DOCKER COMMANDS

1. Docker login to login to docker hub

```
C:\Users\admin\Desktop\Hello>docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\admin\Desktop\Hello>
```

2. Docker tag to tag username to image

```
C:\Users\admin\Desktop\Hello>docker tag helloapp Rohan91196/helloapp
Error parsing reference: "Rohan91196/helloapp" is not a valid repository/tag: invalid reference format: repository name must be lowercase

C:\Users\admin\Desktop\Hello>docker tag helloapp rohan91196/helloapp
```

3. Docker push

```
C:\Users\admin\Desktop\Hello>docker push rohan91196/helloapp:latest
The push refers to repository [docker.io/rohan91196/helloapp]

7eee057e930b: Pushed
6bbad9f171d7: Pushed
e10ce9a31c29: Pushed
0c5c99074fa8: Pushed
eb71c8b7b3b7: Pushed
76d682e14461: Pushed
d59c8eb8f9a4: Pushed
34d5ebaa5410: Pushed
latest: digest: sha256:26365b923b06daa18400982431e4f45b6299775616f6f98cbc9363bebd2c876d size: 1993

C:\Users\admin\Desktop\Hello>
```

4. Docker pull

```
C:\Users\admin\Desktop\Hello>docker pull rohan91196/helloapp:latest
latest: Pulling from rohan91196/helloapp
Digest: sha256:26365b923b06daa18400982431e4f45b6299775616f6f98cbc9363bebd2c876d
Status: Image is up to date for rohan91196/helloapp:latest
docker.io/rohan91196/helloapp:latest
```

5. Docker status

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS f0c24643012d nifty_brattain 0.38% 39.34MiB / 6.117GiB 0.63% 876B / 0B 0B / 0B 3
```

Docker image build

```
| PS C:\Users\admin\Desktop\Hello> docker build -t helloapp:latest .
| [+] Building 25.1s (10/10) FINISHED |
|-> [internal] load build definition from Dockerfile |
|-> => transferring dockerfile: 1698 |
|-> [internal] load .dockerignore |
|-> => transferring context: 28 |
|-> [internal] load metadata for docker.io/library/python:3-alpine3.15 |
|-> [auth] library/python:pull token for registry-1.docker.io |
|-> => [1/4] FROM docker.io/library/python:3-alpine3.15|
|-> => => transferring context: 28 |
|-> => transferring context: 28 |
|-> => transferring context: 28 |
|-> => [1/4] FROM docker.io/library/python:3-alpine3.15|
|-> => transferring context: 28 |
|-> => transferring context: 28 |
|-> => transferring context: 468 |
|-> => transferring context: 468 |
|-> => transferring context: 4698 |
|-> => transferring docker.io/library/python:3-alpine3.15|
|-> => transferring context: 4698 |
|-> => transferring docker.io/library/python:3-alpine3.15|
|-> => transferring context: 4698 |
|-> => transferring context: 4698 |
|-> => transferring docker.io/library/python:3-alpine3.15|
|-> => transferring context: 4698 |
|-> => transferring docker.io/library/python:3-alpine3.15|
|-> => transferring context: 4698 |
```

7. Docker container run

```
PS C:\Users\admin\Desktop\Hello> docker container run -d -p 3000:3000 helloapp:latest f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e
PS C:\Users\admin\Desktop\Hello> [
```

8. Docker top processes of container

PS C:\Users\a	admin\Desktop\Hello>	docker top f0c2464	3012d08c3f4022ea998	43dc3d4c54579be8461fa291	lfc172fb82bae6e	
UID	PID	PPID	С	STIME	TTY	
TIME	CMD					
root	6190	6170	0	09:52	5	
00:00:00	python ./hello.py					
root	6233	6190	0	09:52	5	
00:00:02	/usr/local/b	/usr/local/bin/python /app/hello.py				

9. Docker modified files of container

