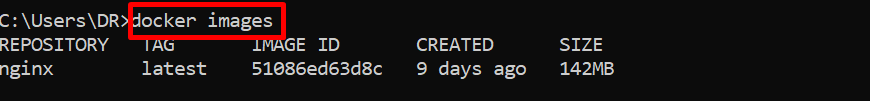
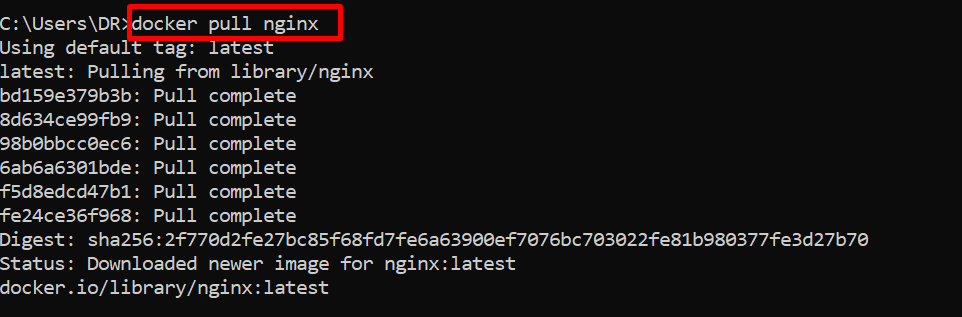
**1. Verify Installation**

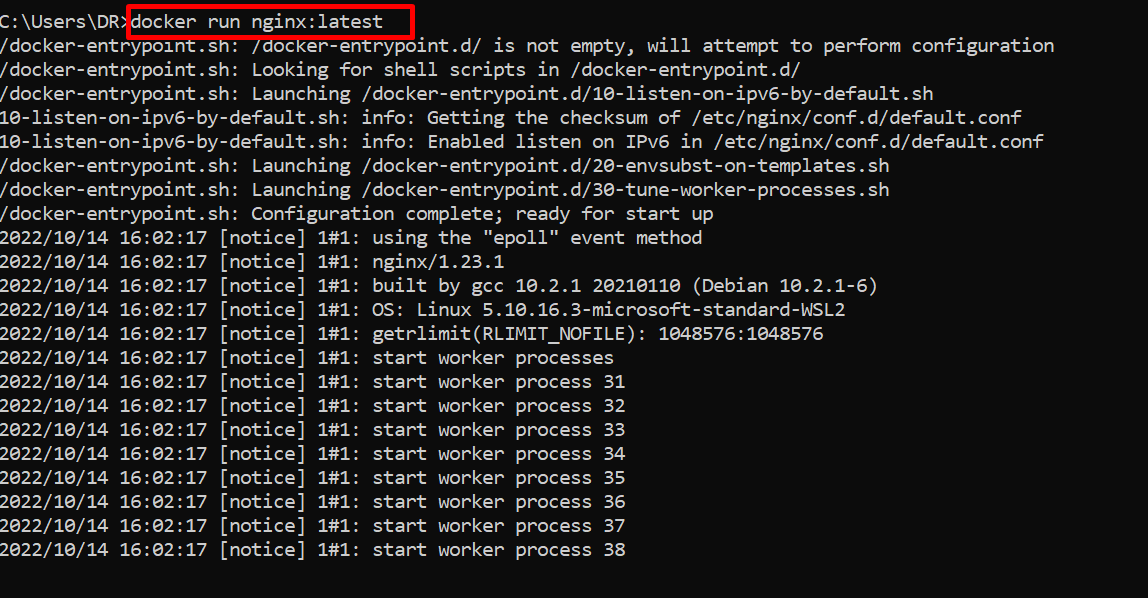


**2. Docker Image**



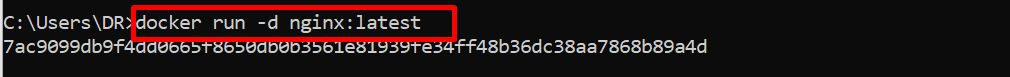
**3. Running Containers**

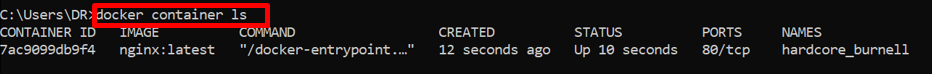




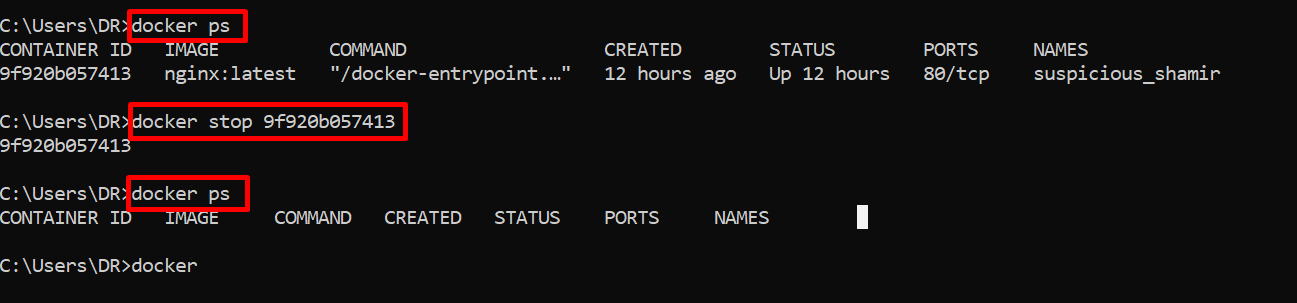
Docker run nginx:latest by this command editor be hang

