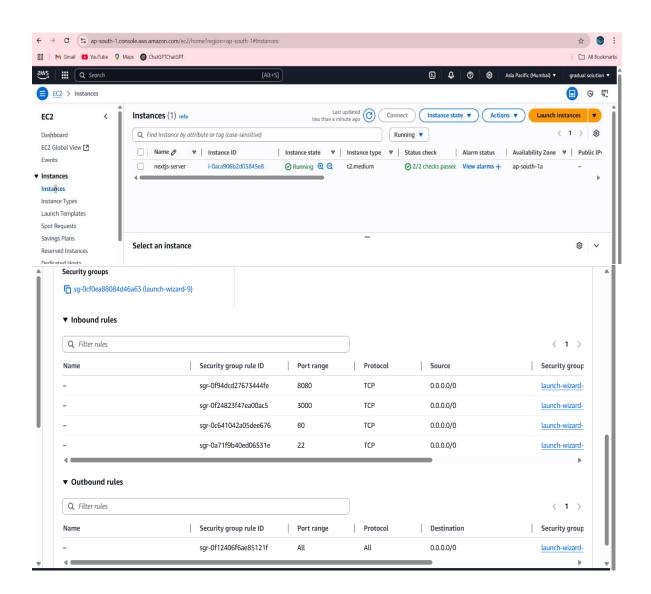
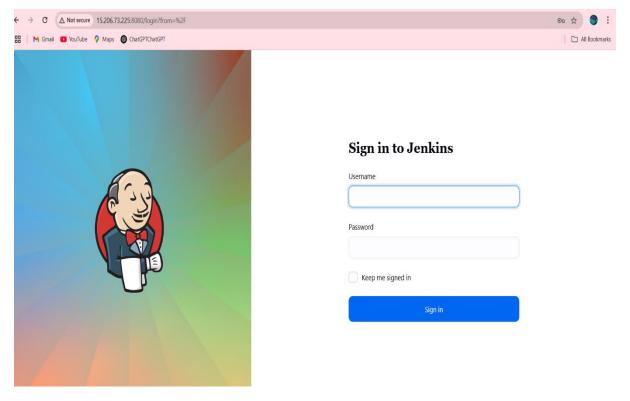
## Next.js Application create and build process using CI/CD pipeline

## 1. Created EC2 instance



## 2. Install Node.js, npm, jenkins

Last login: Sat Jun 14 05:25:44 2025 from 106.205.170.70 ubuntu@ip-192-168-3-50:~\$ node -v v18.19.1 ubuntu@ip-192-168-3-50:~\$ npm -v 9.2.0



#### 3. Created basic Next. is application locally

```
ubuntu@ip-192-168-3-50:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword 3a0662f5c99b4635b30e02ce8d556313
Initializing project with template: app-tw
Installing dependencies:
- react
- react-dom
Installing devDependencies:
 - @types/react
 - @types/react-dom
- @tailwindcss/postcss
  tailwindcss
added 68 packages, and audited 69 packages in 20s
14 packages are looking for funding
run 'npm fund' for details
found 0 vulnerabilities
          Created nextjs-ec2-app at /home/ubuntu/nextjs-ec2-app
 ubuntu@ip-192-168-3-50:~$
 ubuntu@ip-192-168-3-50:~/nextjs-ec2-app$ sudo mkdir /var/www/nextjs-app
mkdir: cannot create directory '/var/www/nextjs-app': No such file or directory ubuntu@ip-192-168-3-50:~/nextjs-ec2-app$ sudo mkdir -p /var/www/nextjs-app ubuntu@ip-192-168-3-50:~/nextjs-ec2-app$ sudo chown -R ubuntu:ubuntu /var/www/nextjs-app
 ubuntu@ip-192-168-3-50:~/nextjs-ec2-app$
```

```
p next.config.ts package-lock.json postcss.config.mjs tsconfig.json
untu@ip-192-168-3-50:~/nextjs-ec2-app$ npm run build
        nextjs-ec2-app@0.1.0 build
next build
   Attention: Next.js now collects completely anonymous telemetry regarding usage.
This information is used to shape Next.js' roadmap and prioritize features.
You can Learn more, including how to opt-out if you'd not like to participate in this anonymous program, by visiting the following URL:
https://nextjs.org/telemetry
                   Creating an optimized production build ...
Compiled successfully in 9.0s
Linting and checking validity of types
Collecting page data
Generating static pages (5/5)
Collecting build traces
Finalizing page optimization
Route (app) Size | First Load JS | 5.62 kB | 167 kB | 978 kB | 192 kB | 162 kB | 163 kB | 164 kB | 165 kB | 165
                   (Static) prerendered as static content
```