```
PS C:\Users\admin\Desktop\Hello> docker diff f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e
C /usr
C /usr/local
C /usr/local/lib
C /usr/local/lib/python3.11
C /usr/local/lib/python3.11/_pycache__
A /usr/local/lib/python3.11/_pycache__/code.cpython-311.pyc
A /usr/local/lib/python3.11/_pycache__/codeop.cpython-311.pyc
A /usr/local/lib/python3.11/_pycache__/secrets.cpython-311.pyc
A /usr/local/lib/python3.11/_pycache__/secrets.cpython-311.pyc
C /usr/local/lib/python3.11/_pycache__/difflib.cpython-311.pyc
C /usr/local/lib/python3.11/http
C /usr/local/lib/python3.11/http/_pycache__
A /usr/local/lib/python3.11/http/_pycache__/server.cpython-311.pyc
PS C:\Users\admin\Desktop\Hello> [
```

10. To get mapped port of container

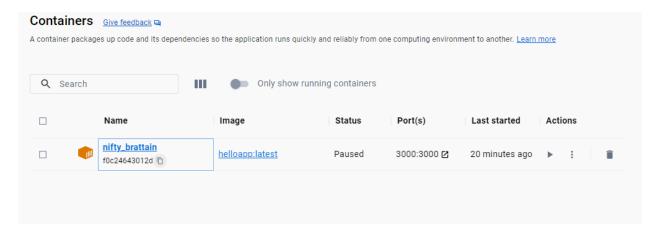
```
PS C:\Users\admin\Desktop\Hello> docker port f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e 3000/tcp -> 0.0.0.0:3000
PS C:\Users\admin\Desktop\Hello> [
```

11. To get logs of container

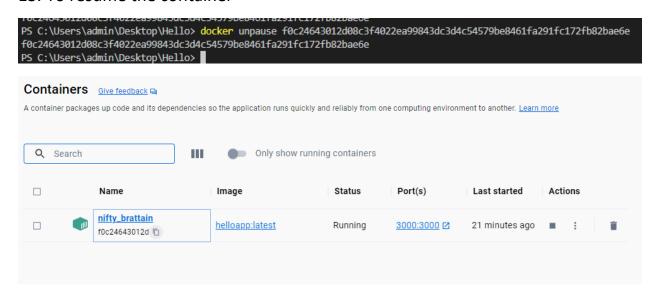
```
See 'docker --help'
PS C:\Users\admin\Desktop\Hello> docker logs f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e
 * Serving Flask app 'hello'
 * Debug mode: on
* Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:3000
 * Running on http://172.17.0.2:3000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 138-533-364
172.17.0.1 - - [24/Apr/2023 08:52:08] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [24/Apr/2023 08:52:08] "GET /favicon.ico HTTP/1.1" 404 -
 * Serving Flask app 'hello'
 * Debug mode: on
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:3000
* Running on http://172.17.0.2:3000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 138-533-364
PS C:\Users\admin\Desktop\Hello> []
```

12. To pause the container