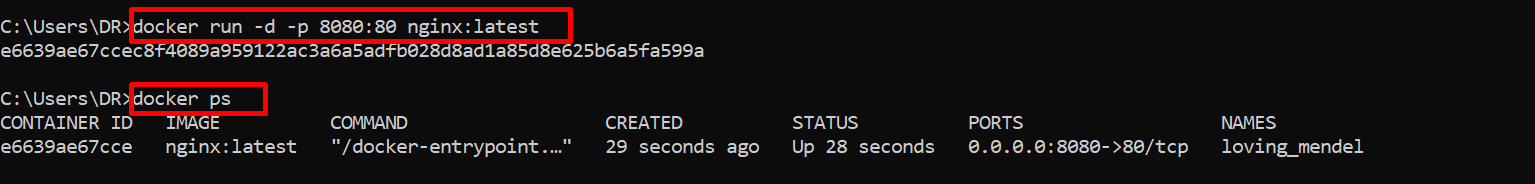
Run container in backend

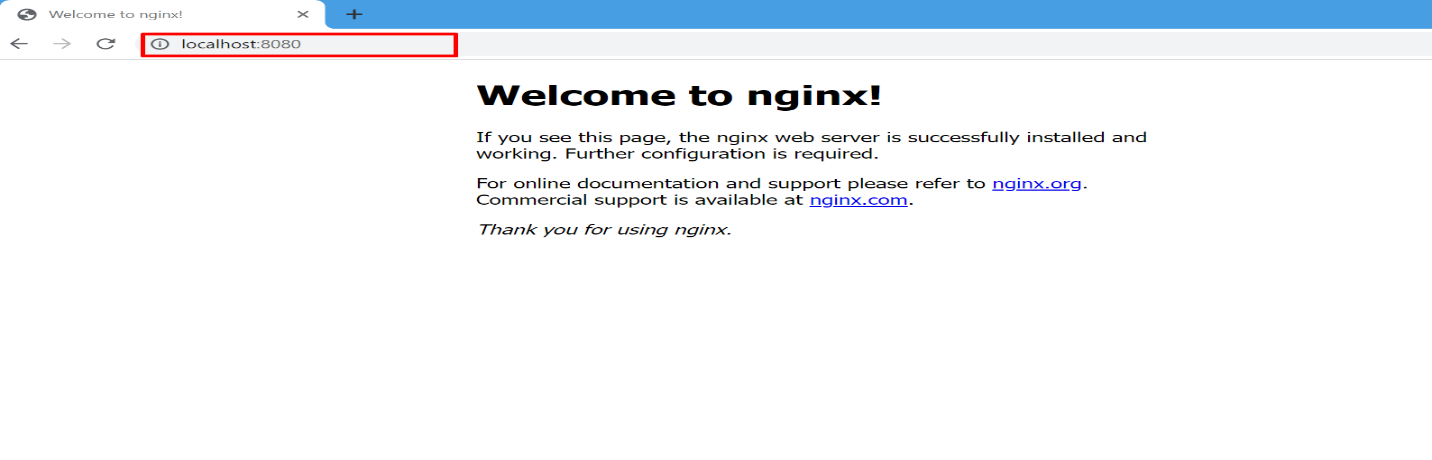




Run container by desire port

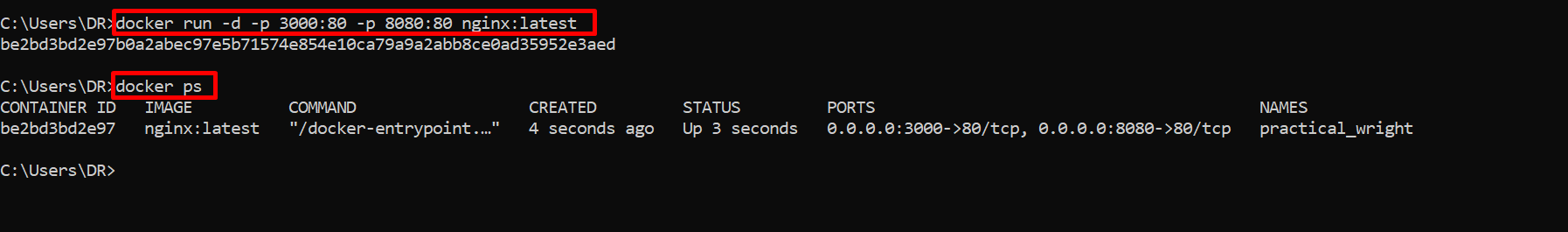




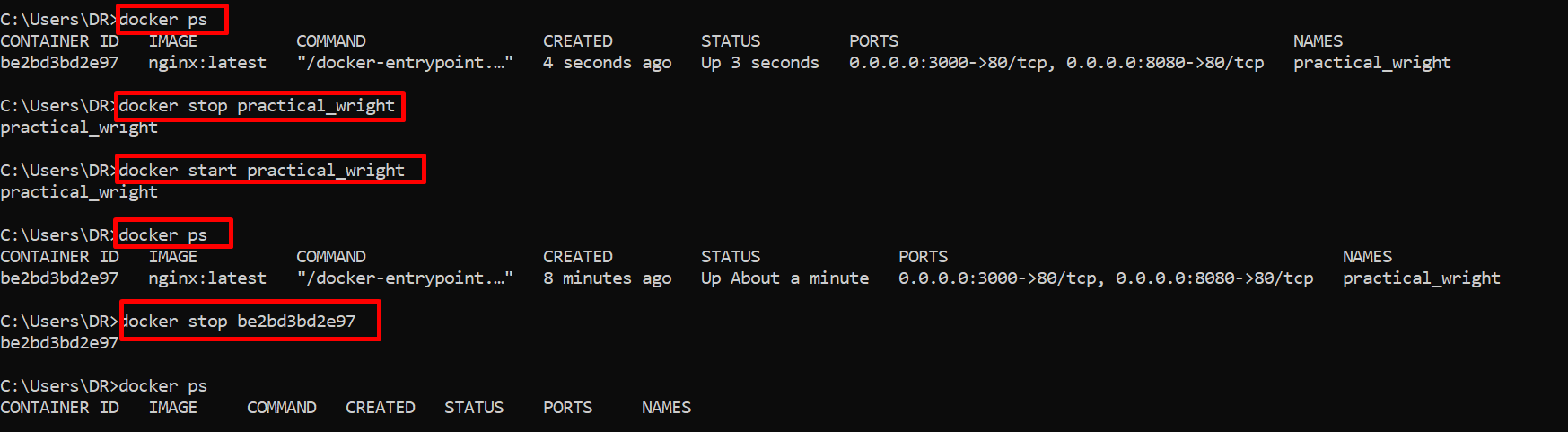


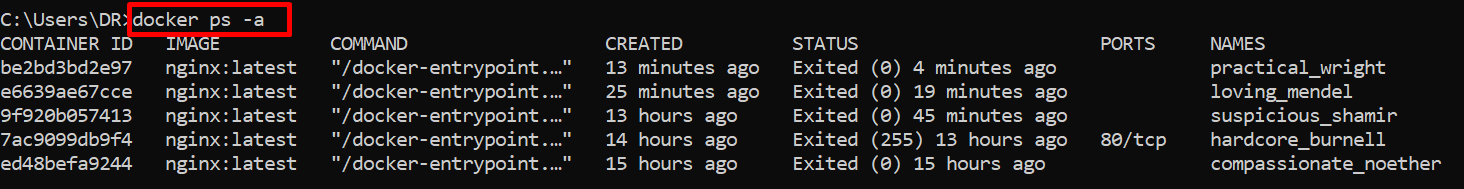
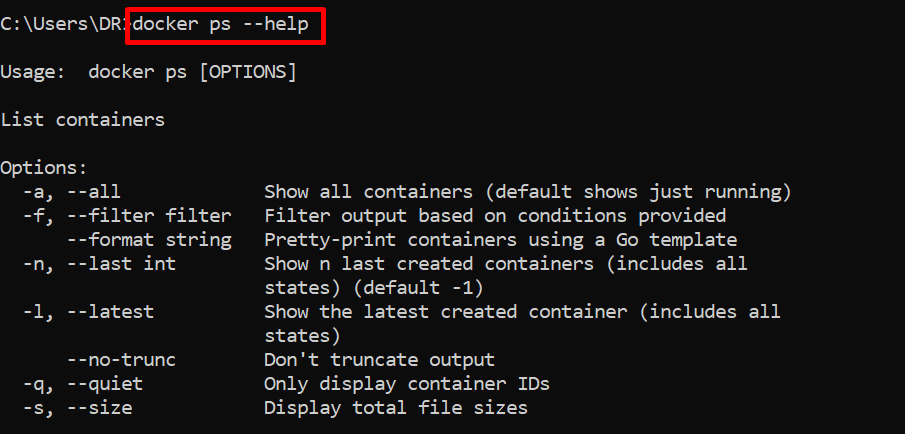


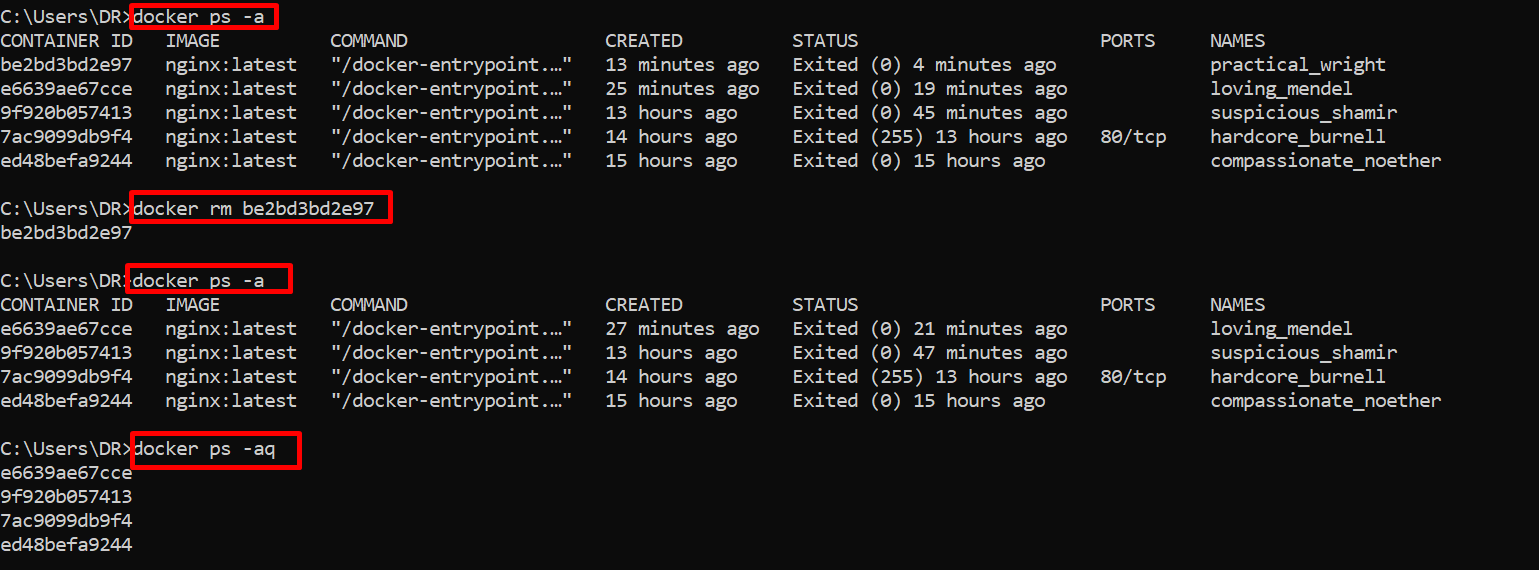
4. Exposing Multiple Ports

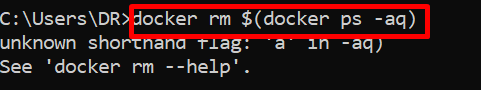


5. Mangaging Containers



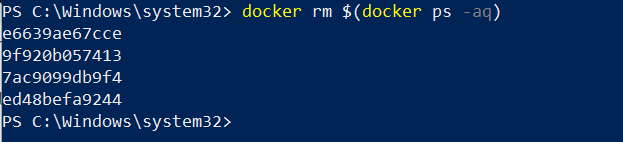


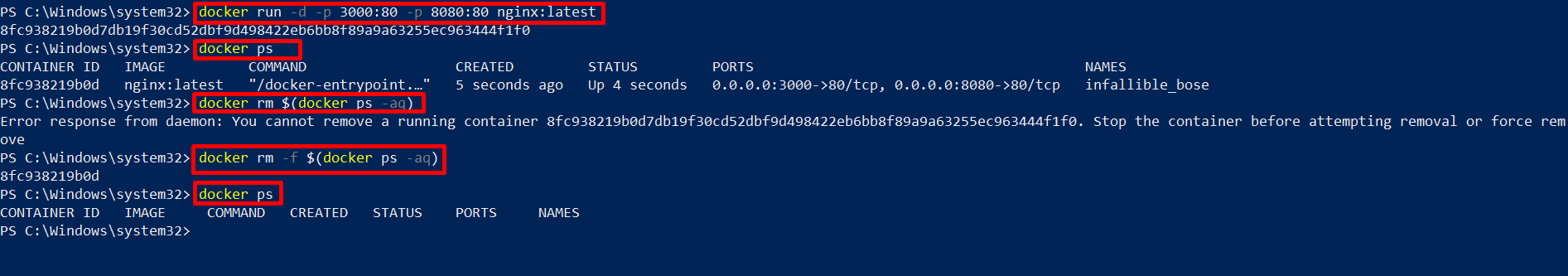




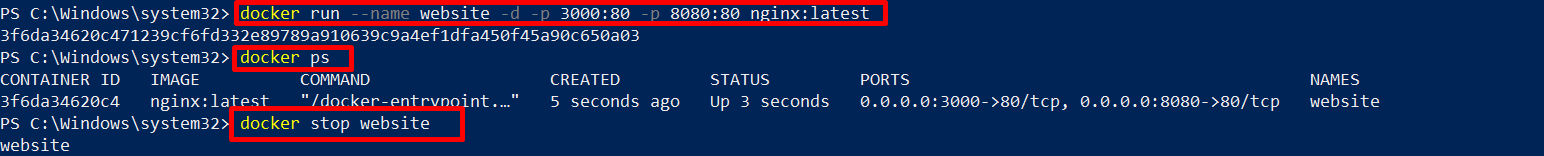
Solution:





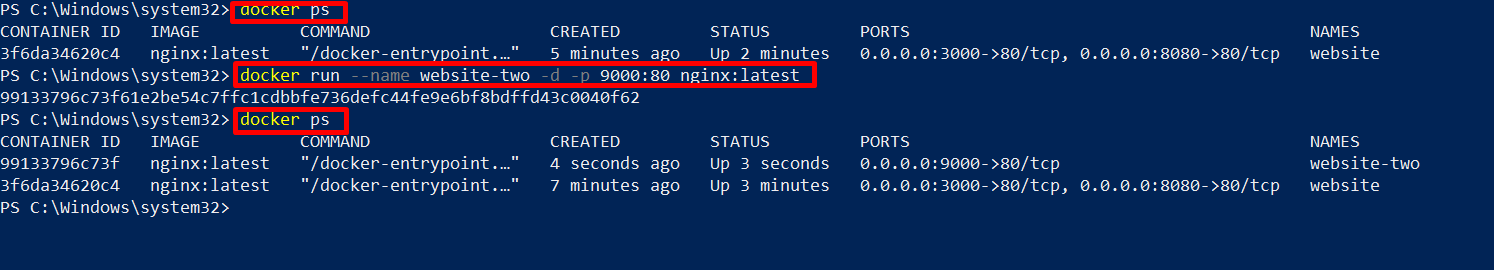


6. Naming Container



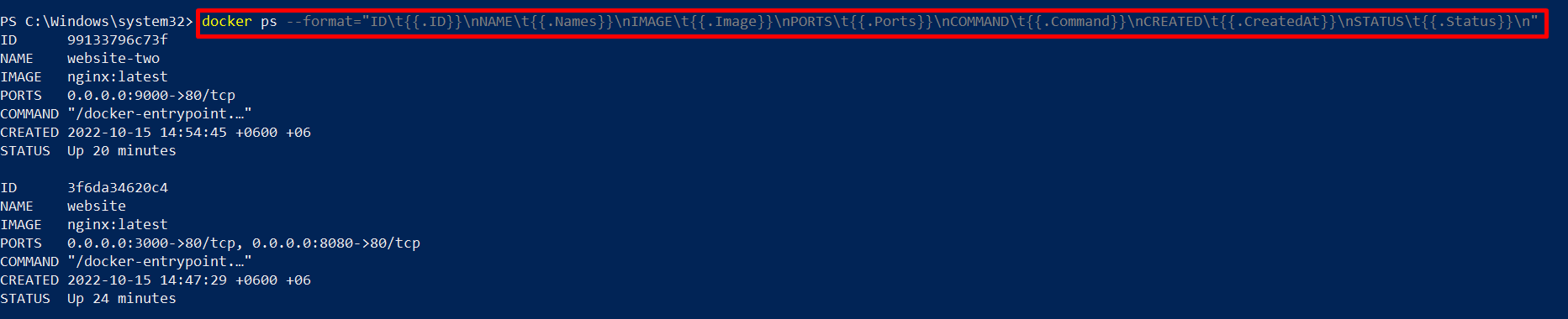


7. Docker ps



Formating

docker ps --format="ID\t{{.ID}}\nNAME\t{{.Names}}\nIMAGE\t{{.Image}}\nPORTS\t{{.Ports}}\nCOMMAND\t{{.Command}}\nCREATED\t{{.CreatedAt}}\nSTATUS\t{{.Status}}\n"



In windows set Environment Variable from powershell

PS C:\Windows\system32> $Env:FORMAT ="ID\t{{.ID}}\nNAME\t{{.Names}}\nIMAGE\t{{.Image}}\nPORTS\t{{.Ports}}\nCOMMAND\t{{.Command}}\nCREATED\t{{.CreatedAt}}\nSTATUS\t{{.Status}}\n"

