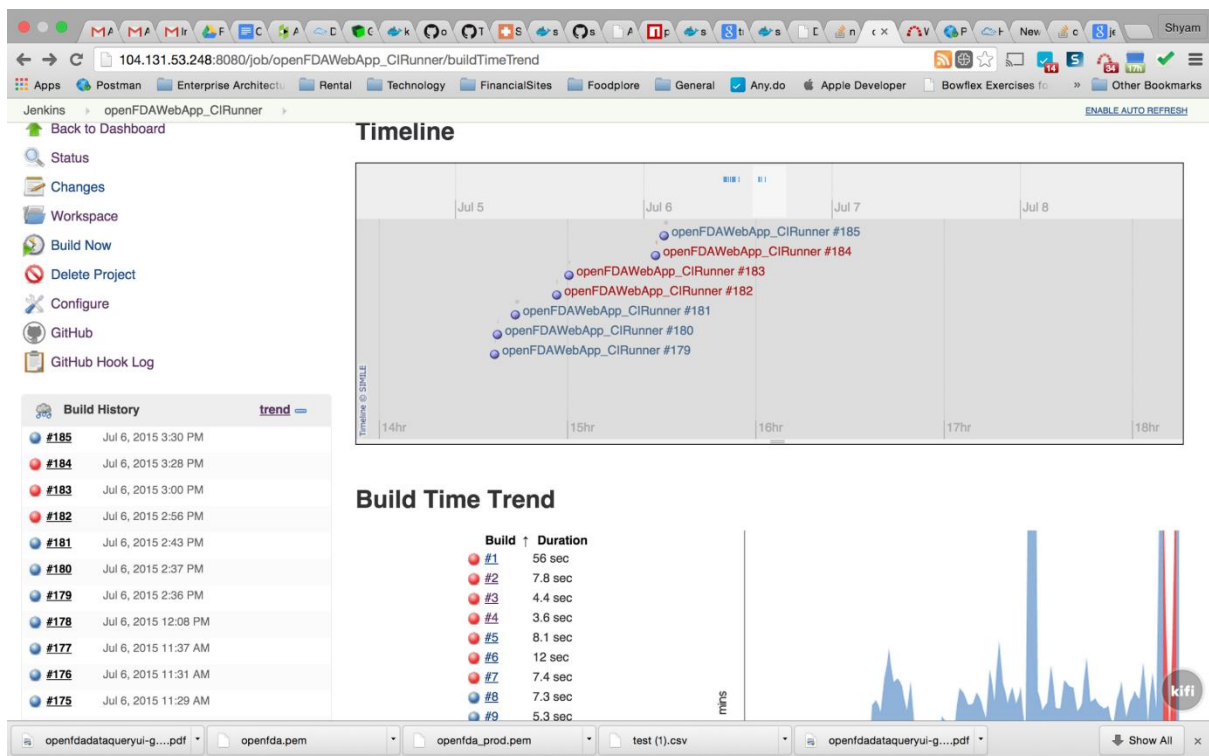


# Continuous Integration and Continuous Deployment

## Continuous Integration

During the first sprint we created the Continuous Integration server using Jenkins CI, the leading open source CI Server. We hosted this server in DigitalOcean (IaaS). Here is a link to [openFDA-CI-Server](#).

We used the Github plugin of Jenkins and the Webhook component of Github to automate the build whenever the Github repo receives new changes.



During the build process, Jenkins invokes the test script. If the test fails, the whole build fails, and Jenkins reports it to the Technical Architect.

## Continuous Deployment

After the successful run of the test script, the Jenkins CI server runs the script on the deployment server:

#### Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts)
- ☐ Build after other projects are built
- ☐ Build periodically
- ☒ Build when a change is pushed to GitHub
- ☐ Poll SCM



#### Build

##### Execute shell



Command

```
npm install
./script/test
./script/deploy
```

This deploy script runs the following script:

```
#!/bin/sh
```

```
ssh app@104.236.11.72 <<EOF
rm -Rf openFDAWebApp
forever stopall
git clone https://github.com/shyamrock/openFDAWebApp.git
cd ~/openFDAWebApp
npm install --production
grunt build
forever start app.js
exit
EOF
```

The deployment server is set up to accept the ssh inbound from the Jenkins CI Server to accommodate this.

**Jenkins CI is used as the backbone centerpiece for Continuous Integration and Continuous Deployment.**