Home Work Summary

Integration of git ,jenkins and docker to deploy website on server automatically.

JOB1

If Developer push to dev branch then Jenkins will fetch from dev and deploy on testing environment.

JOB#2

If Developer push to master branch then Jenkins will fetch from master and deploy on prod_env environment.

JOB#3

Manually the QA team will check (test) for the website running in dev-docker environment. If it is running fine then Jenkins will merge the dev branch to master branch and trigger #job 2

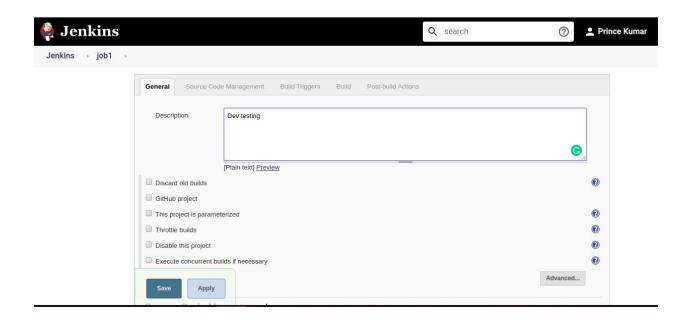
Prerequisite:

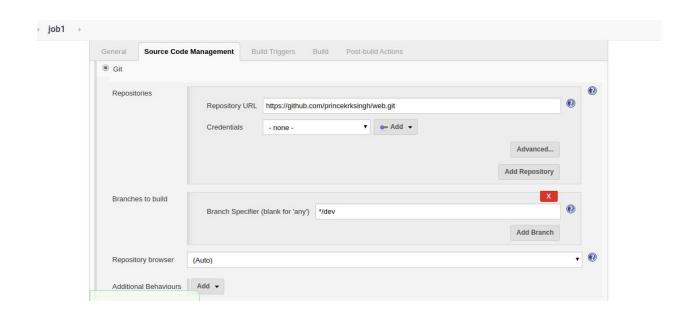
Install docker, jenkin and git.

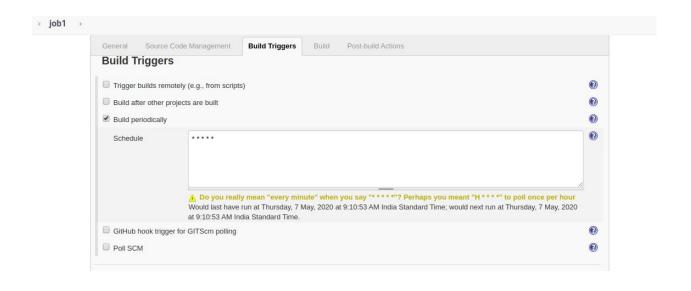
Stop firewall

<u>JOB1</u>

Created job1 as follows:









Docker container testing env

```
(base) prince@prince-Inspiron-3521:-$ docker ps
CONTAINER ID
                    IMAGE
                                         COMMAND
                                                              CREATED
STATUS
                     PORTS
                                             NAMES
41c833d56f81
                    httpd
                                         "httpd-foreground"
                                                              4 minutes ago
                    0.0.0.0:8081->80/<u>t</u>cp
Up 4 minutes
                                            testing
(base) prince@prince-Inspiron-3521:~$
```

Jenkins console output

+ sudo docker ps
+ grep testing
41c833d56f81 httpd "httpd-foreground" 4 minutes ago
testing
+ echo already running
already running
+ sudo cp -r -v -f README.md index.html /test_env/
'README.md' -> '/test_env/README.md'
'index.html' -> '/test_env/index.html'

