot git username as a bot user for git.

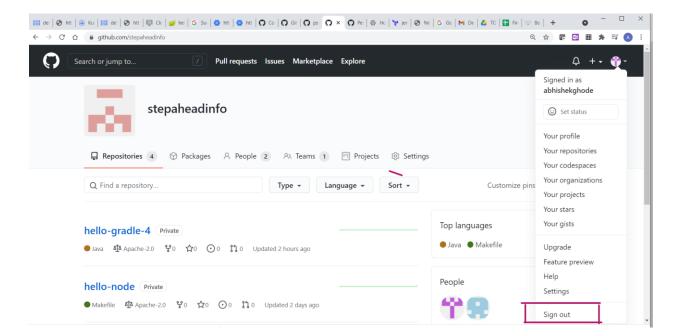
For token, type '?'.



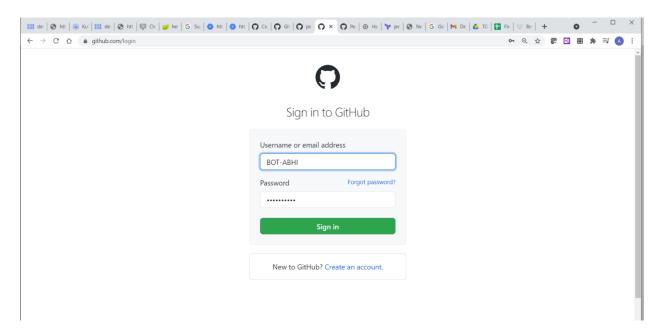
Click on the link generated in a new tab.

Please ensure that you are creating this token for bot user. So, login suing bot user credentials to github.com before generating token.

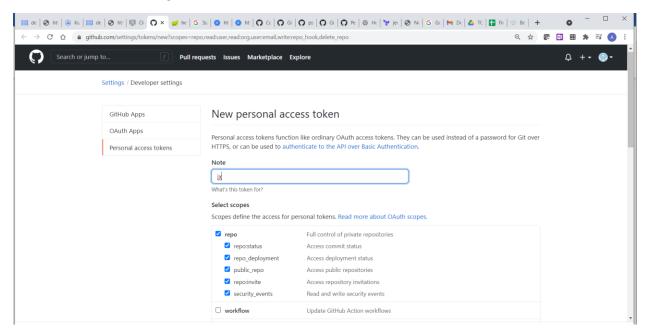


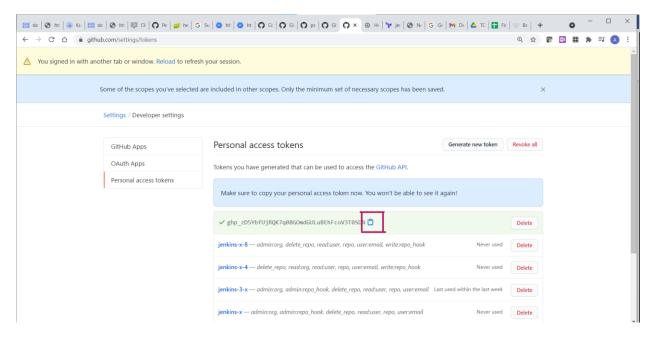


Login using bot user.

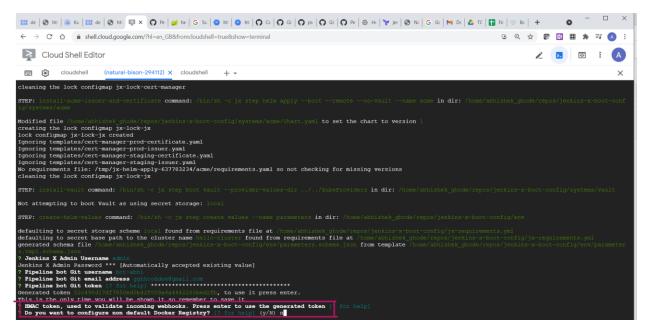


Scroll down and click on "generate token'.

