

C Jagannath

Module_6 - Jenkins Exercises

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. The top navigation bar includes the Jenkins logo, a search bar, and user information for 'Chinnakotla Jagannath'. The breadcrumb trail is 'Dashboard > JavaScript_Job > #2 > Console Output'. On the left sidebar, the 'Console Output' tab is selected. The main area displays the console output for build #2, 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\JavaScript_Job
- The recommended git tool is: NONE
- No credentials specified
- git.exe rev-parse --resolve-git-dir D:\new_jenkins_home\workspace\JavaScript_Job\.git # timeout=10
- Fetching changes from the remote Git repository
- git.exe config remote.origin.url https://github.com/CHINNAKOTLAJAGANNATH/JavaScript-project.git # timeout=10
- Fetching upstream changes from https://github.com/CHINNAKOTLAJAGANNATH/JavaScript-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/JavaScript-project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
- git.exe rev-parse 'origin/main':(commit) # timeout=10
- Checking out Revision 57a4818edc2721caaf1be6af47a2f0967bae95df (origin/main)
- git.exe config core.sparsecheckout # timeout=10
- git.exe checkout -f 57a4818edc2721caaf1be6af47a2f0967bae95df # timeout=10
- Commit message: "Initial commit"
- First time build. Skipping changelog.
- [JavaScript_Job] \$ cmd /c call "C:\Program Files\Apache Software Foundation\Tomcat 11.0\temp\jenkins15667316030414017623.bat"
- D:\new_jenkins_home\workspace\JavaScript_Job>xcopy /E /I /H /Y "C:\Nextturn\ChinnakotlaJagannath-Nextturn-Programs\VM6_Devops_Assignments\Exercise-2\build" "C:\Nextturn\ChinnakotlaJagannath-Nextturn-Programs\VM6_Devops_Assignments\Exercise-2"
- D:\new_jenkins_home\workspace\JavaScript_Job>dir
- Volume in drive D is New Volume
- Volume Serial Number is C219-ADBA
- Directory of D:\new_jenkins_home\workspace\JavaScript_Job
- 25-01-2025 22:20 <DIR> .
- 25-01-2025 19:57 <DIR> ..
- 25-01-2025 22:20 <DIR> build
- 25-01-2025 22:20 <DIR> node_modules
- 25-01-2025 22:20 672,766 package-lock.json
- 25-01-2025 22:20 479 package.json
- 25-01-2025 22:20 <DIR> public
- 25-01-2025 22:20 25 README.md
- 25-01-2025 22:20 <DIR> src
- 3 File(s) 673,270 bytes
- 6 Dir(s) 157,360,603,136 bytes free
- D:\new_jenkins_home\workspace\JavaScript_Job>exit 0
- Archiving artifacts
- Finished: SUCCESS

At the bottom right of the console output area, there are links for 'Download', 'Copy', and 'View as plain text'. The bottom status bar shows 'REST API' and 'Jenkins 2.479.2'.