

## Day 23 Task:

### Jenkins Freestyle Project for DevOps Engineers.

#### Task-01

- create a agent for your app. ( which you deployed from docker in earlier task)
- Create a new Jenkins freestyle project for your app.
- In the "Build" section of the project, add a build step to run the "docker build" command to build the image for the container.
- Add a second step to run the "docker run" command to start a container using the image created in step 3.

#### Task-02

- Create Jenkins project to run "docker-compose up -d" command to start the multiple containers defined in the compose file (Hint- use day-19 Application & Database docker-compose file)
- Set up a cleanup step in the Jenkins project to run "docker-compose down" command to stop and remove the containers defined in the compose file.

The screenshot displays the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search bar, and the user name 'Rushikesh Mashidkar'. The breadcrumb trail shows 'Dashboard > todo-app-cicd > #1'. The left sidebar contains links for 'Status', 'Changes', 'Console Output' (selected), 'View as plain text', 'Edit Build Information', 'Delete build '#1'', and 'Git Build Data'. The main area is titled 'Console Output' and shows the following log:

```
Started by user Rushikesh Mashidkar
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/todo-app-cicd
The recommended git tool is: NONE
using credential todo-app
Cloning the remote Git repository
Cloning repository https://github.com/RishikeshOps/Node-CICD-TODO.git
> git init /var/lib/jenkins/workspace/todo-app-cicd # timeout=10
Fetching upstream changes from https://github.com/RishikeshOps/Node-CICD-TODO.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT_SSH to set credentials
Verifying host key using known hosts file
You're using 'Known hosts file' strategy to verify ssh host keys, but your known_hosts file does not exist, please go to 'Manage Jenkins' -> 'Configure Global Security'
Host Key Verification Configuration' and configure host key verification.
> git fetch --tags --force --progress -- https://github.com/RishikeshOps/Node-CICD-TODO.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/RishikeshOps/Node-CICD-TODO.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 9525e5de053c96c372804330813e6172ac5cbac1 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 9525e5de053c96c372804330813e6172ac5cbac1 # timeout=10
Commit message: "Delete Jenkinsfile"
First time build. Skipping changelog.
Finished: SUCCESS
```

Below the console output is a browser address bar showing 'Not secure | 44.202.246.132:3000/todo'. The browser's tab bar shows several open tabs: 'RishikeshOps', 'Repositories | Dock...', 'AWS - Google Drive', 'AWS Management...', 'Kubernetes, Terrafor...', and 'Docker Cheetsheet...'.

## Rishikesh ka Shaandaar waala Todo-List hai ye

What should I do later?

```
Removing intermediate container 5f92c0095e59
--> a4e8ea9a9905
Step 3/6 : COPY . .
--> fd7c0aa09190
Step 4/6 : RUN npm install
--> Running in e7da9053a04e
[91mmpm[0m[91m [0m[91mIARN[0m[91m [0m[91mread-shrinkwrap[0m[91m This version of npm is compatible with lockfileVersion@1, but package-lock.json was generated for lockfileVersion@2. I'll try to do my best with it!
[0m
> ejsg2.7.4 postinstall /app/node_modules/ejs
> node ./postinstall.js

Thank you for installing [35mE3S[0m: built with the [32mJake[0m JavaScript build tool ([32mhttps://jakejs.com/[0m)

[91mmpm[0m[91m [0m[91mIARN[0m[91m my-todolist@0.1.0 No repository field.
[0m[91mmpm[0m[91m [0m[91mIARN[0m[91m my-todolist@0.1.0 No license field.
[0m[91m
[0madded 291 packages from 653 contributors and audited 291 packages in 8.675s
found 7 vulnerabilities (1 moderate, 4 high, 2 critical)
  run 'npm audit fix' to fix them, or 'npm audit' for details
Removing intermediate container e7da9053a04e
--> 77181393904d
Step 5/6 : EXPOSE 3000
--> Running in e47a8515d29c
Removing intermediate container e47a8515d29c
--> 46bcae928046
Step 6/6 : CMD ["node","app.js"]
--> Running in 2b9756935d9f
Removing intermediate container 2b9756935d9f
--> d29cd079bd8e
Successfully built d29cd079bd8e
Successfully tagged todo-app-cicd_web:latest
Image for service web was built because it did not already exist. To rebuild this image you must use 'docker-compose build' or 'docker-compose up --build'.
Creating todo-app-cicd_web_1 ...
Creating todo-app-cicd_web_1 ... done
Finished: SUCCESS
```