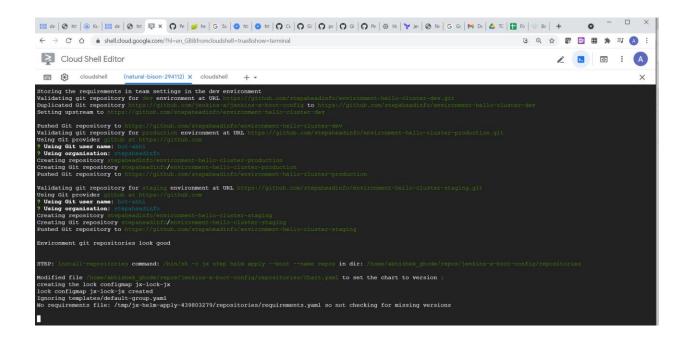




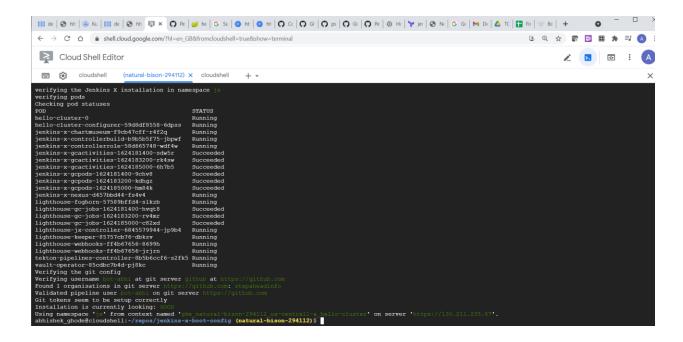
Accept defaults for HMAC token.



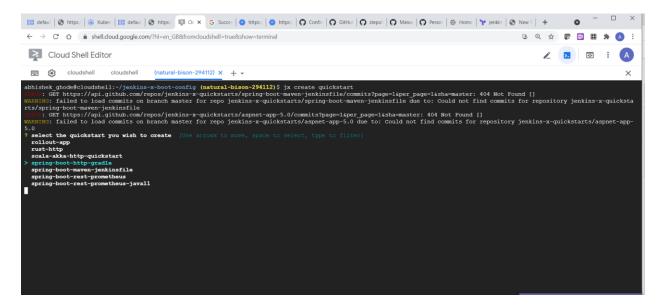
While installation is being done



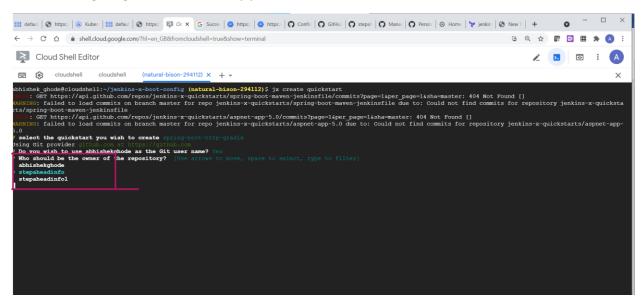
You would see below message once the jx boot completes.



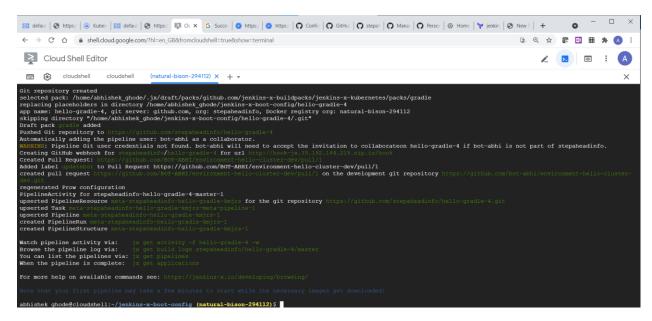
Step 4: Create a quickstart project using 'Spring-boot-http-gradle'. You can also use another template.



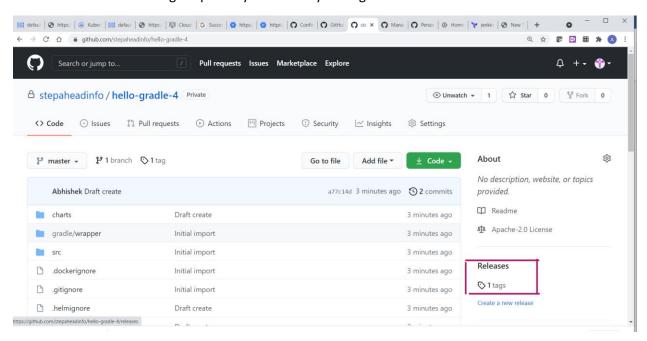
Please select git organization owned by you.



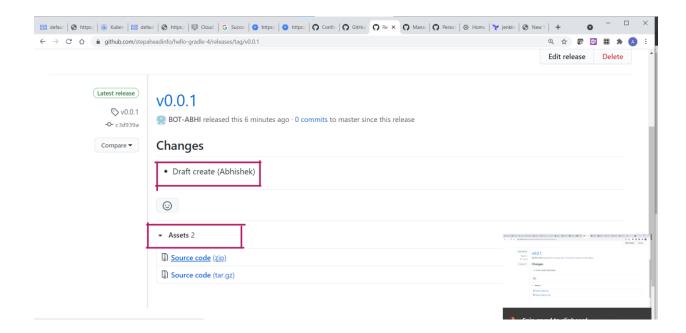
Please accept defaults and continue with the installation.