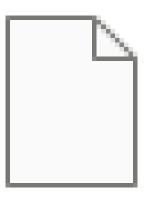
#### 4. Push code to GitHub

**5.** <u>Configure Jenkins:</u> install plugins: - git, node, pipeline: - then create a new job

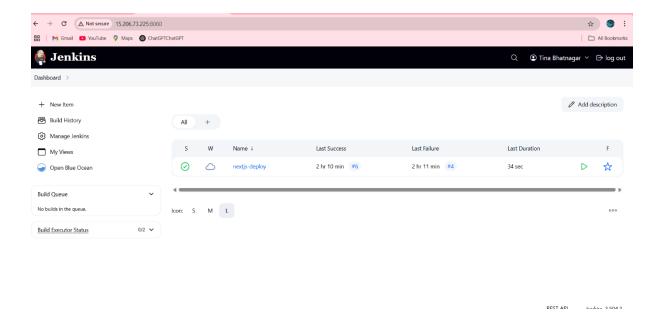
```
Script ?
   1 > pipeline {
           agent any
   3
           environment {
   5
              APP_DIR = '/var/lib/jenkins/workspace/nextjs-deploy'
   6
   8 >
           stages {
   9 ٧
              stage('Clone Repository') {
  10 >
                       git branch: 'main', url: 'https://github.com/tinabhatnagar27/nextjs-ec2-app.git'
  11
  12
                   }
              }
   13
  14
              stage('Install Dependencies') {
  15 >
```

✓ Use Groovy Sandbox ?

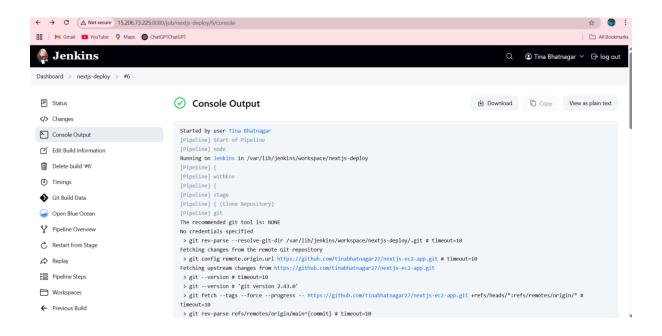
```
Script ?
  15 ×
              stage('Install Dependencies') {
  16 >
                  steps {
                      sh '''
  17
                      cd $APP_DIR
  18
                      npm install
  19
  20
  21
                  }
  22
              }
  23
  24 >
              stage('Build App') {
  25 >
                  steps {
                      sh '''
  26
  27
                      cd $APP_DIR
  28
                      npm run build
  29
✓ Use Groovy Sandbox ?
```

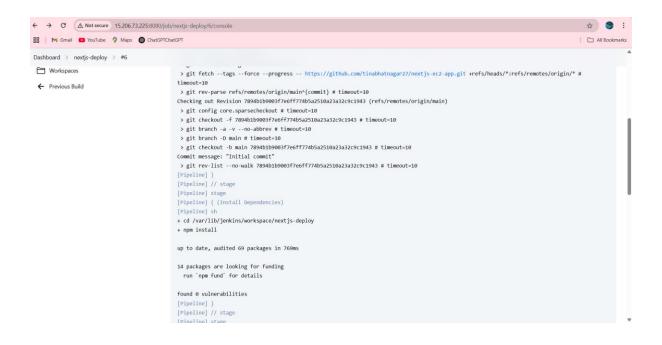


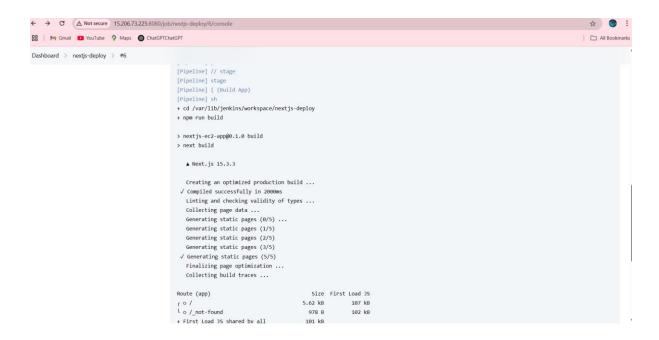
jenkins.file

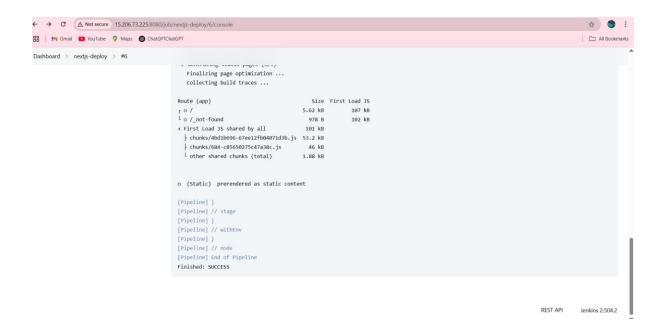


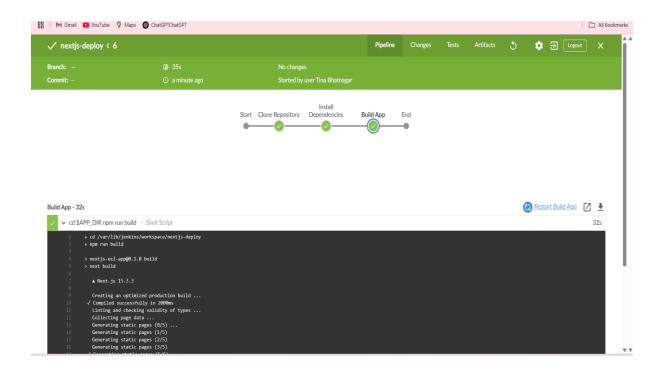
### 6. Next.js build successfully











# 7. After successful Jenkins build: then open browser access public key with port

