Types of jobs configured

Free style jobs:

Simple job:

New job -> Free style job

Build options

Poll SCM Jobs:

SCM

Git –

Give Repository url on which you want to work on

<https://github.com/kajamohiddin359/samplejavaprojectdemo.git>

add credentials of GitHub Remote URL to connect from Jenkins

Clue: Manage Jenkins -> Manage Credentials -> add credentials of GitHub using username and password

Build Triggers:

POLL SCM

Minute hours day of month month year day of week

Build:

GitHub-webhook jobs:

This job will trigger if we have any commit on the repository we are using in the job

SCM

Git

Give Repository url on which you want to work on

<https://github.com/kajamohiddin359/samplejavaprojectdemo.git>

add credentials of GitHub Remote URL to connect from Jenkins

Clue: Manage Jenkins -> Manage Credentials -> add credentials of GitHub using username and password

Build Triggers:

GitHub hook Trigger for GITScm polling

Before doing this please do add webhook in GitHub in

Repository -> Settings -> webhooks

Payload URL:

<http://jenkins-url/github-webhook/>

content-type:

application/json

Secret:

Generate from settings of the account

Settings -> developers settings -> personal access tokens – Generate New token

Name

Checkin admin:org\_hook, admin:repo\_hook

Generate token

Use this token in above webhook generation

Add this token in Jenkins in credentials

Clue: Manage Jenkins -> Manage Credentials -> add credentials of webhook using secret text

Some issues may occur:

Issue : We couldn’t deliver this payload: failed to connect

Occurrence: when adding webhook in the Github remote

Root cause: if the Jenkins server is running on the local machine and it is not public to internet

Resolution: Need to resolve that local url to public url so that GitHub can access

Solution provider: ngrok

I have installed Jenkins on Centos7 Linux server hosted on virtual box vm. Therefore I have downloaded and unzip ngrok and performed few steps to make url public

Steps are below:

Download ngrok.zip on linux server

wget <https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.zip>

unzip ngrok-stable-linux-amd64.zip

if you don’t have unzip api then download that too

yum install –y unzip

./ngrok authtoken <authentication token>

You will get your token if you login to <https://dashboard.ngrok.com/> which is free

./ngrok http 8080

As we are listening to 8080 port

We will get url that listen from public internet please update that in payload url with github-webhook

<http://public-url/github-webhook/>

we can add this to Github server in configuration settings in Jenkins

Manage Jenkins -> Configure settings ->

Change Jenkins url :

With new public address created from the above process

Add GitHub server details with credentials as secret text provided from GitHub remote

Get Public url from there if required.

If all goes good, you are able to see jobs triggered automatically when there is commit to that repository