You would observe a new git repository created in your organization and click on 'Releases'.



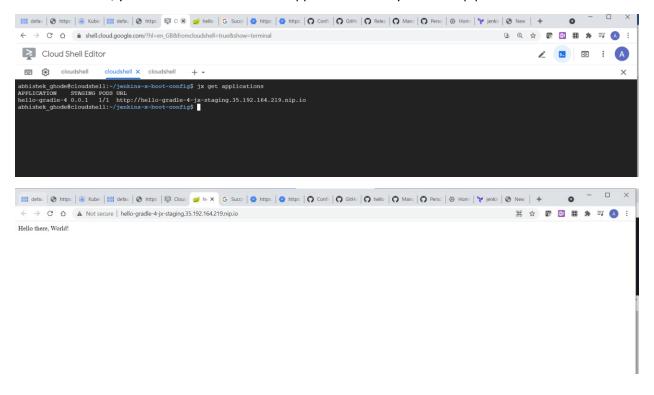
The pipeline should initiate a new commit with message 'draft create'.



On cloud shell, run below command:

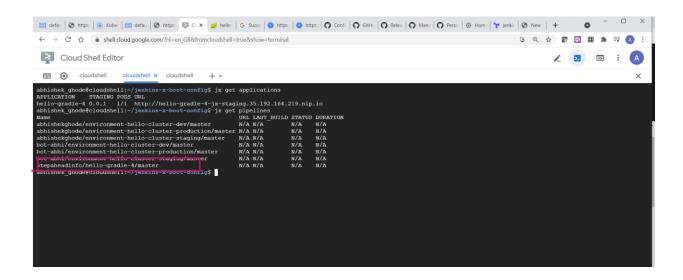
jx get applications

Click on the URL, you would be able to access application built by Jenkins X pipeline.



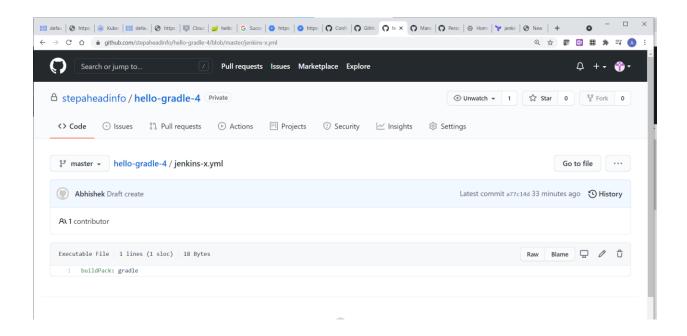
Run below command to access created pipeline:

jx get pipelines

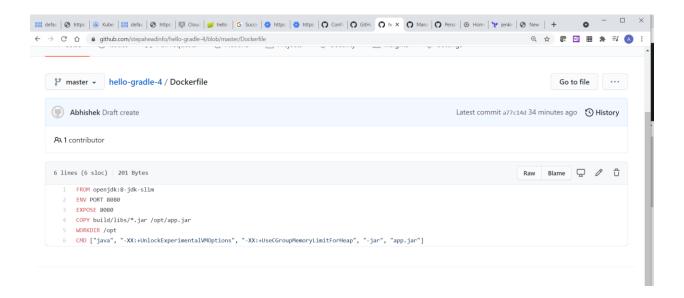


Please check repository created.

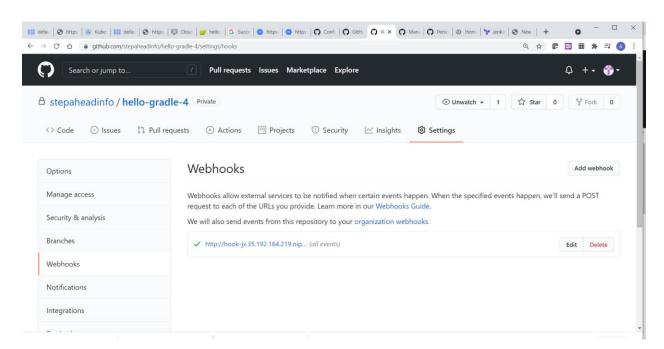
You can check Jenkins-x.yml file for a line where we mentioned gradle as build tool.



Dockefile is also generated for you.



You can also check webhook.



You can also observe pipeline execution using below command:

Jx get activity -f <pipeline-name> -w