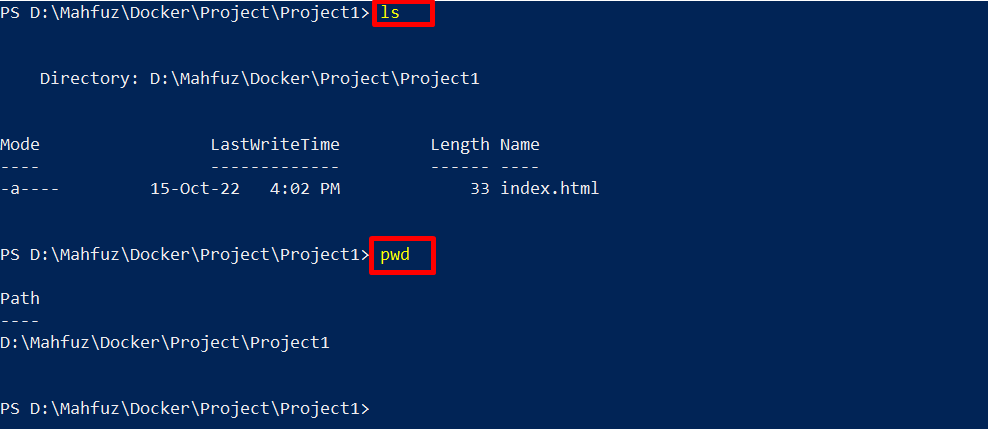
In linux set Environment Variable

export FORMAT ="ID\t{{.ID}}\nNAME\t{{.Names}}\nIMAGE\t{{.Image}}\nPORTS\t{{.Ports}}\nCOMMAND\t{{.Command}}\nCREATED\t{{.CreatedAt}}\nSTATUS\t{{.Status}}\n"

Docker ps reference: https://docs.docker.com/engine/reference/commandline/ps/

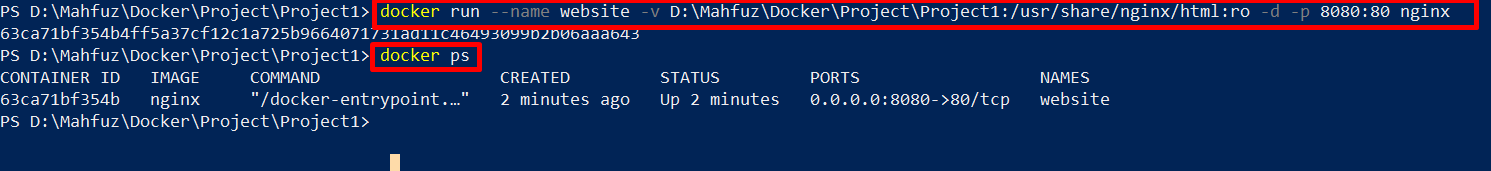
8. Docker Volume

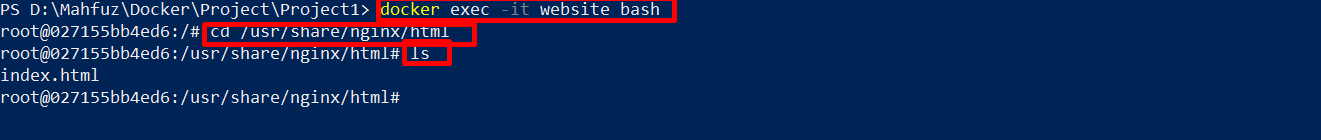
Mount local volume with docker container



