

Module : 06 Jenkins Exercise

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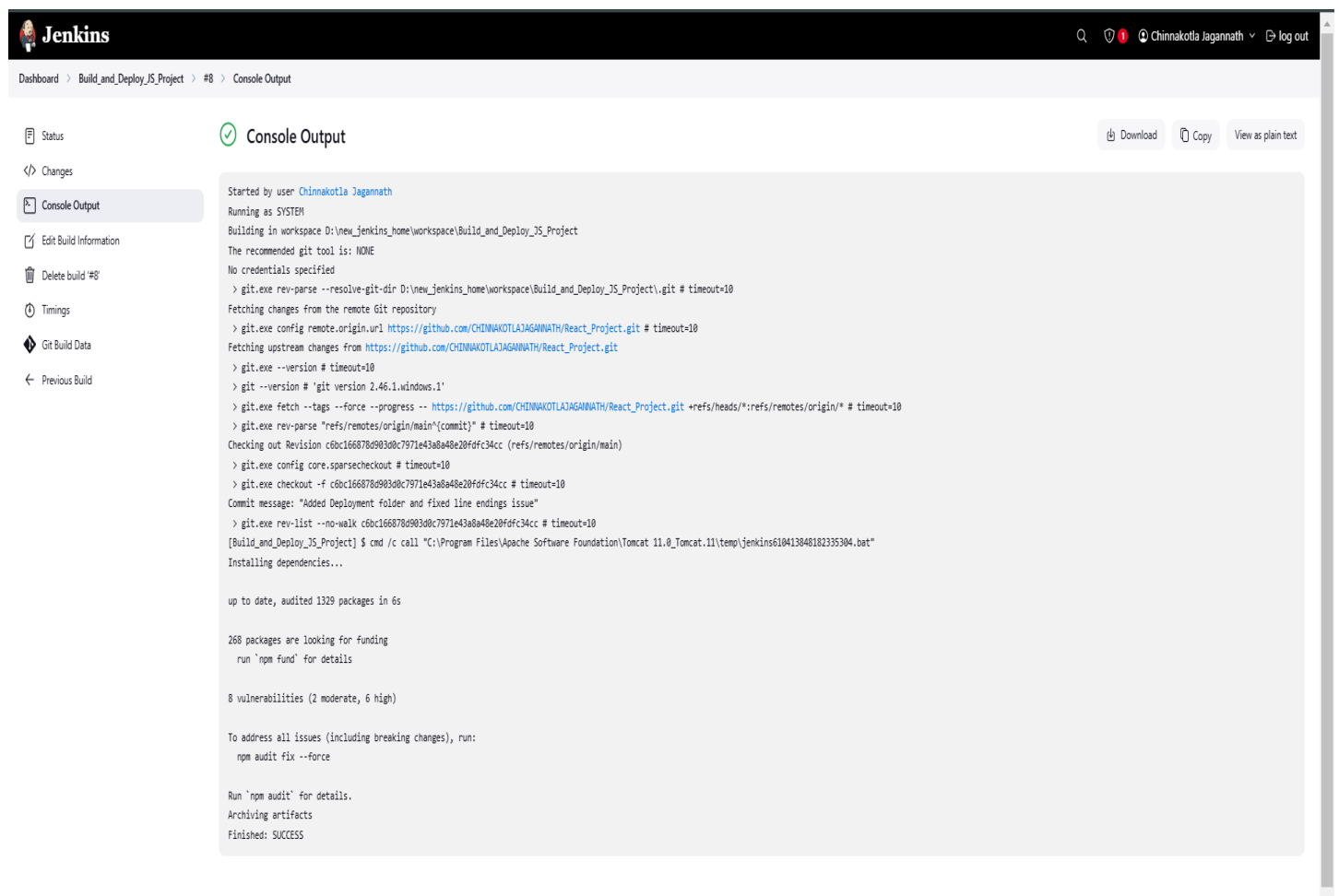
Exercise 2: Freestyle Job - Build and Deploy a JavaScript Project

1. Objective: Build and deploy a JavaScript-based web project.

2. Steps:

- o Create a Freestyle Job.
- o Configure the job to:
 - Clone a JavaScript repository (e.g., a React project) from GitHub.
 - Run npm install to install dependencies.
 - Build the project using npm run build.
 - Copy the build folder to a deployment directory using a Windows batch command or PowerShell.
- o Archive the build artifacts for future reference.

3. Task: Verify the deployment by accessing the web application from the deployment directory.



The screenshot shows the Jenkins web interface. At the top, the Jenkins logo and user information 'Chinnakotla Jagannath' are visible. The breadcrumb navigation indicates the path: Dashboard > Build_and_Deploy_JS_Project > #8 > Console Output. On the left sidebar, the 'Console Output' tab is selected. The main area displays the console output for build #8, which is a Freestyle Job. The output shows the following steps:

- Started by user Chinnakotla Jagannath
- Running as SYSTEM
- Building in workspace D:\new_jenkins_home\workspace\Build_and_Deploy_JS_Project
- The recommended git tool is: NONE
- No credentials specified
- git.exe rev-parse --resolve-git-dir D:\new_jenkins_home\workspace\Build_and_Deploy_JS_Project\.git # timeout=10
- Fetching changes from the remote Git repository
- git.exe config remote.origin.url https://github.com/CHINNAKOTLAJAGANNATH/React_Project.git # timeout=10
- Fetching upstream changes from https://github.com/CHINNAKOTLAJAGANNATH/React_Project.git
- git.exe --version # timeout=10
- git --version # 'git version 2.46.1.windows.1'
- git.exe fetch --tags --force --progress -- https://github.com/CHINNAKOTLAJAGANNATH/React_Project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
- git.exe rev-parse "refs/remotes/origin/main:[commit]" # timeout=10
- Checking out Revision c6bc166878d903d0c7971e43a8a48e20dfc34cc (refs/remotes/origin/main)
- git.exe config core.sparsecheckout # timeout=10
- git.exe checkout -f c6bc166878d903d0c7971e43a8a48e20dfc34cc # timeout=10
- Commit message: "Added Deployment folder and fixed line endings issue"
- git.exe rev-list --no-walk c6bc166878d903d0c7971e43a8a48e20dfc34cc # timeout=10
- [Build_and_Deploy_JS_Project] \$ cmd /c call "C:\Program Files\Apache Software Foundation\Tomcat 11.0\Tomcat.11\temp\jenkins610413848182335304.bat"
- Installing dependencies...
- up to date, audited 1329 packages in 6s
- 268 packages are looking for funding
run 'npm fund' for details
- 8 vulnerabilities (2 moderate, 6 high)
- To address all issues (including breaking changes), run:
npm audit fix --force
- Run 'npm audit' for details.
- Archiving artifacts
- Finished: SUCCESS