## **GitHub weebhooks Integrate with Jenkins**

If you want automate trigger the build jobs when the new commit push to github. In this particular scenario we will use three types of process to trigger a job in jenkins.

- Build periodically.
- Poll SCM
- web hooks.

In this tutorial we will learn how to integrate github webooks into jenkins. In this scenario when the new changes pushed to girhub the jenkins job will be trigger automatically for particular jenkins job configure of the github repository.

#### prerequisites:

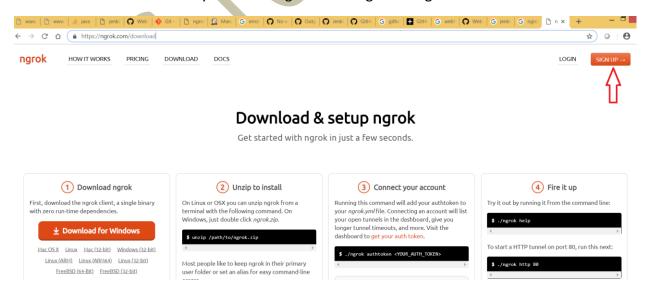
- jenkins should run in your machine.
- git hub account.
- git hub repository.

if you jenkins is running jenkins in your local machine like (localhost:8080) .you ip shoud be configure as a public ip or DNS or else you jenkins server could not connect with the github.

for this you can make it you localhost to pulic domain trough NGROK. download ngrok into your machine run ngrok.exe file with your localhost and port.

### https://ngrok.com/download

once downloaded successfully we need register with ngrok using below link.



once signup successfully you will get a token along with running setp.

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open the folder where you unzip the ngrok.exe. run below command.

> ngrok.exe authtoken < YOUR AUTH TOKEN>

if linux

./ngrok authtoken <YOUR AUTH TOKEN>

it will give result like below.

```
Authtoken saved to configuration file: C:\Users\ssreteam/.ngrok2/ngrok.yml
```

Now run the http and port number along with ngrok command like below.

> ngrok.exe http 80

if linux

./ngrok http 80

this will give output like below.

```
C:\Windows\System32\cmd.exe - ngrok.exe http 8080
ngrok by @inconshreveable
                                                                  (Ctrl+C to quit)
ession Status
                               online
                               ybmadhu (Plan: Free)
Account
Uersion
Region
                              United States (us)
                              http://127.0.0.1:4040
Web Interface
orwarding
                              http://13057325.ngrok.io -> localhost:8080
orwarding
                              https://13057325.ngrok.io -> localhost:8080
Connections
                                                                p50
                               tt1
                                                       rt5
                                       opn
                                               rt1
                                                                        p90
                                       0
                               0
                                               0.00
                                                        0.00
                                                                0.00
                                                                        0.00
```

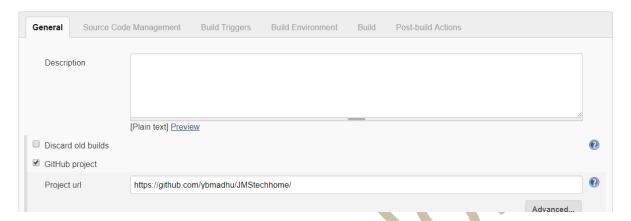
if you to stop or quite press ctrl+c.

here **http://13057325.ngrok.io** this is out public domain of your system we need to configure this your in github weebhooks.

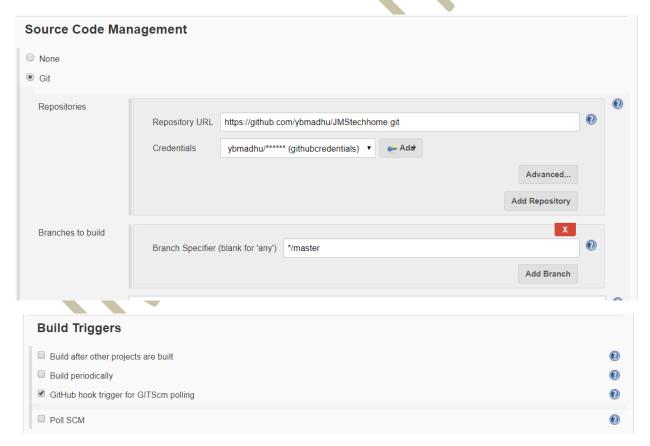
Now our Public DNS is ready lets move into the jenkins configuration.