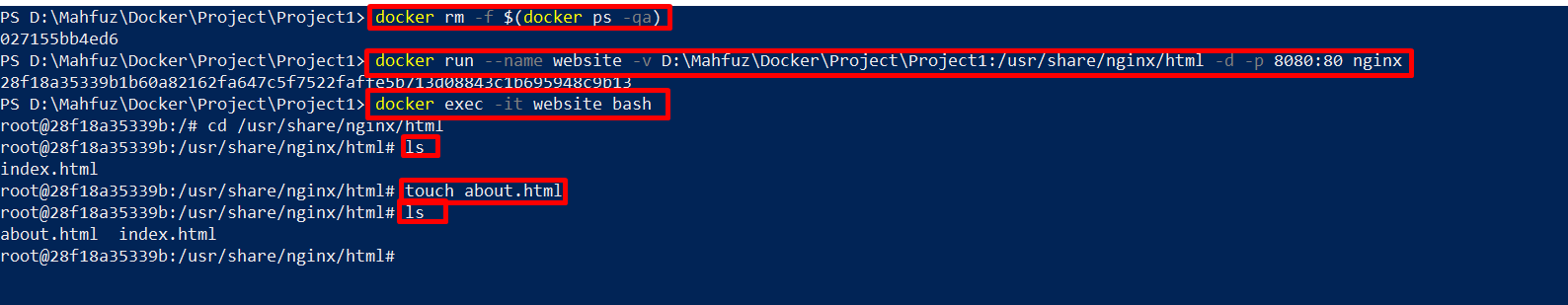


Read Only mode volume

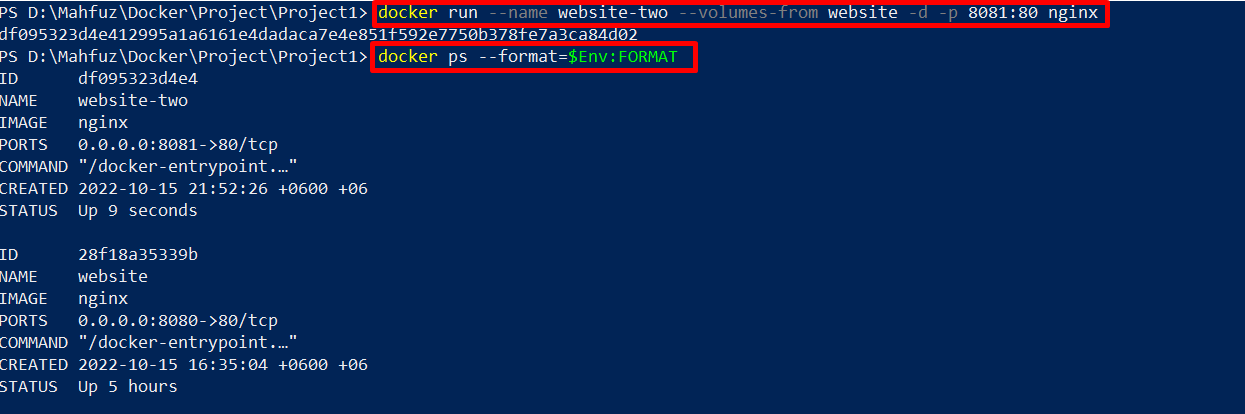




Read write mode volume



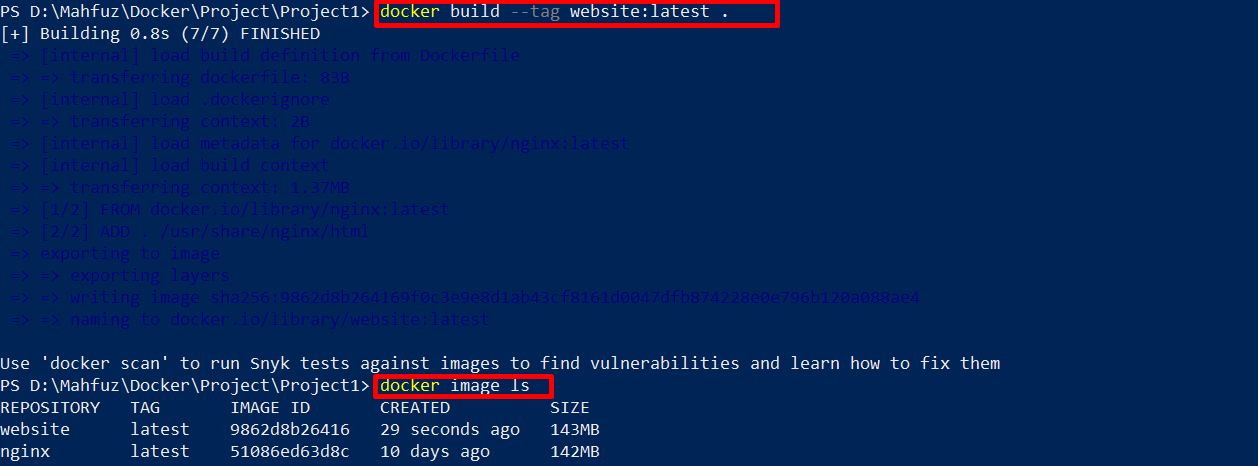
Sharing volumes between containers

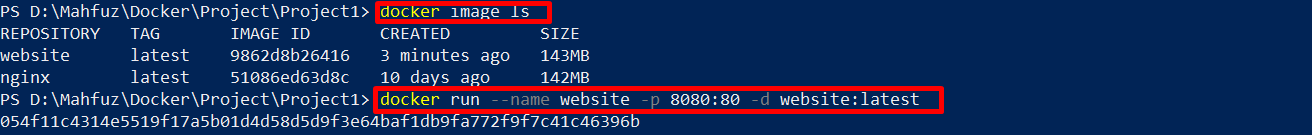


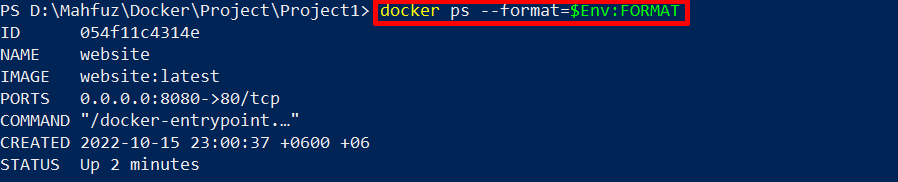
9. Dockerfile

FROM nginx:latest

ADD . /usr/share/nginx/html







10. Nodejs and Express

Dockerfile

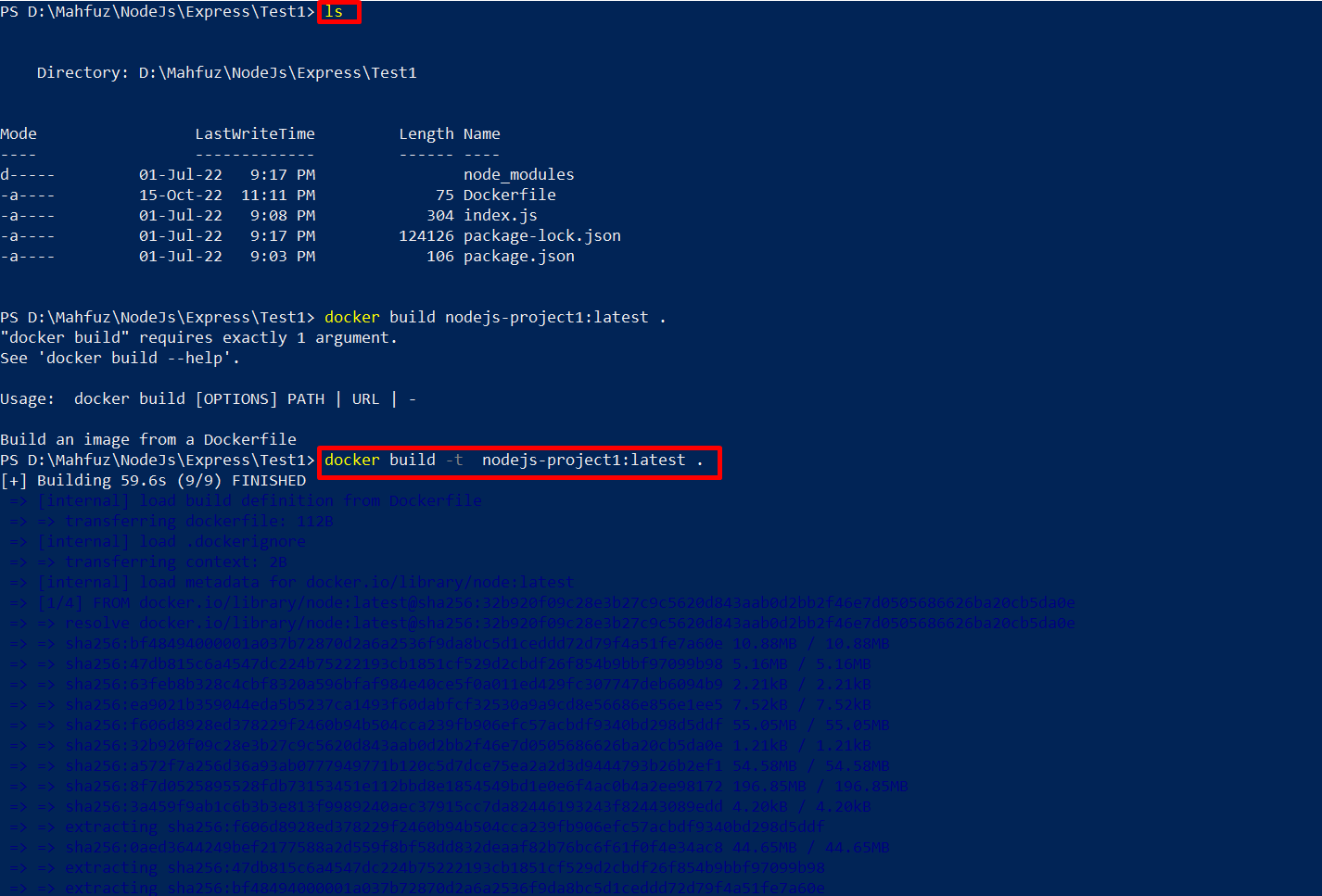
FROM node:latest

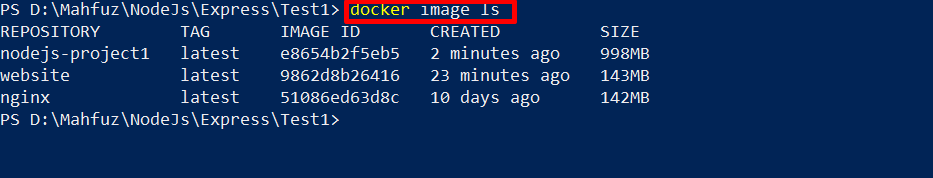
WORKDIR /app

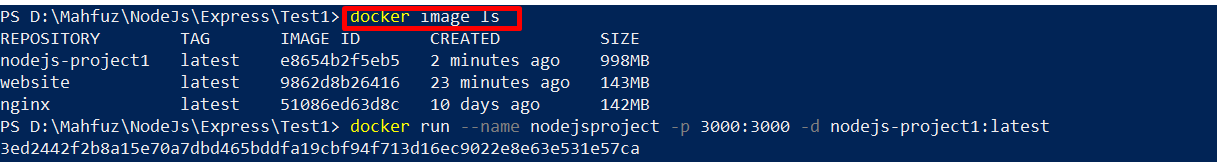
ADD . .

