

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

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

2. Steps:

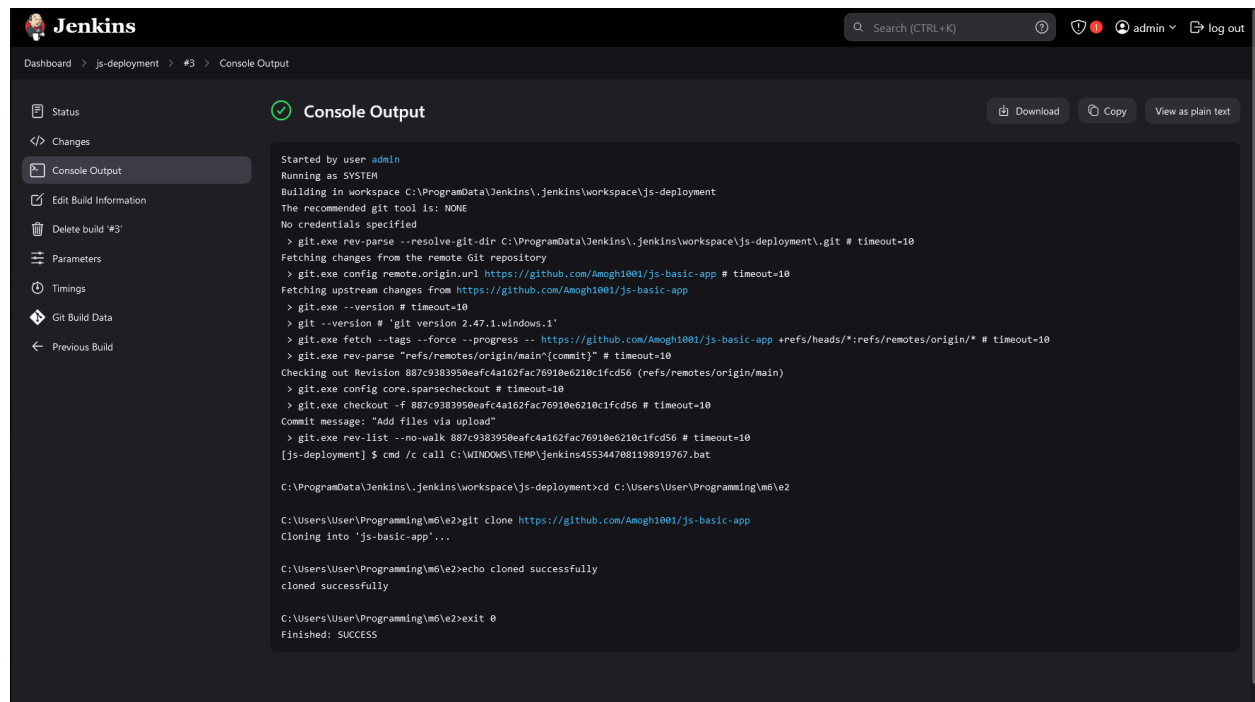
o Create a Freestyle Job.

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 (admin). The breadcrumb trail indicates the current view is 'Dashboard > js-deployment > #3 > Console Output'. On the left sidebar, the 'Console Output' tab is selected. The main area displays the console output for build #3, which is a Freestyle Job. The output shows the build process starting with 'Started by user admin' and 'Running as SYSTEM'. It details the workspace path, the recommended git tool, and the steps taken to clone a repository from GitHub, fetch changes, and checkout a specific revision. The build concludes with 'Finished: SUCCESS'.

```
Started by user admin
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\js-deployment
The recommended git tool is: NONE
No credentials specified
> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\js-deployment\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/Amogh1001/js-basic-app # timeout=10
Fetching upstream changes from https://github.com/Amogh1001/js-basic-app
> git.exe --version # timeout=10
> git --version # 'git version 2.47.1.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/Amogh1001/js-basic-app +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision 887c9383950eafc4a162fac76910e6210c1fcd56 (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 887c9383950eafc4a162fac76910e6210c1fcd56 # timeout=10
Commit message: "Add files via upload"
> git.exe rev-list --no-walk 887c9383950eafc4a162fac76910e6210c1fcd56 # timeout=10
[js-deployment] $ cmd /c call C:\WINDOWS\TEMP\jenkins4553447081198919767.bat

C:\ProgramData\Jenkins\jenkins\workspace\js-deployment>cd C:\Users\User\Programming\m6\2

C:\Users\User\Programming\m6\2>git clone https://github.com/Amogh1001/js-basic-app
Cloning into 'js-basic-app'...

C:\Users\User\Programming\m6\2>echo cloned successfully
cloned successfully

C:\Users\User\Programming\m6\2>exit 0
Finished: SUCCESS
```