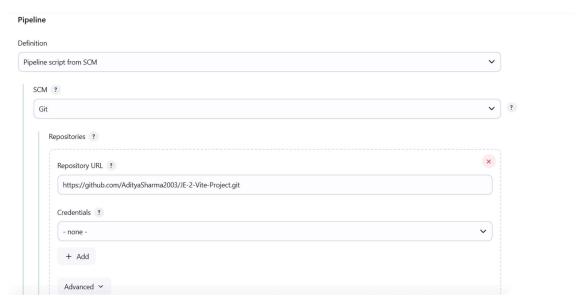
Exercise 4: Pipeline Job - End-to-End CI/CD for a React Application

- 1. Objective: Implement a CI/CD pipeline for a React web application.
- 2. Steps:
 - a. Create a Pipeline Job.
 - b. Write a Jenkinsfile to:
 - Clone the React project from GitHub.
 - Install dependencies (npm install).
 - Run tests (npm test).
 - Build the project (npm run build).
 - Deploy the application by copying the build folder to a deployment directory.
 - c. Add stages for:
 - Linting using ESLint.
 - Post-deployment testing using curl to verify the app is running.
- 2. Task: Run the pipeline and validate each stage's output.

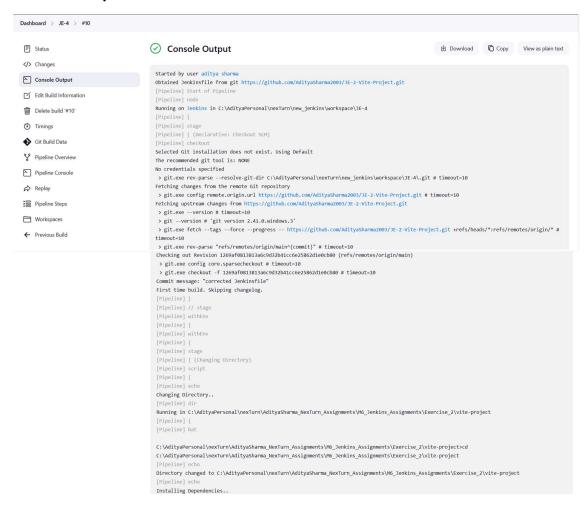
Configurations

Pipeline:





Console Output:



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     added 355 packages, and audited 356 packages in 5s
  124 packages are looking for funding run 'npm fund' for details
     found 0 vulnerabilities
   Running Tests..
   [Pipeline] bat
  C:\AdityaPersonal\nexTurn\AdityaSharma_NexTurn_Assignments\M6_Jenkins_Assignments\Exercise_2\vite-project>npm test
  > vite-project@0.0.0 test
   > vitest
   2[1m2[7m2[36m RUN 2[39m2[27m2[22m 2[36mv3.0.0
   @[39m@[90mC:/AdityaPersonal/nexTurn/AdityaSharma_NexTurn_Assignments/M6_Jenkins_Assignments/Exercise_2/vite-project@[39m
      @[32m@@[39m src/App.test.jsx @[2m(@[22m@[2m1 test@[22m@[2m)@[22m@[90m 84@[2mms@[22m@[39m
  @[2m Test Files @[22m @[1m@[32m1 passed@[39m@[22m@[90m (1)@[39m
@[2m Tests @[22m @[1m@[32m1 passed@[39m@[22m@[90m (1)@[39m

        @[2m]
        Tests @[2m]@[1m@[32m1 passed@[39m@[22m@[90m](1)@[39m]

        @[2m]
        Start at @[2m] 18:53:16

        @[2m]
        Duration @[22m] 1.34s@[2m] (transform 45ms, setup 0ms, collect 391ms, tests 84ms, environment 504ms, prepare 119ms)@[22m]

  ⊞[ ?25h
  [Pipeline] ecno
Building the project..
  C: \label{lem:condition} C: \label{lem:condition} C: \label{lem:condition} Adity a Sharma\_NexTurn\_Assignments \label{lem:condition} Me\_Jenkins\_Assignments \label{lem:condition} Exercise\_2 \mbox{$v$ite-project>npm} \mbox{ run build } Sharma\_NexTurn\_Assignments \mbox{$v$ite-project>npm} \mbox{$v$ite-pro
  > vite-project@0.0.0 build
> vite build
  □[36mvite v6.0.7 □[32mbuilding for production...□[36m□[39m
  transforming...
  ⊞[32m⊞⊞[39m 30 modules transformed.
  rendering chunks...
   computing gzip size..
 ⊞[32m⊞ built in 645ms⊞[39m
  Building the project..
  C:\AdityaPersonal\nexTurn\AdityaSharma_NexTurn_Assignments\M6_Jenkins_Assignments\Exercise_2\vite-project>npm run build
> vite-project@0.0.0 build
> vite build
```

```
⊞[36mvite v6.0.7 ⊞[32mbuilding for production...⊞[36m⊞[39m
 transforming...

[32mm2[39m 30 modules transformed.
 rendering chunks...
computing gzip size...

□[32m□ built in 640ms□[39m

 Deploying the application by copying the build folder to a deployment directory...
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 5 File(s) copied
 [Pipeline] }
[Pipeline] // dir
 [Pipeline] }
[Pipeline] // script
   [Pineline].
 [Pipeline] }
[Pipeline] // dir
 [Pipeline] }
[Pipeline] // stage
 [Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
   This will always run after the pipeline finishes.
   This will run if the pipeline succeeds.
 [Pipeline] }
[Pipeline] // stage
 [Pipeline] }
[Pipeline] // withEnv
 [Pipeline] }
   [Pipeline] // withEnv
 [Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
 Finished: SUCCESS
```