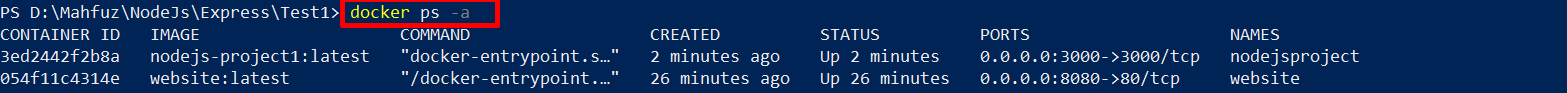
RUN npm install

CMD node index.js

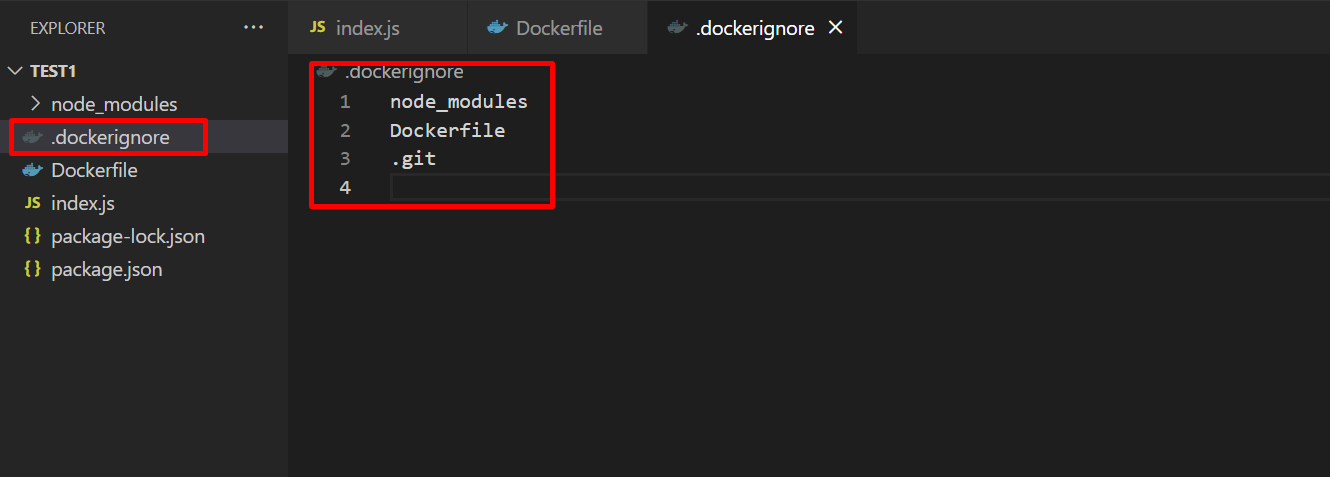


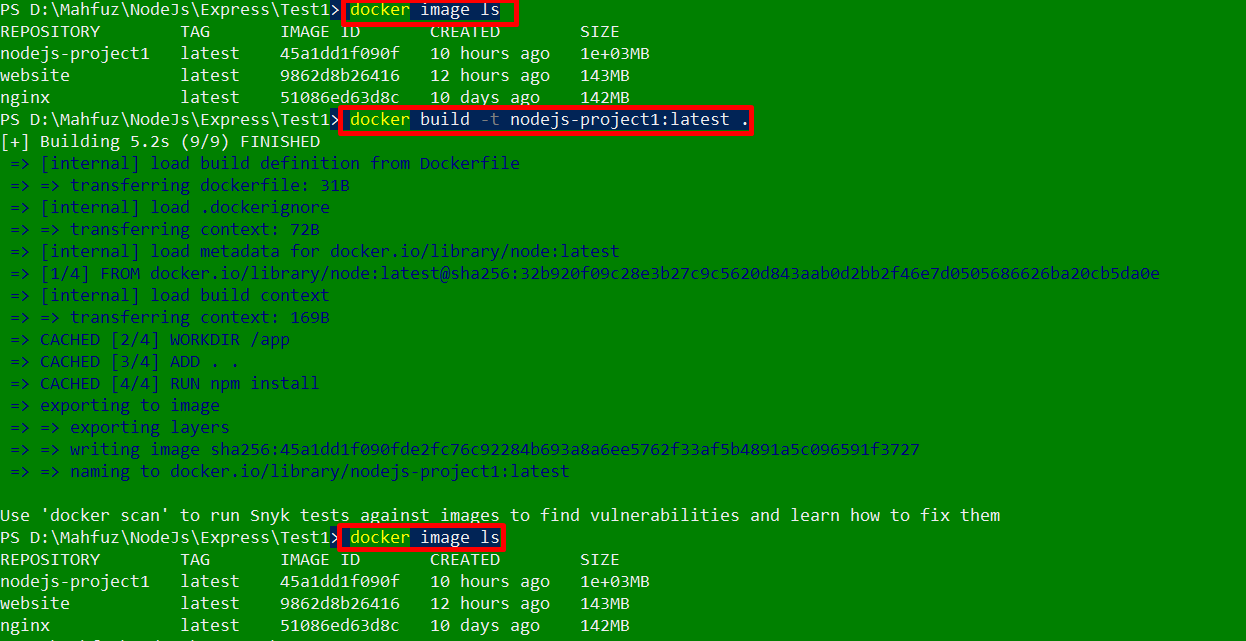






.Dockerignore

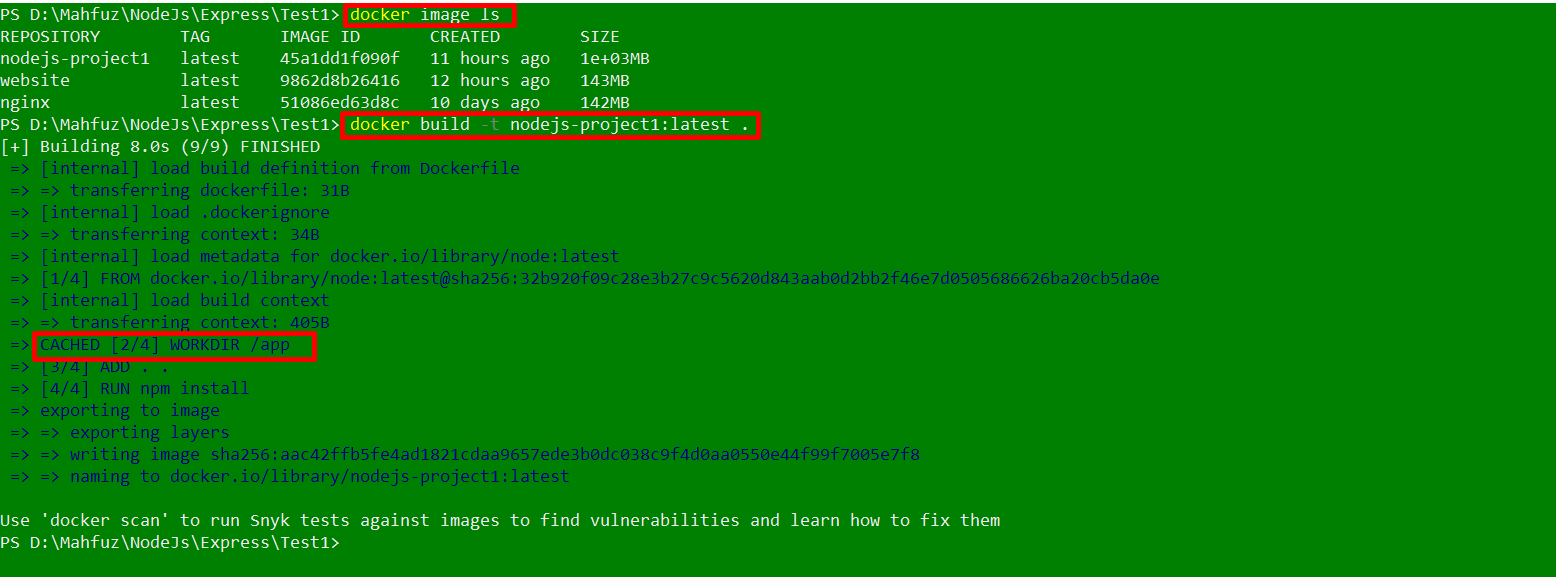


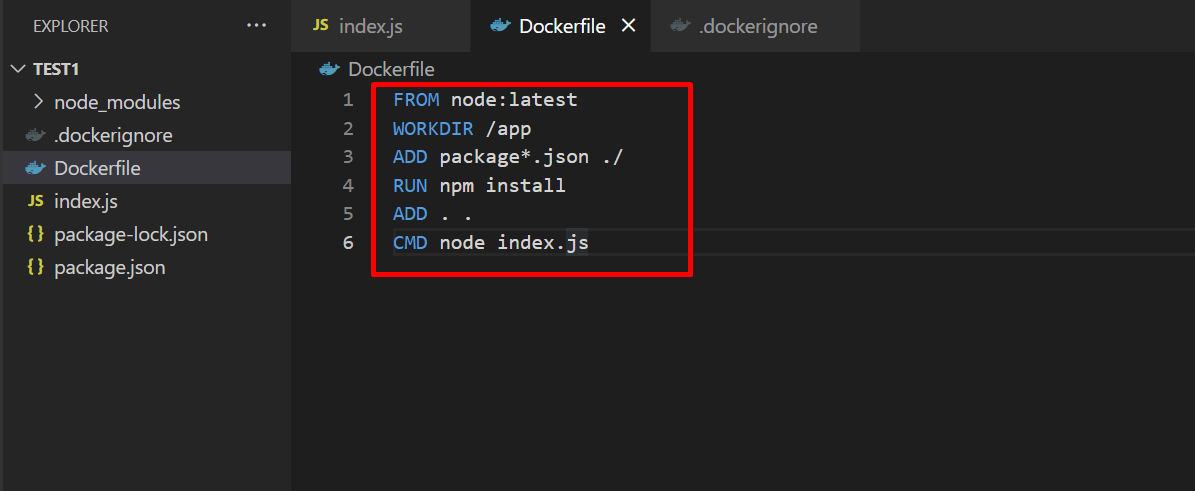


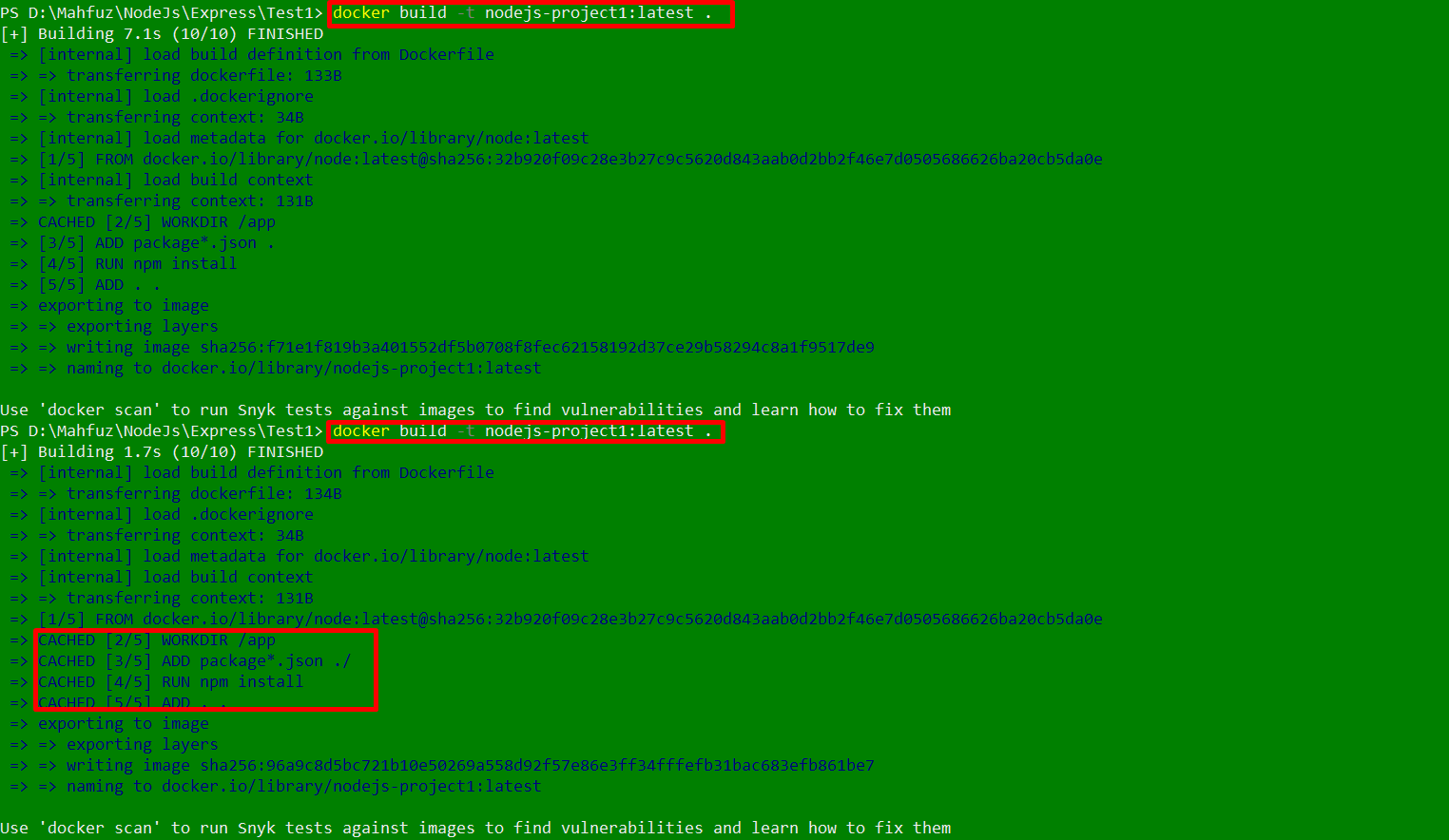
11. Chaching and Layers



After change file content then build image