Exposed site



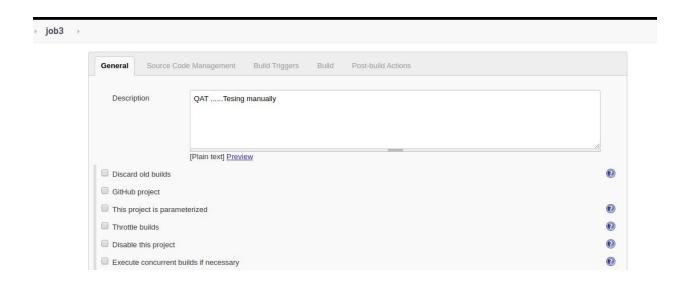
New Registration

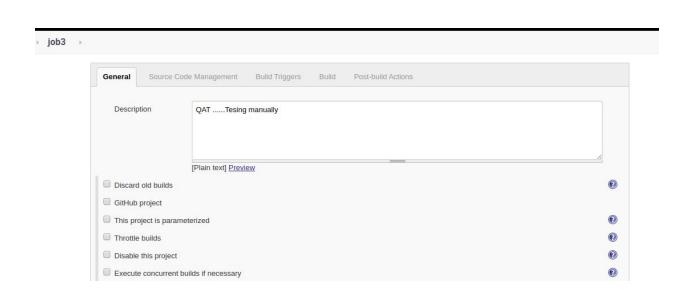
Fill the details to Sign up

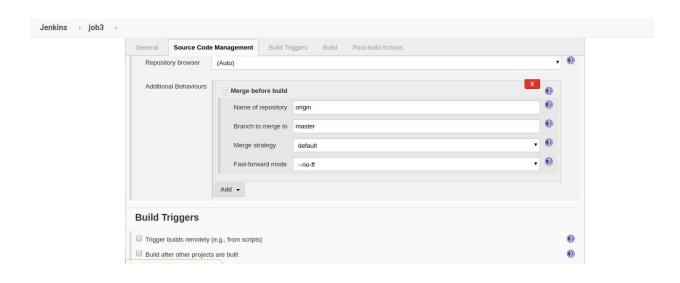
Full Name	
Enter Full Name	
Email	
Enter Email address	
Mobile No.	
Enter mobile No.	
Address	
Enter Address	
College Name	
Enter College Name	
Gender	
Male ▼	

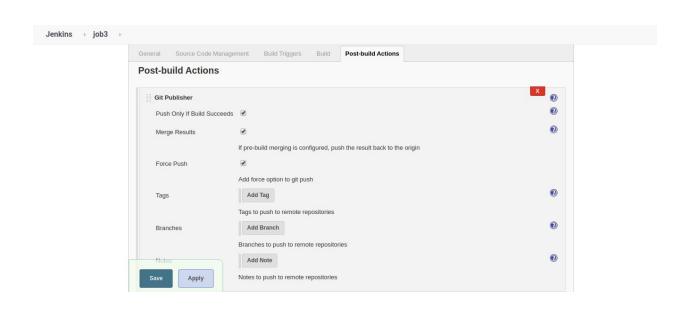
Job3

Created as follows:

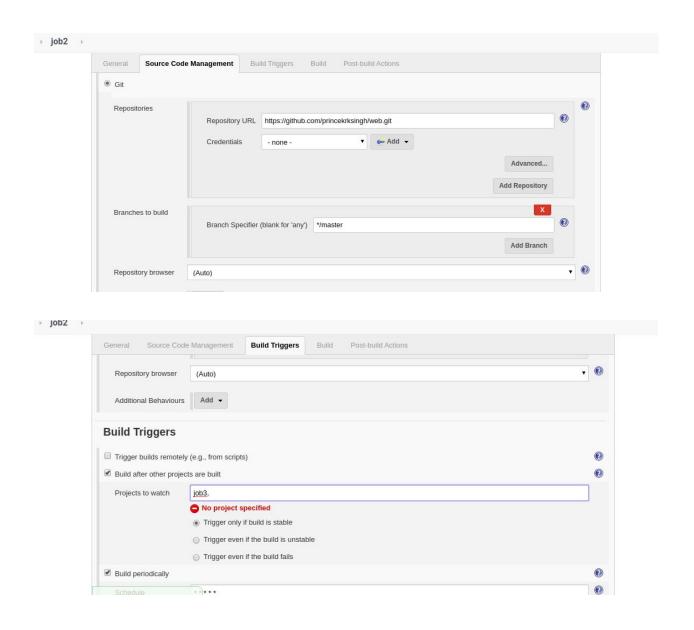


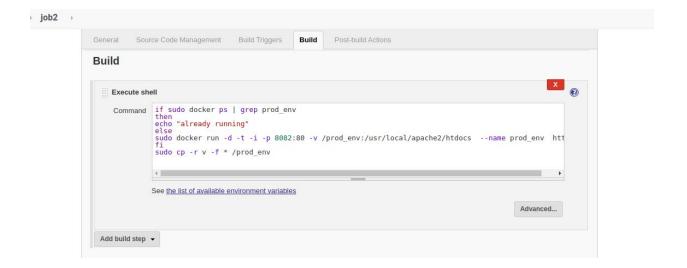






Job 2 trigger by job3 if job 3 is succefully build and tested by QAT





Conclusion: Merged and deployed on production env