Mini Project - 3

Task: Containerizing VS-Code

Steps:

1) Verify the docker running status.

    sudo systemctl status docker

2) Pull the code-server image from the docker hub

    docker pull codercom/code-server

3) Run the container using the following command:

    mkdir -p ~/.config
    docker run -it --name code-server -p 127.0.0.1:8080:8080 \
      -v "$HOME/.config:/home/coder/.config" \
      -v "$PWD:/home/coder/project" \
      -u "$(id -u):$(id -g)" \
      -e "DOCKER_USER=$USER" \
      codercom/code-server:latest

```
vandan@vandan-Inspiron-14-5420:~$ docker pull codercom/code-server
Using default tag: latest
latest: Pulling from codercom/code-server
Digest: sha256:01dfb4784e1deefe15c8d09930520bb7074e2feddbc5128e82a3e3ee57f6bcff
Status: Image is up to date for codercom/code-server:latest
docker.io/codercom/code-server:latest
vandan@vandan-Inspiron-14-5420:~$ mkdir -p ~/.config
docker run -it --name code-server -p 127.0.0.1:8080:8080 \
  -v "$HOME/.config:/home/coder/.config" \
  -v "$PWD:/home/coder/project" \
  -u "$(id -u):$(id -g)" \
  -e "DOCKER_USER=$USER" \
  codercom/code-server:latest
[2024-05-24T03:50:45.620Z] info  Wrote default config file to /home/coder/.config/code-server/config.yaml
[2024-05-24T03:50:45.820Z] info  code-server 4.89.1 effc6e95b4ad1c5ac5f9083ec06663ba4a2e005c
[2024-05-24T03:50:45.821Z] info  Using user-data-dir /home/coder/.local/share/code-server
[2024-05-24T03:50:45.828Z] info  Using config file /home/coder/.config/code-server/config.yaml
[2024-05-24T03:50:45.828Z] info  HTTP server listening on http://0.0.0.0:8080/
[2024-05-24T03:50:45.828Z] info    - Authentication is enabled
[2024-05-24T03:50:45.828Z] info      - Using password from /home/coder/.config/code-server/config.yaml
[2024-05-24T03:50:45.828Z] info    - Not serving HTTPS
[2024-05-24T03:50:45.828Z] info  Session server listening on /home/coder/.local/share/code-server/code-server-ipc.sock
[03:50:58]
```

4) The command will run a vs-code server on the browser.

5) On the terminal, exit the running container once, and use the command:

   docker exec -it code-server bash

6) After logging into the container, enter:

   cd /home/coder/.config/code-server/

   Check the config.yaml file for password.

```
vandan@vandan-Inspiron-14-5420:~$ docker exec -it code-server bash
vandan@c0092a29edcc:~$ cd /home/coder/.config/code-server/config.yaml/
bash: cd: /home/coder/.config/code-server/config.yaml/: Not a directory
vandan@c0092a29edcc:~$ cd home/coder/.config/code-server/
bash: cd: home/coder/.config/code-server/: No such file or directory
vandan@c0092a29edcc:~$ cd /home/coder/.config/code-server/
vandan@c0092a29edcc:~/.config/code-server$ ls
config.yaml
vandan@c0092a29edcc:~/.config/code-server$ cat config.yaml
bind-addr: 127.0.0.1:8080
auth: password
password: 6f1737f7e8879b80b64357c7
cert: false
vandan@c0092a29edcc:~/.config/code-server$ ^C
vandan@c0092a29edcc:~/.config/code-server$ cat config.yaml
bind-addr: 127.0.0.1:8080
auth: password
password: 6f1737f7e8879b80b64357c7
cert: false
vandan@c0092a29edcc:~/.config/code-server$ exit
exit
```

7) Simply go to the portrainer console and run the code-server container again. Enter the password. Task is successfully completed.

Not secure | https://localhost:9443/#!/2/docker/containers/c0092a29edcc9e0d578e28f4a90e79b3d85a41fa9f5789152197db8bb6293487

Containers > code-server

Container details

admin

Actions

▷ Start | ☐ Stop | ↻ Kill | ⟳ Restart | ❚❚ Pause | ▷ Resume | 🗑 Remove | ⟳ Recreate | ⎘ Duplicate/Edit

Container status

ID	c0092a29edcc9e0d578e28f4a90e79b3d85a41fa9f5789152197db8bb6293487
Name	code-server ☑
IP address	172.17.0.6
Status	💎 Running for 12 minutes
Created	2024-05-24 09:20:45
Start time	2024-05-24 09:22:49
Container webhook ⓘ	⬤ 🏢 Business Feature

📄 Logs | ⓘ Inspect | 📊 Stats | >_ Console | 📎 Attach

Access control

127.0.0.1:8080/?folder=/home/coder

○ coder

EXPLORER
⌄ CODER
> .config
> .local
> project
≡ .bash_history
$ .bash_logout
$ .bashrc
$ .profile

Welcome ✕

< Welcome

Get Started with VS Code for the Web

Customize your editor, learn the basics, and start coding

○ **Choose your theme**
The right theme helps you focus on your code, is easy on your eyes, and is simply more fun to use.

Browse Color Themes

Tip: Use keyboard shortcut **(Ctrl+K Ctrl+T)**

○ Just the right amount of UI

○ Rich support for all your languages

○ Unlock productivity with the Command Palette

○ Quickly navigate between your files

✓ Mark Done   Next Section →

Dark Modern

Light Modern

Dark High Contrast

Light High Contrast

See More Themes...

> OUTLINE
> TIMELINE

⊗ 0 ⚠ 0   🔌 0

Layout: us