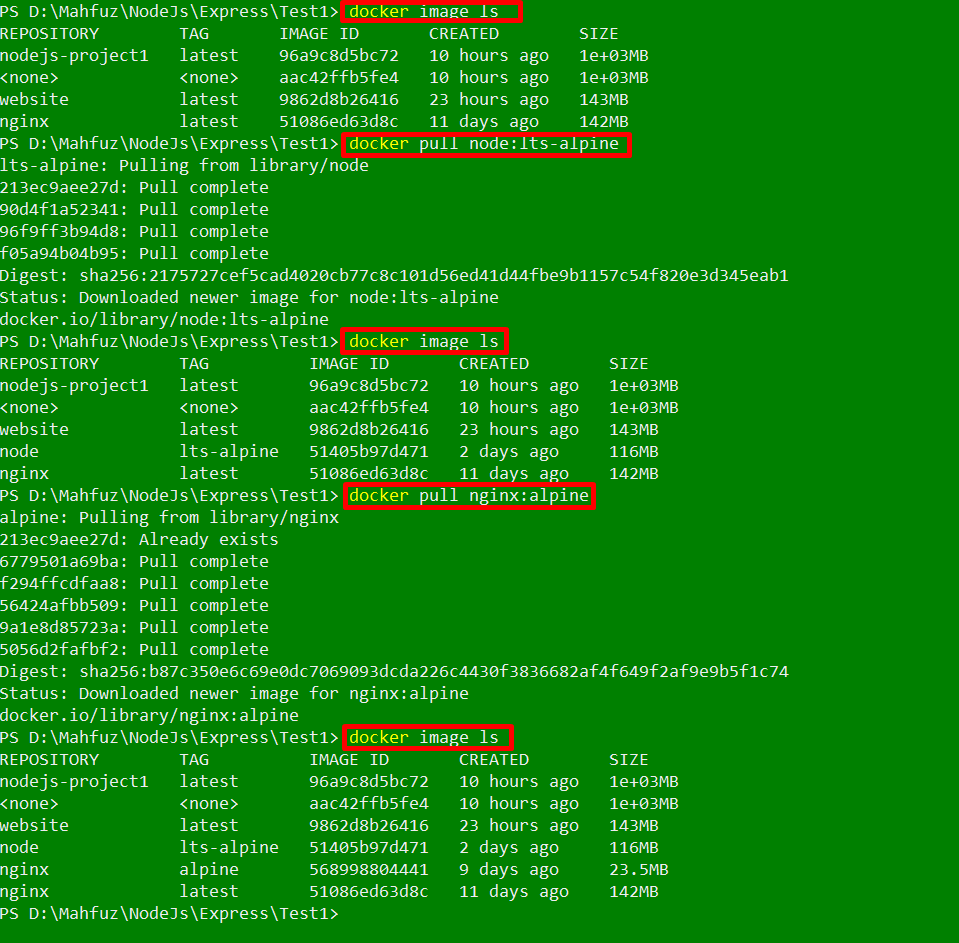


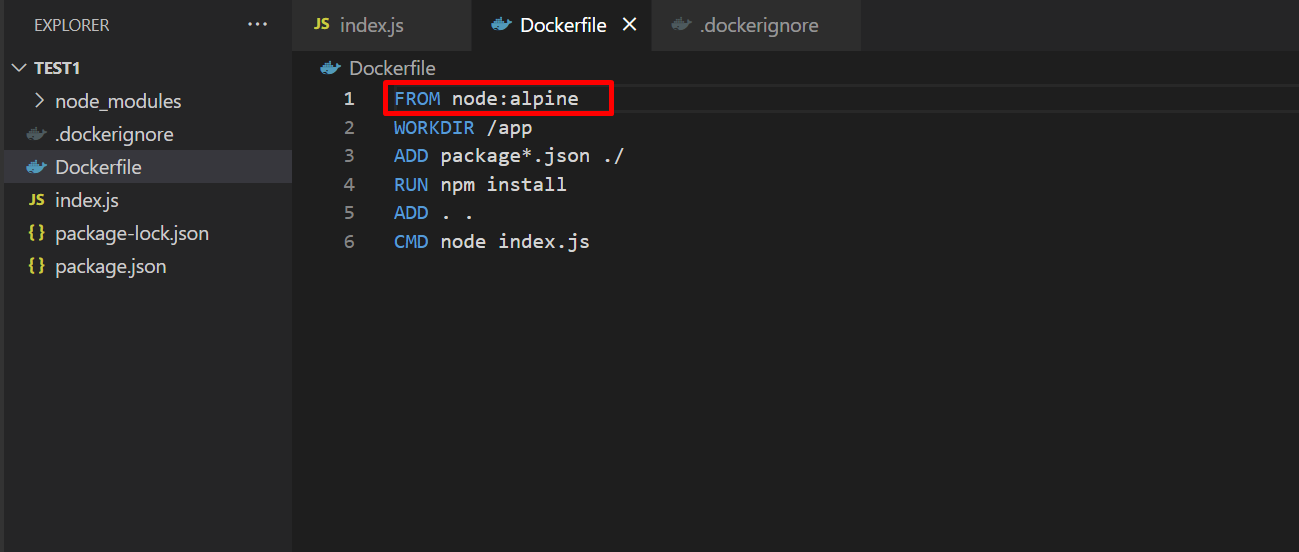


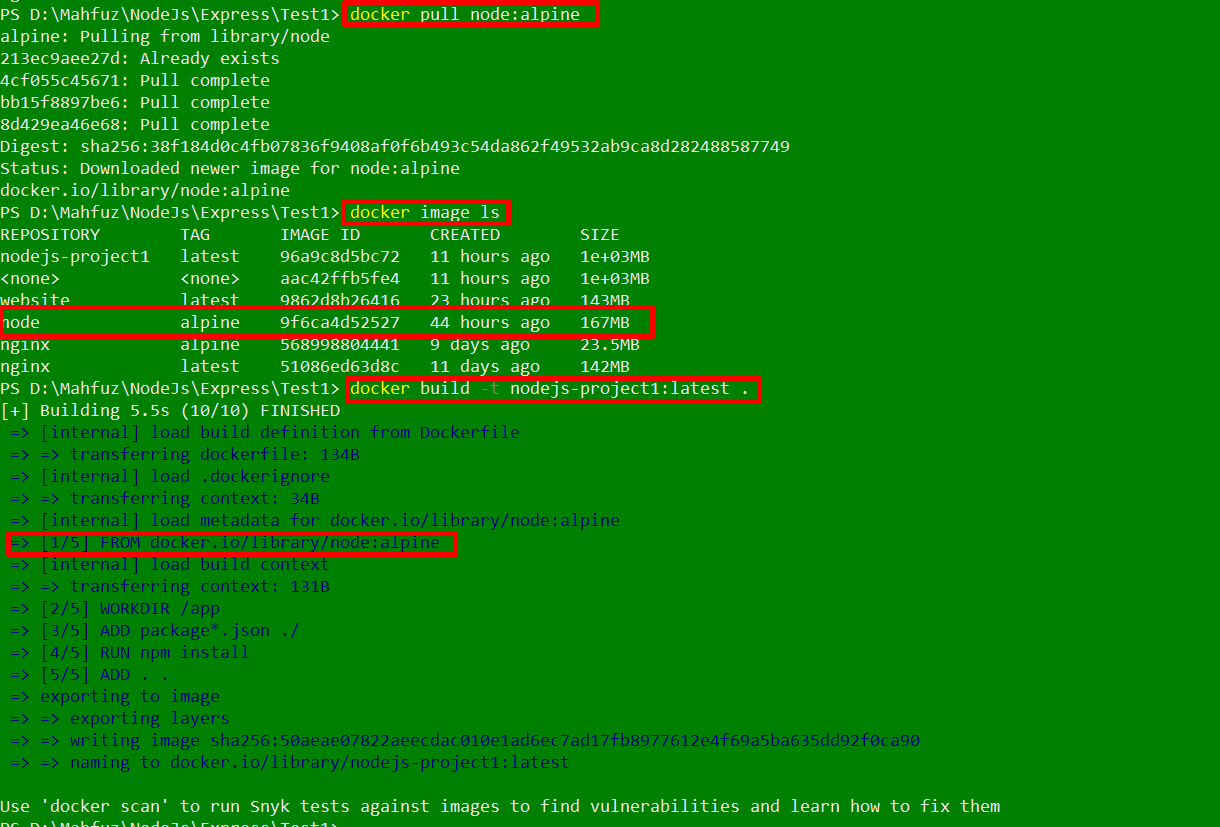


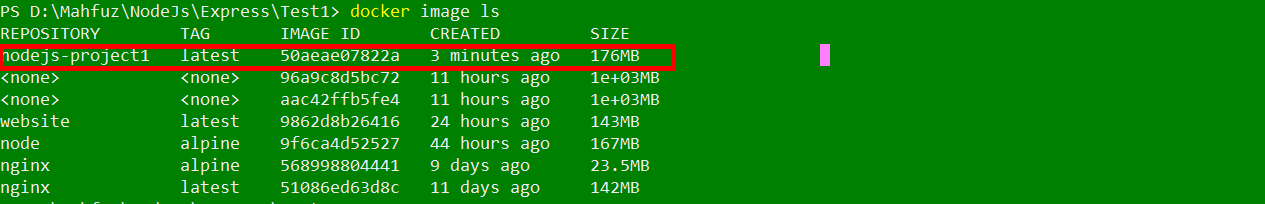
12. Reducing Image Size

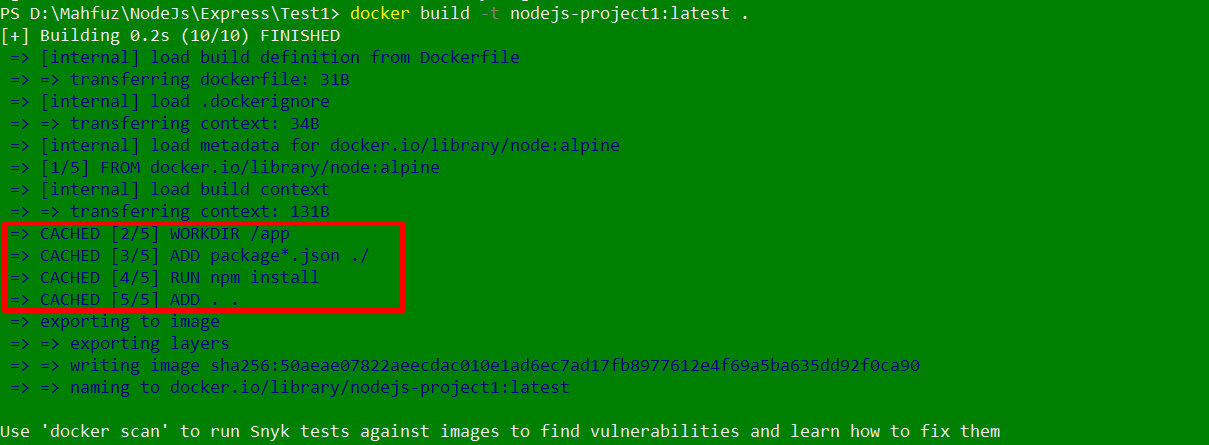
Alpine



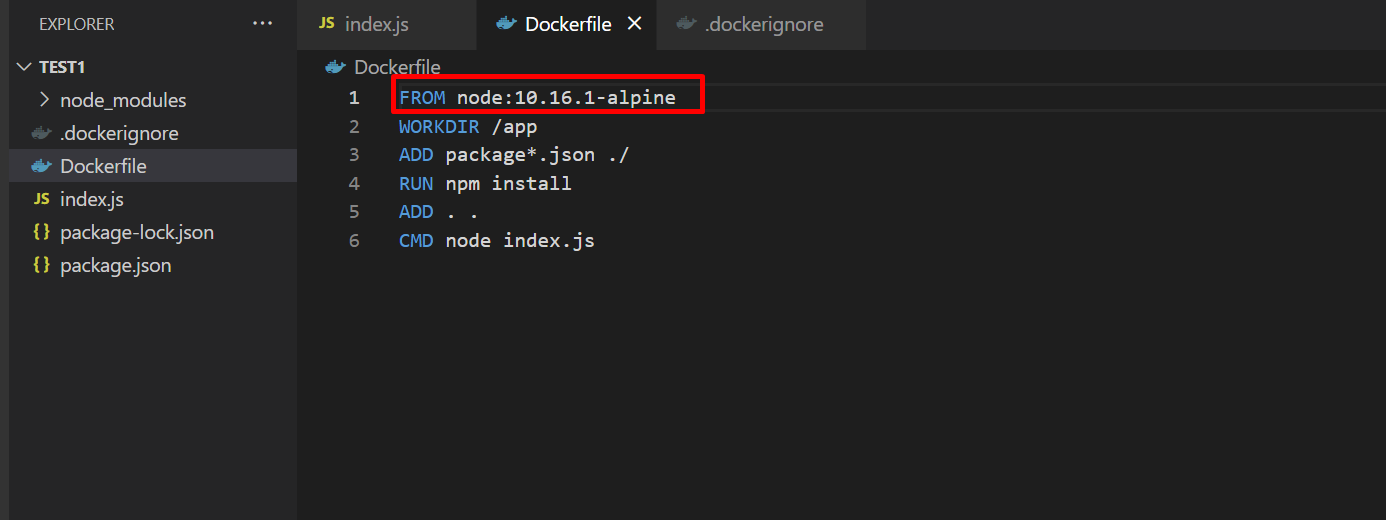


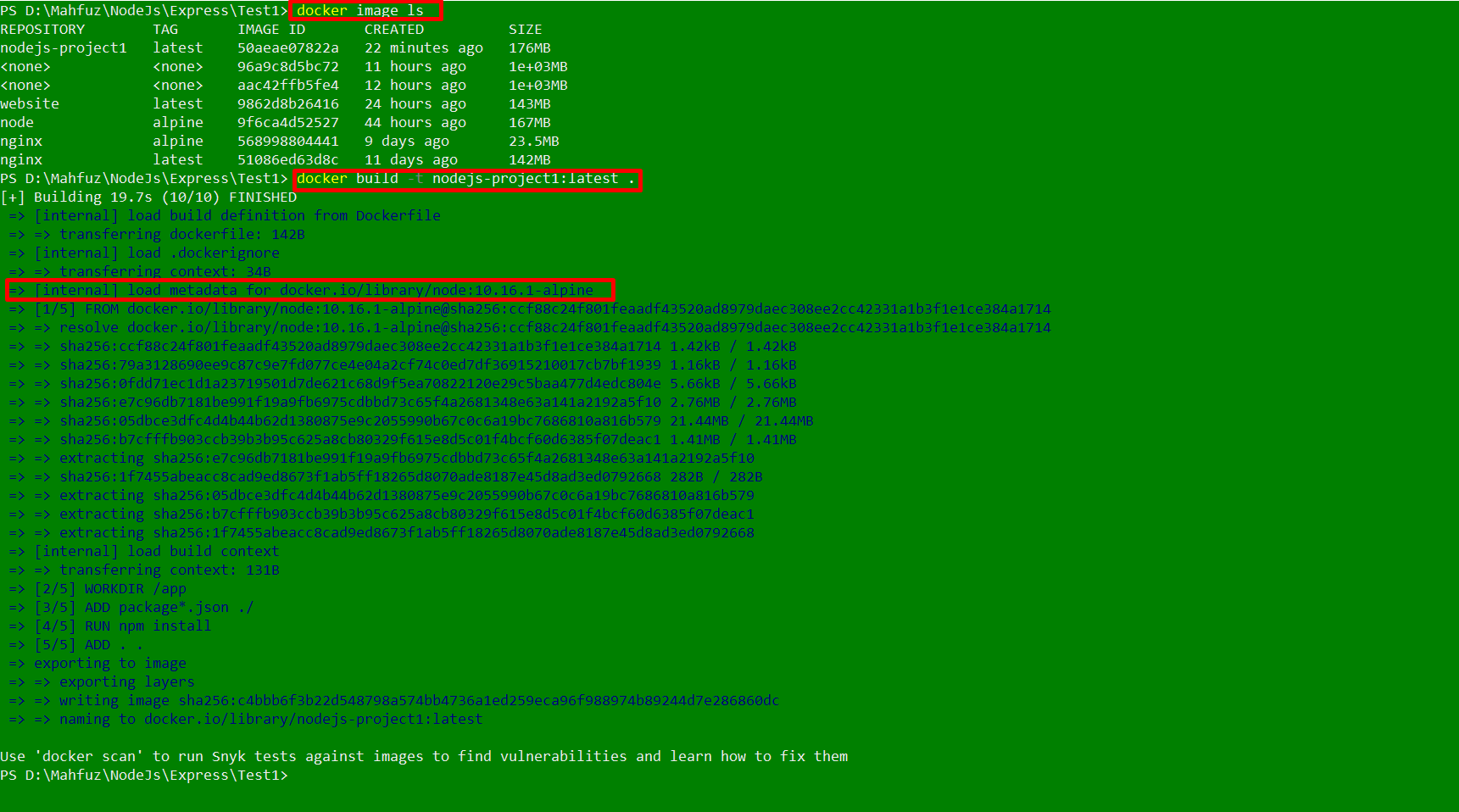


