Personal Blog Setup and Self-host using Hugo and Github Actions. 1

- 1. Irrespective of OS or propretairy software users, To cut short and jump stright in to the IDE.
- 2. For that, we will use Gitpod. few lines about Gitpod- all can use free tier and no credit card required.
- 3. check if git installed on the gitpod and rutn the below commands on the terminal

echo "# fosschennai_June2023" >> README.md git init git add README.md git commit -m "first commit" git branch -M main git remote add origin <u>https://github.com/Sakh1l/fosschennai_June2023.git</u> git push -u origin main

- 4. Now, on the Readme file, add some text and commit the changes. once done, you can able to view the changes in the repository.
- create the site with hugo command hugo new site my_blog move inside the folder my_blog and git clone git clone <u>https://github.com/vaga/hugo-theme-m10c.git</u> themes/m10c
- 6. and edit config.yml file with theme: "m10c"
- 7. Now run the hugo server to check the page in localhost
- 8. add "gh-pages" brach for the github actions
- 9. move to settings and under "Actions " tab on the left side select "general" tab and select "read and write permisson" and save the settings.

Github Actions CI/CD

git submodule add --depth=1 <u>https://github.com/vaga/hugo-theme-m10c.git</u> themes/m10c echo "# Test Read" >> README.md git add README.md git commit -m "first commit" git branch -M main sudo nano config.yml git remote add origin <u>https://github.com/Sakh1l/fosschennai_June2023</u> git push -u origin main mkdir -p .github/workflows sudo nano .github/workflows/deploy.yml git commit -m "add the first test page" git push

CI/CD work flow config

Create a repository on Github, create a readme file, add the remote address, and push your first commit

Manually Add the gh-pages Branch

 Manually add the gh-pages branch to the repository; otherwise the github actions will throw an error

Allow Read and Write Permissions on the Workflow

 Allow read and write permissions under Settings > Actions > General > Workflow permissions

Add a .github/workflows/deploy.yml file under the project root directory

```
name: Publish to GH Pages
on:
 push:
   branches:
      - main
 pull_request:
jobs:
 deploy:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout source
        uses: actions/checkout@v3
        with:
          submodules: true
      - name: Checkout destination
        uses: actions/checkout@v3
        if: github.ref == 'refs/heads/main'
        with:
          ref: gh-pages
```

```
path: built-site
     - name: Setup Hugo
       run:
         curl -L -o /tmp/hugo.tar.gz
'https://github.com/gohugoio/hugo/releases/download/v0.110.0/hugo_extended_0
.110.0_linux-amd64.tar.gz'
         tar -C ${RUNNER_TEMP} -zxvf /tmp/hugo.tar.gz hugo
     - name: Build
       run: ${RUNNER_TEMP}/hugo
     - name: Deploy
       if: github.ref == 'refs/heads/main'
       run:
         cp -R public/* ${GITHUB_WORKSPACE}/built-site/
         cd ${GITHUB_WORKSPACE}/built-site
         git add .
         git config user.name 'githubusername'
         git config user.email 'youremailid@gmail.com'
         git commit -m 'Updated site'
         git push
```

- The first step checks out my repository under \$GITHUB_WORKSPACE and submodules:true ensures that our submodule for the theme repository is fetched as well
- The second step allows us to reference the gh-pages branch via the \$GITHUB_WORKSPACE/built-site directory, where our static sites will be stored in (Refer to the Deploy step)
- The third and fourth steps involve installing hugo and building the static pages in the public directory with the hugo command
- The last step copies the static sites into \${GITHUB_WORKSPACE}/built-site and pushes the changes to the referenced branch gh-pages, which is a special branch that Github recognizes and uses to publish to your Github Pages site

Note: the content will be deployed to https://susernames.github.io/susernames.github.io/susernames/

Link Custom Domain to Github Pages

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 Add your custom domain under your Git repository's Settings > Pages > Custom Domain as shown in the image above.

Note: the DNS check will initially be unsuccessful

baseurl: "http://sakhil.in"

• Update the baseurl in config.yml with your domain. Please note that the HTTPS is enforced through Github Pages

Once the commit for the baseurl change is pushed, the Github Action will run the deploy job and you should be able to access the site via your custom domain. It might take some time for your DNS provider to update your domain and the newly-created records to take effect.