

a. install gitlab runner & register the same

Project -> settings -> CI/CD -> Runners -> Specific Runners

Ref: <https://docs.gitlab.com/runner/install/linux-manually.html> or  
<https://docs.gitlab.com/runner/install/linux-repository.html>

b. protected branch Project -> settings -> Repository ->

c. maintainer access, add deploy key (ssh rsa public key from machine)

Project -> settings -> Repository -> deploy key

[https://docs.gitlab.com/ee/ci/ssh\\_keys/index.html](https://docs.gitlab.com/ee/ci/ssh_keys/index.html)

<https://docs.gitlab.com/ee/ssh/index.html#generate-an-ssh-key-pair>

Add to EC2 ~/.ssh/authorized\_keys (public key) and add the same to gitlab SSH keys in profile settings / preferences to connect to gitlab.

Add generated private\_key to ssh\_agent

eval \$(ssh-agent)

ssh-add ~/.ssh/id\_rsa

ssh -T [git@gitlab.com](mailto:git@gitlab.com)

d. sudo gitlab-runner register

register: <https://docs.gitlab.com/runner/register/index.html>

repo domain, token, tags- **add branch or tags**, runner name, executor - docker,

docker image ruby:2.6

f. sudo gitlab-runner start

g. check the new runner with green clr sts in repo settings ..

i. create CI/CD config file & add relevant cmds \*

h. add env variables by referring below \*\*

j. Install docker - <https://docs.docker.com/engine/install/ubuntu/> (to be used by runner to execute the pipeline) and disable shared runners for free gitlab account.

\* .gitlab-ci.yml

### **web - react build**

1. SSH connection

2. dir (repo) navigation

3. git stash, checkout & pull

4. npm i

5. build script

### **Server - node pm2**

1- 4 above

5. pm2 restart \* / pm2 eco file

\*\* env variables - CI\_BRANCH, CI=false in start or build script (frontend), DEPLOY\_SERVER - ip or domain, REPO\_DIR\_PATH - absolute path, SSH\_PRIVATE\_KEY (ssh rsa key which is added to ec2 ssh/ authorized\_keys)

executor should be made available manually:        n=\$(which node);n=\${n%/bin/node}; chmod  
-R 755 \$n/bin/\*; sudo cp -r \$n/{bin,lib,share} /usr/local;