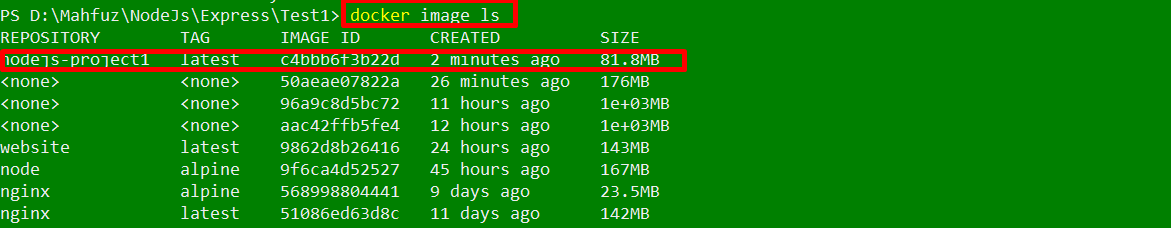




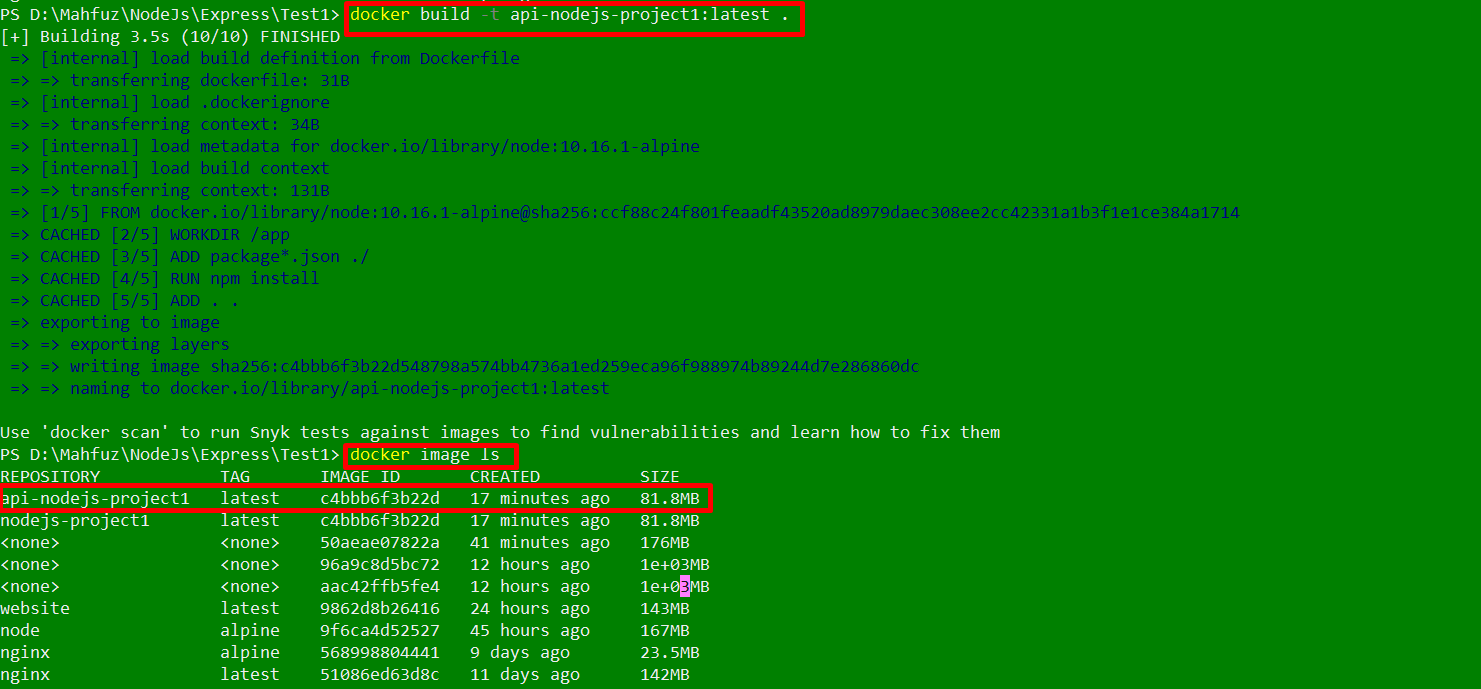
13. Tagging and versioning

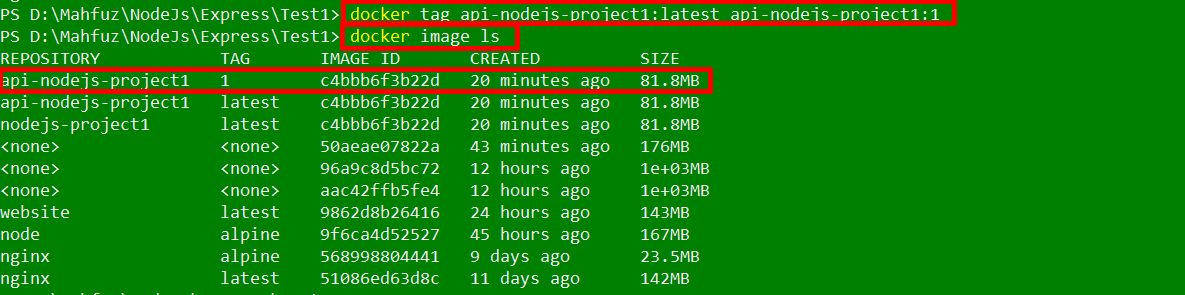




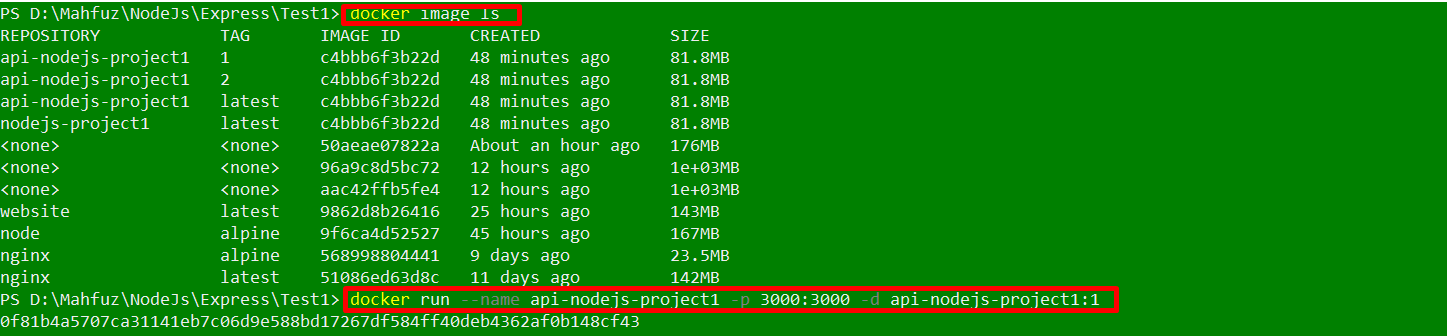


Tagging Images

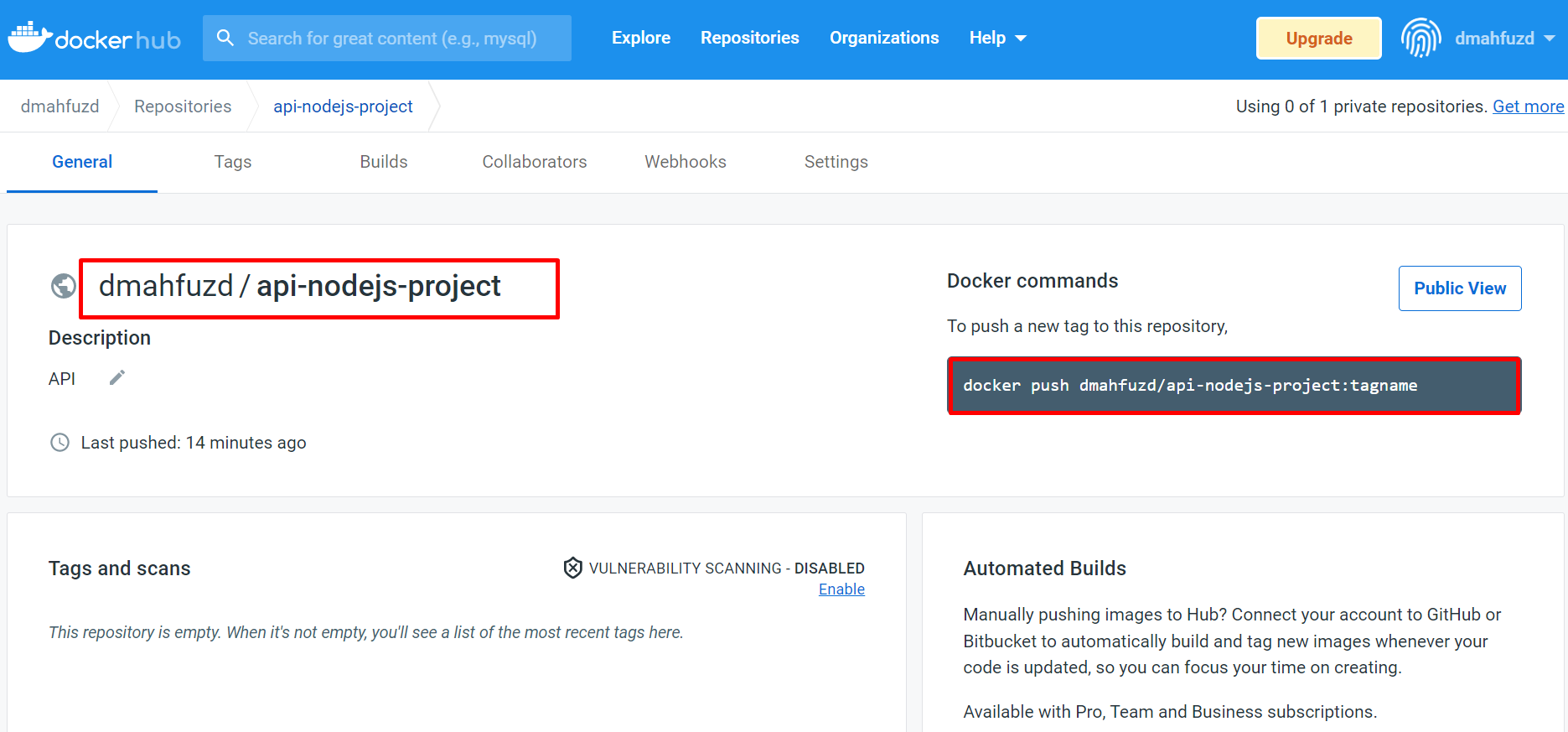


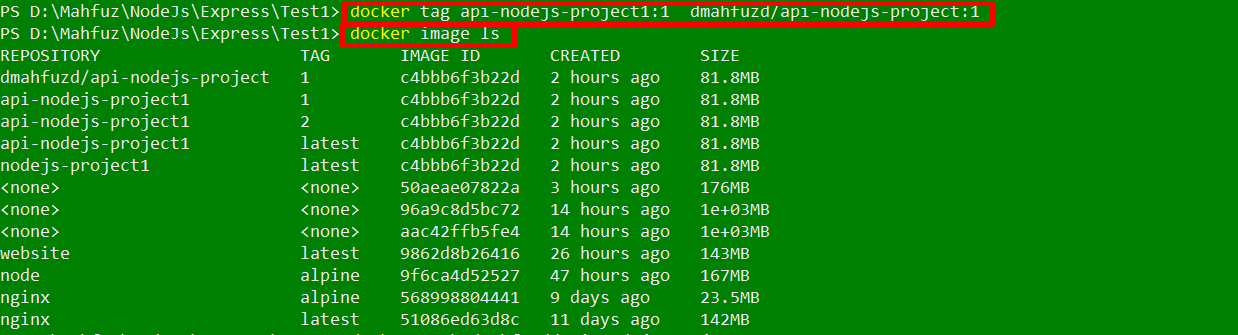


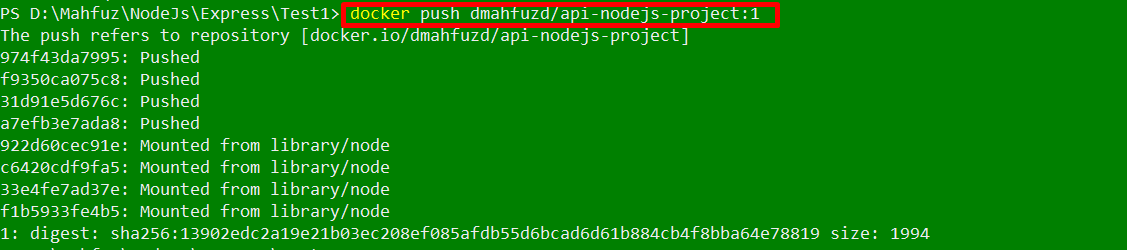
Running containers using tags