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goto jenkins home page select which project need to be trigger with hooks.open the project -->goto configure --> goto general section select github project enter the github project url without .git extention --> goto build trigger section select a check box **GitHub hook trigger for GITScm polling.** 



if not configure earlier github and jenkins do it in scm section select and git and enter url of github repository and credentials of your github.



then apply and save the changes.

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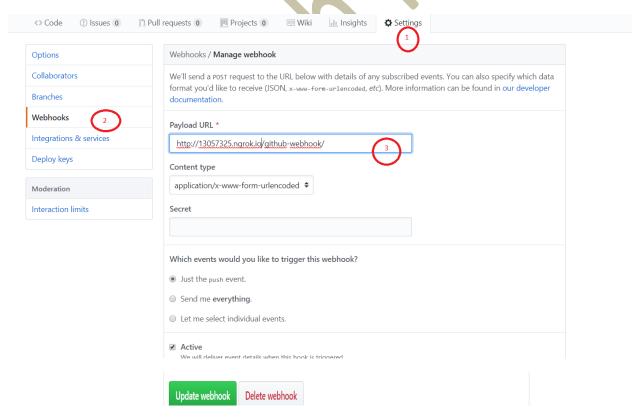
Now we need to modify the configure global security to allow CSRF.

Goto manage jenkins --> configure global security --> CSRF Protection --> deselect the **Prevent Cross Site Request Forgery exploits.** 

	Agent protocols
CSRF Protection	
Prevent Cross Site Requ	est Forgery exploits
CLI	

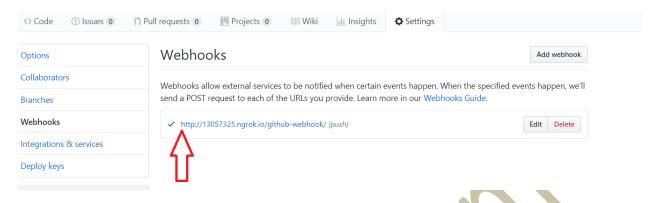
Now goto github account and select repository which we are going to build with webhooks. goto settings --> select webhooks --> enter thepayload url we just created with ngrok. and update the webhook.

http://<jenkinsurl>/ github-webhook/

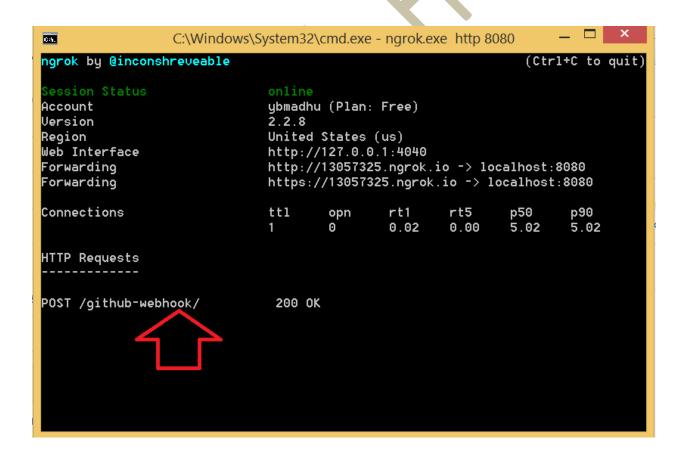


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Now click webhook we can see the green tick markit indicates you webhook successfully registered.



Now change something to in your repository using git bash or github and commit the code lets see the trigger is build automatically in jenkins or not and check ngrok console output as well.



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Done we are successfully configure the jenkis and github webhooks for automation the trigger a build.

