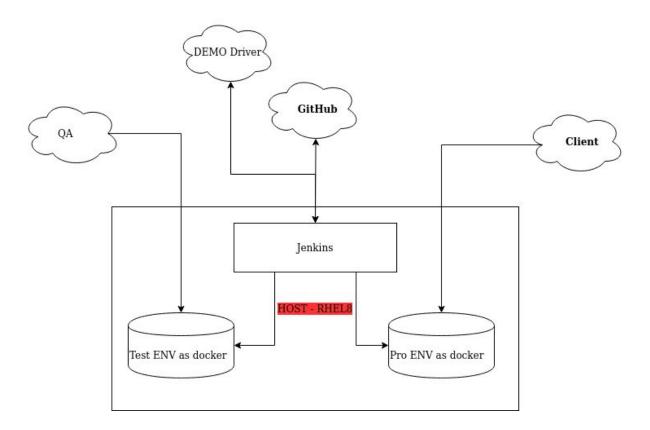
GITkens

The Idea of GITkens is to create a playground to demonstrate the power of the Integration of GIT and Jenkins.

As a first step, I created a web server demo for illustration.

Infrastructure:



TOOLS:

- GitHUb
- Jenkins
- RHEL8
- Docker

How It Works:

The Demo Driver mentioned above is you. Yes you are going to create a branch, check-in the code, deploy the code to test and finally deploy it to production with only to curl commands. Yes you read it, write with only two curl commands.

Yes now let's explain how these two curl commands deploy all the steps.

Phase 1) Develop and Deploy code to Test Environment

Execute the command, curl -I -u <Jenkins-Username>:<Jenkins-Password>
 http://3ba39d2e.ngrok.io/job/remote-trigger-test/buildWithParameters?token=redhat\&BRANCH=
 YourName> (Please don't forget to fill the name)

\$ curl I -u <Jenkins-Username>:<Jenkins-Password>

http://3ba39d2e.ngrok.io/job/remote-trigger-test/buildWithParameters?token=redhat\&BRA NCH=kalai

HTTP/1.1 201 Created

Date: Thu, 07 May 2020 08:54:37 GMT

X-Content-Type-Options: nosniff

Location: http://192.168.1.7:8080/queue/item/89/

Content-Length: 0

Server: Jetty(9.4.27.v20200227)

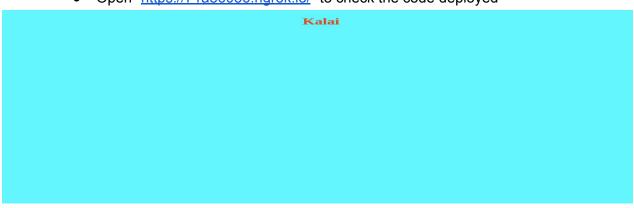
• This Curl command triggers the JOB1 in the jenkins, which will take input as your name and create a branch in github in your name and edit the index.html and fill your name on it.

```
0
Execute shell
Command
              git branch
              echo "Creating the branch for feature commit..." git checkout -B \$BRANCH
              cat << EOF > index.html
               <!DOCTYPE html>
              <html>
              <ntml>
<style>
h1 {text-align: center;}
p {text-align: center;}
</style>
<body style="background-color:aqua;">
<h1 style="color:red">$BRANCH</h1>
</body>
              </body>
              </html>
              git add index.html
              git commit -m "Added $BRANCH in index.html"
                                                                github.com/lkalaivanan/GITkens.git $BRANCH
              git push https://
              echo "BRANCH=$BRANCH" > .branch
```

 After successful completion of JOB1, it will trigger a JOB2 which will deploy the code to the Test environment



• Open "https://71a86056.ngrok.io/" to check the code deployed



 Once you are happy with the page run command "curl -I -u <Jenkins-Username>:<Jenkins-Password>
 http://3ba39d2e.ngrok.io/job/Deploy-Prod/buildWithParameters?token=deploy
 \&TEST_BRANCH=<YourName>" to deploy the same on the production env

\$ curl -I -u <Jenkins-Username>:<Jenkins-Password>

http://3ba39d2e.ngrok.io/job/Deploy-Prod/buildWithParameters?token=deploy\&TEST_BR ANCH=kalai

HTTP/1.1 201 Created

Date: Thu, 07 May 2020 09:12:20 GMT

X-Content-Type-Options: nosniff

Location: http://3ba39d2e.ngrok.io/queue/item/97/

Content-Length: 0

Server: Jetty(9.4.27.v20200227)

• The above mentioned curl command will trigger a JOB3) which will consider your input as a Tested Branch and merge the branch with master.



- After Merging it will deploy the code on the production environment
- Open "https://a4aa61c0.ngrok.io/" to verify