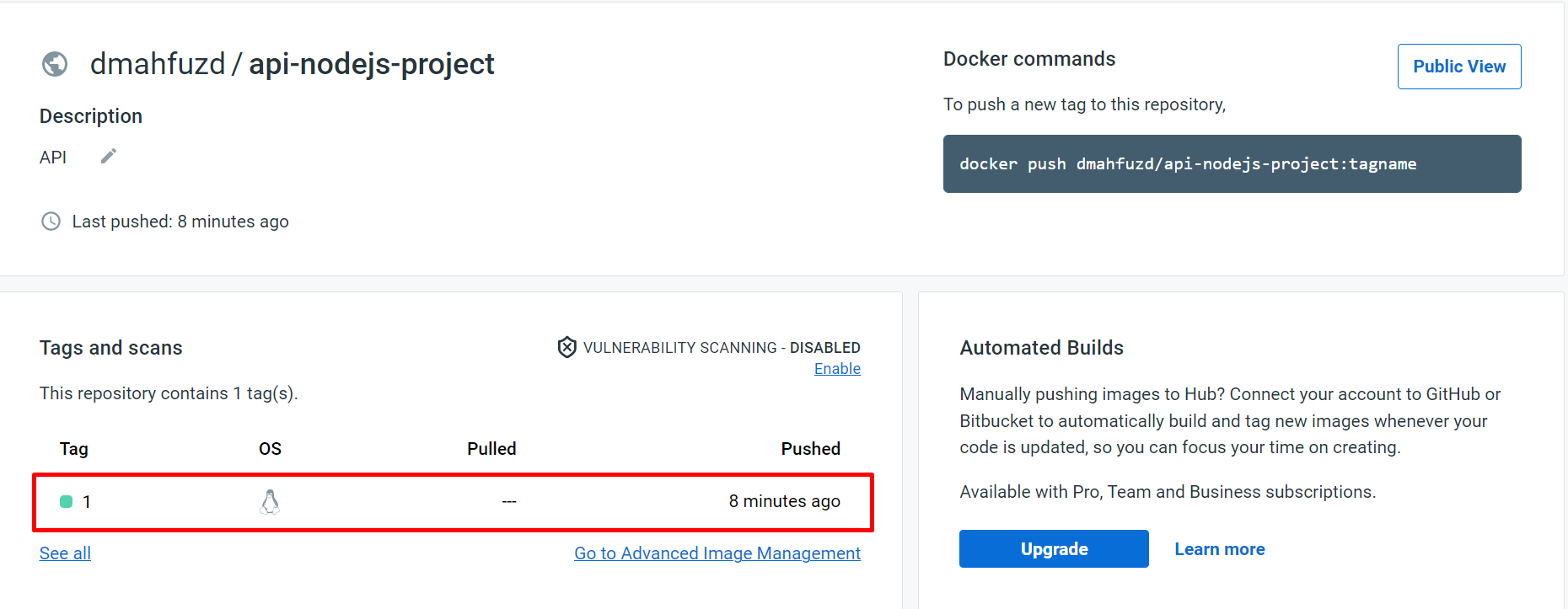


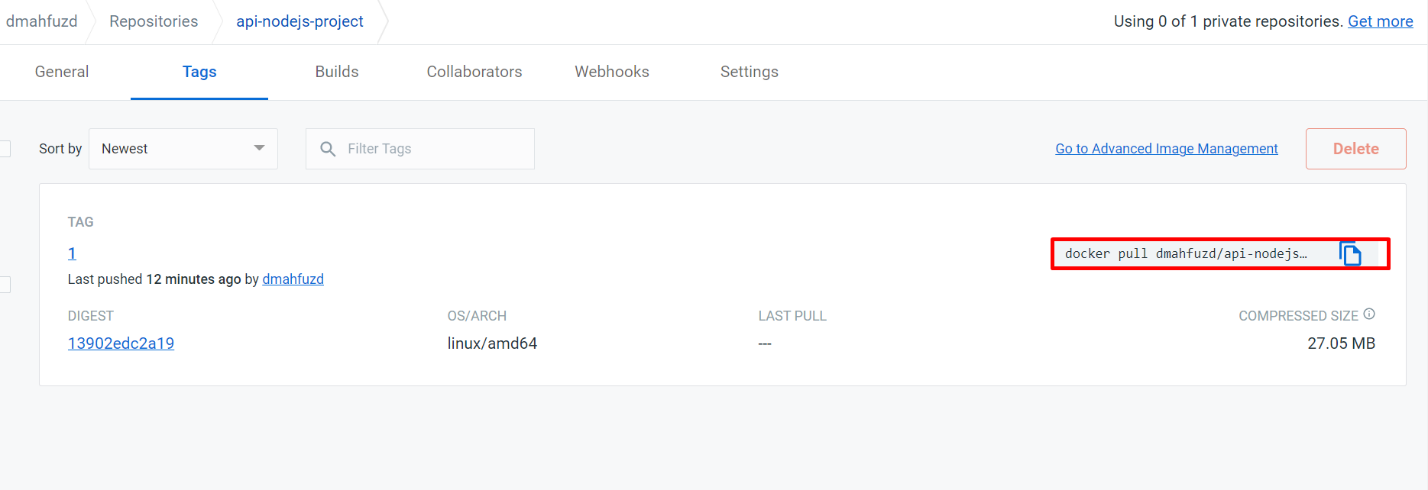
14. Docker Registries

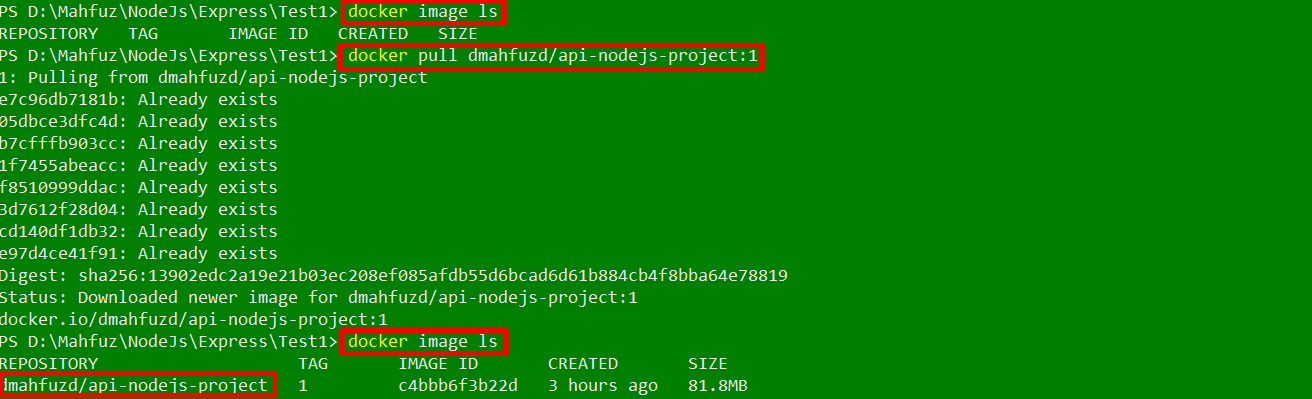


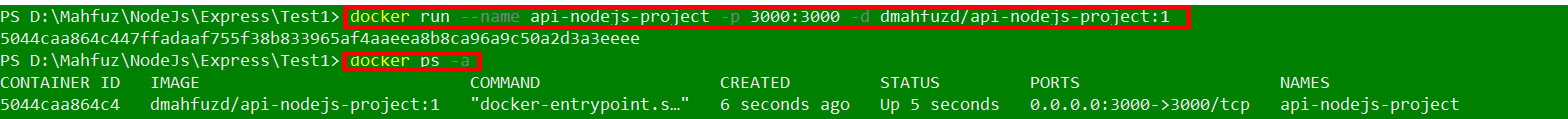






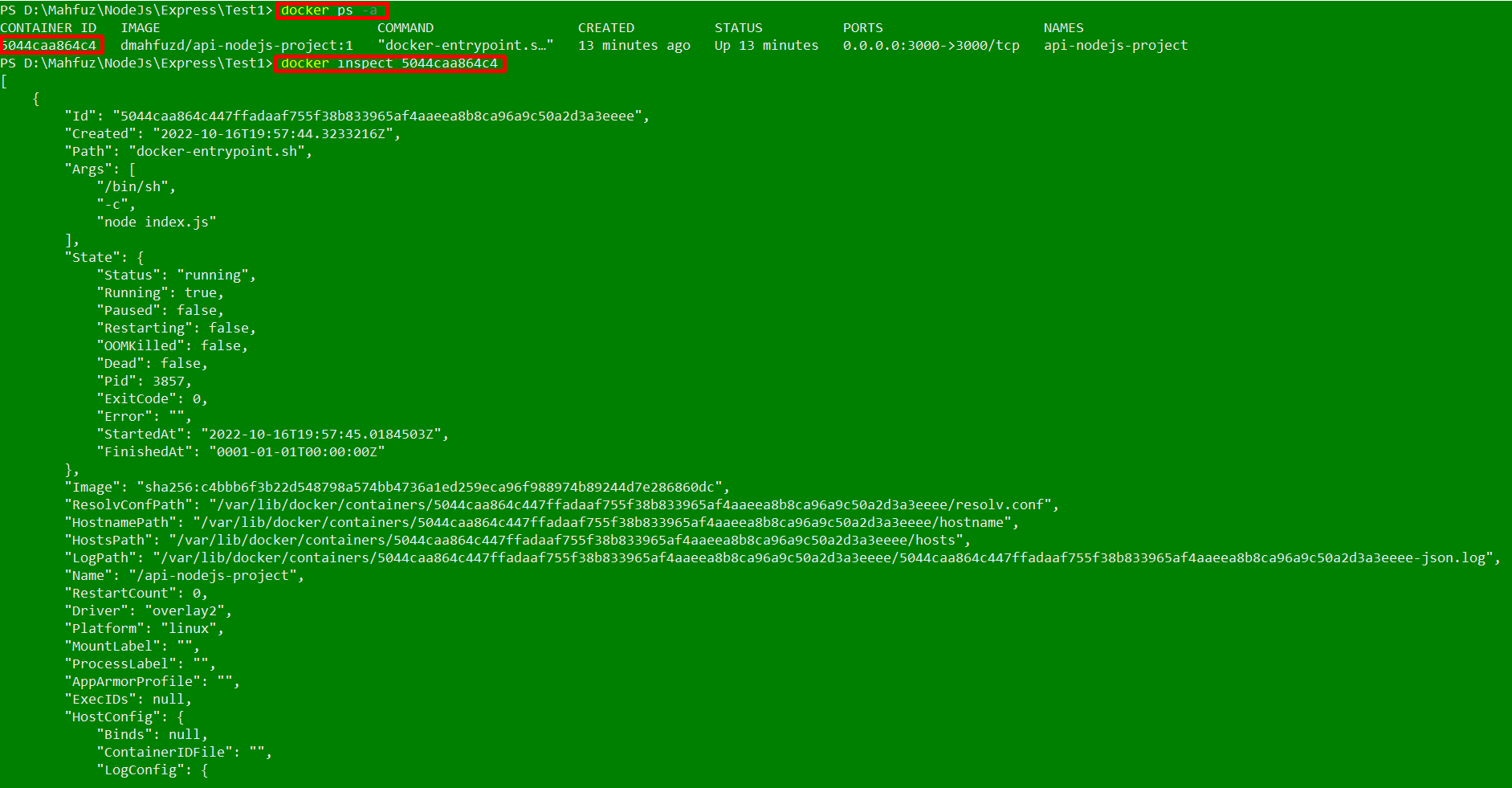




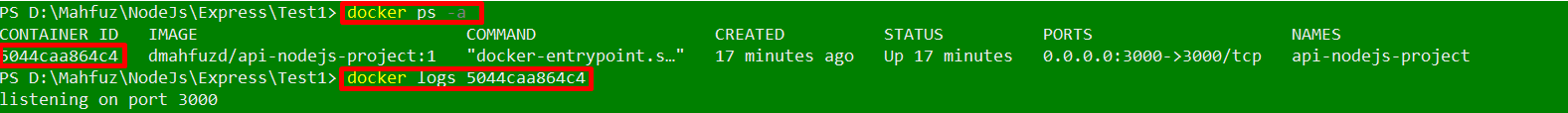


15. Debugging containers

Docker inspect



Docker logs



Bash into containers

