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Day19_Daily_Task:

02-09-2025:

Describe the complete process of containerizing and deploying a Web API application using Docker, including writing the Dockerfile, building the image, and running the container.

```
Yuvraj.K@dockervm01:~/Documents/Day12api/Day12api$ sudo docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
Yuvraj.K@dockervm01:~/Documents/Day12api/Day12api$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
sample_docker   latest    2db79bd79354   About a minute ago   136MB
netapi         latest    01c0ed68d9bb   8 minutes ago        236MB
runnew         latest    d44c0382fe99   10 minutes ago        270MB
sample         latest    d44c0382fe99   10 minutes ago        270MB
sanjeev        latest    d44c0382fe99   10 minutes ago        270MB
my_docker_image latest    a94724a1be09   11 minutes ago        237MB
dockerapp       latest    ad505a0d45c3   12 minutes ago        237MB
<none>         <none>    4d5f8cdd8858   17 minutes ago        227MB
dotnet_fi       latest    706591e9f4de   42 minutes ago        230MB
<none>         <none>    22bc3e0c07a4   48 minutes ago        237MB
python_docker   latest    bc054b79e4de   51 minutes ago        136MB
fastapi         latest    bf017add3a7d   51 minutes ago        136MB
fastpython      latest    bf017add3a7d   51 minutes ago        136MB
fastapi-app     latest    48b0bbd32360   56 minutes ago        188MB
fastapi4        latest    37f585ae4356   59 minutes ago        305MB
fastapi3        latest    1edcbcb08a0    About an hour ago     305MB
fastapi2        latest    424c4ec616cf   About an hour ago     305MB
api-python      latest    b20a911ad56b   About an hour ago     213MB
<none>         <none>    2457668a5289   About an hour ago     305MB
my_dotnet       latest    c07b73fb1049   About an hour ago     136MB
api_movies-api  latest    41307718b337   About an hour ago     257MB
<none>         <none>    3739cb7c7647   About an hour ago     257MB
hi-dotnet       latest    0267f563f3b2   2 hours ago           220MB
<none>         <none>    e99dcab5165c   2 hours ago           220MB
my_docker       latest    2399936795e6   2 hours ago           237MB
dockerapi       latest    2399936795e6   2 hours ago           237MB
<none>         <none>    b6969273516e   2 hours ago           237MB
docker_example  latest    54442697c17a   2 hours ago           220MB
dotnet-samp     latest    54442697c17a   2 hours ago           220MB
book_test      latest    9307deba7fda   2 hours ago           237MB
jogapi         latest    acc4064f5a86   2 hours ago           283MB
api-movies     latest    58a0281f01de   2 hours ago           257MB
<none>         <none>    91e04791b91d   2 hours ago           257MB
dotnet_f       latest    6f49dfe409a0   2 hours ago           238MB
ubuntu         latest    802541663949   13 days ago           78.1MB
```

```
Yuvraj.K@dockervm01:~/Documents/Day12api/Day12api$ sudo docker run -d -p 5000:5000 my_docker_image
5f6eda7e94d1c80e680c9fa6049f4a79ea80bdf361d6f7ba92ad7174fad6bb
Yuvraj.K@dockervm01:~/Documents/Day12api/Day12api$ curl localhost:5000/swagger/index.html
```

```
Yuvraj.K@dockervm01:~/Documents/Day12api/Day12api$ sudo docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
f7c4e24b1b05   dockerfile   "dotnet Dockerpro.dll"   5 seconds ago   Up 4 seconds   80/tcp, 0.0.0.0:8099->8080/tcp, [::]:8099-8080/tcp   eager_likov
9d7773dfcb00   dotnet_fi   "dotnet Miniproject..."   About a minute ago   Up About a minute   0.0.0.0:8093->8080/tcp, [::]:8093->8080/tcp   dotnet_fi
eaf9aa92abe4   mcr.microsoft.com/mssql/server:2022-latest   "/opt/mssql/bin/laun..."   About a minute ago   Up About a minute   0.0.0.0:1433->1433/tcp, [::]:1433->1433/tcp   sql_server
37678d0d2db7   last       "fastapi run sanjeev..."   About a minute ago   Up About a minute   0.0.0.0:8001->8000/tcp, [::]:8001->8000/tcp   zen_curie
5a631b573536   doc-samp   "dotnet DockerAPI.dll"   About a minute ago   Up About a minute   0.0.0.0:8085->8088/tcp, [::]:8085->8088/tcp   gallant_napier
81bd077be52c   api_movies-api   "dotnet API_Movies.d..."   2 minutes ago   Up 2 minutes   0.0.0.0:8100->5000/tcp, [::]:8100->5000/tcp   api_movies-api
5f6eda7e94d1   my_docker_image   "dotnet Day12api.dll"   3 minutes ago   Up 2 minutes   0.0.0.0:5000->5000/tcp, [::]:5000->5000/tcp   wonderful_rubin
```