```
PS C:\Users\admin\Desktop\Hello> docker pause f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e PS C:\Users\admin\Desktop\Hello> \Box
```

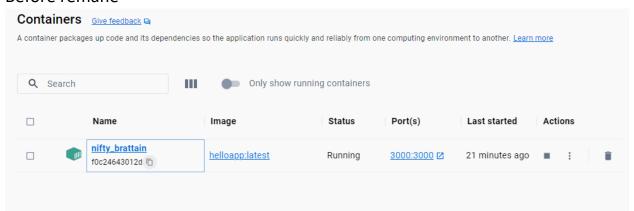


13. To resume the container



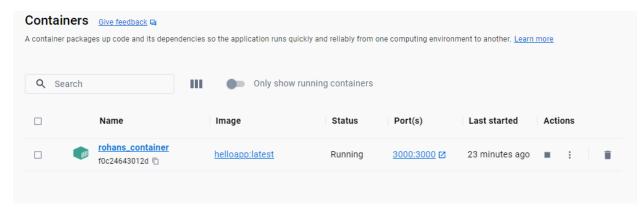
14. Rename container

a. Before remane



b. After rename

Press CTRL+C to quit * Restarting with stat * Debugger is active! * Debugger PIN: 138-533-364 PS C:\Users\admin\Desktop\Hello> docker pause f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e PS C:\Users\admin\Desktop\Hello> docker unpause f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e PS C:\Users\admin\Desktop\Hello> docker rename nifty_brattain rohans_container PS C:\Users\admin\Desktop\Hello> []

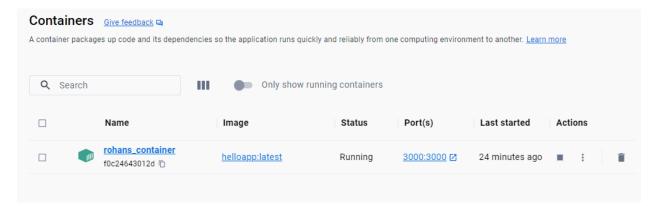


15.To create image out of container

- PS C:\Users\admin\Desktop\Hello> docker pause f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e
- PS C:\Users\admin\Desktop\Hello> docker unpause f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc172fb82bae6e
- PS C:\Users\admin\Desktop\Hello> docker rename nifty_brattain rohans_container
- PS C:\Users\admin\Desktop\Hello> docker commit rohans_container
- sha256:ab252e0da9a6228423f69eb514db19666365ca953056b9430325191f448ea980
- PS C:\Users\admin\Desktop\Hello>

16.To delete running container

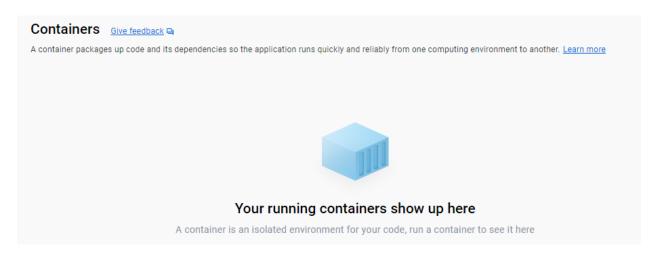
a. Before delete



b. After command

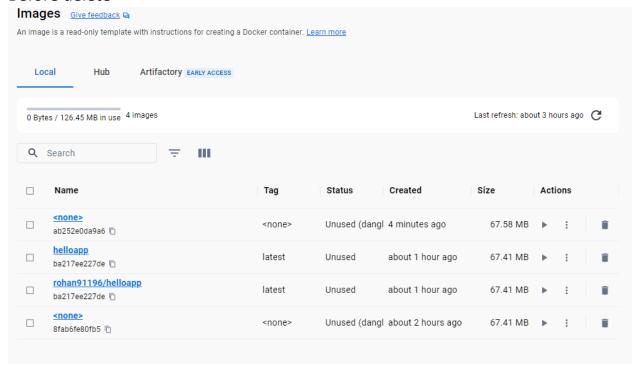
PS C:\Users\admin\Desktop\Hello> docker rm rohans_container

Error response from daemon: You cannot remove a running container f0c24643012d08c3f4022ea99843dc3d4c54579be8461fa291fc1
72fb82bae6e. Stop the container before attempting removal or force remove
PS C:\Users\admin\Desktop\Hello> docker rm -f rohans_container
rohans_container
PS C:\Users\admin\Desktop\Hello>



17. Deleting unused images

a. Before delete



b. After delete

PS C:\Users\admin\Desktop\Hello> docker images prune -a IMAGE ID CREATED SIZE REPOSITORY TAG $PS \ \underline{C:\ Users \ admin\ Desktop\ Hello} > \ \underline{delete} \ \ rmi \ \ ba217ee227de4bd95d33ff6b5c88da009b7ea736d2989c3b202261fd7cb93037ab20261fd7cb93037ab20261fd7cb93037ab20261fd7cb93047ab20261fd7cb93047ab20261fd7cb93047ab20261fd7cb93047ab20261fd7cb93047661fd7cb93047ab20261fd7cb93047661fd7cb93047661fd7cb93047661fd7cb9$ delete: The term 'delete' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1 + CategoryInfo : ObjectNotFound: (delete:String) [], CommandNotFoundException + FullyQualifiedErrorId : CommandNotFoundException $PS \ C: \ Users \ admin\ Desktop\ Hello> \ docker \ delete \ rmi \ ba 217ee 227 de 4b d95 d33 ff 6b5 c88 da 009b7 ea 736 d2989 c3b2 0226 1f d7 cb93 037 d298 d7 c5b2 0226 1f d7 c5b2$ docker: 'delete' is not a docker command. See 'docker --help' PS C:\Users\admin\Desktop\Hello> docker rmi ba217ee227de4bd95d33ff6b5c88da009b7ea736d2989c3b202261fd7cb93037 Error response from daemon: conflict: unable to delete ba217ee227de (cannot be forced) - image has dependent child imag PS C:\Users\admin\Desktop\Hello> docker rmi ba217ee227de4bd95d33ff6b5c88da009b7ea736d2989c3b202261fd7cb93037 Error response from daemon: conflict: unable to delete ba217ee227de (cannot be forced) - image has dependent child imag PS C:\Users\admin\Desktop\Hello> docker rmi ba217ee227de4bd95d33ff6b5c88da009b7ea736d2989c3b202261fd7cb93037 Error response from daemon: conflict: unable to delete ba217ee227de (must be forced) - image is referenced in multiple repositories PS C:\Users\admin\Desktop\Hello> [

