

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 main content area is titled 'Console Output' and shows the execution log of a build job. The log starts with 'Started by user Chinnakotla Jagannath' and 'Running as SYSTEM'. It details the cloning of a repository from GitHub, the installation of dependencies, and the building of the project. The build artifacts are listed, including 'asset-manifest.json', 'index.html', 'main.b4096959.css', 'main.b4096959.css.map', 'main.6b95959f.js', and 'main.6b95959f.js.LICENSE.txt'. The log concludes with 'Archiving artifacts' and 'Finished: SUCCESS'. On the left sidebar, various job controls like 'Status', 'Changes', 'Console Output', 'Edit Build Information', 'Delete build #2', 'Timings', 'Git Build Data', 'Previous Build', and 'Next Build' are visible. The bottom right corner of the interface shows 'REST API' and 'Jenkins 2.479.2'.

```
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 57a4018edc2721caaf1be6af47a2f0967bae95df (origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 57a4018edc2721caaf1be6af47a2f0967bae95df # 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>copy /E /I /H /Y "C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build" "C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2"
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\asset-manifest.json
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\index.html
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\static\css\main.b4096959.css
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\static\css\main.b4096959.css.map
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\static\js\main.6b95959f.js
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\static\js\main.6b95959f.js.LICENSE.txt
C:\Nexturn\ChinnakotlaJagannath-Nexturn-Programs\VM6_Devops_Assignments\Exercise-2\build\static\js\main.6b95959f.js.map
7 File(s) copied

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
```