docker ex2

PART 1

volumes and permissions

* take the image that you buid from “docker ex 1” part 1
* create volume with “volume\_demo” name
* run the container with “volume\_demo” that you created and map to /data dir inside the container
* enter the container and add files to /data dir
* stop the container and try to find your files that you created in the host machine
* now try to create container without privilege to create dir “/datatest” inside the container - do it with single command ( runtime or in the dockerfile)
* stop and delete all the containers - singel command

network

* create docker network “network\_demo”
* create container again with “network\_demo”
* create “network\_demo” dir and copy Dockerfile inside that dir and change directory to “network\_demo”
* now run container with “network\_demo” that will listen on nginx on port 8000 - do it with volume to the configuration
* check ping connection by container name (docker dns resolver) between the containers
* stop and delete all the containers - singel command
* remove all the images

docker compose

* create docker-compose.yaml
* run the 2 containers from network section with docker compose (without runnig docker build manully )

PART 2 (optional)

* clone form our [repo](https://github.com/ronhadad22/DevOpsSep22.git) the [10\_docker\_compose](https://github.com/ronhadad22/DevOpsSep22/tree/main/10_docker_compose) dir and run the docker compose
* check that the website function
* change the docker-compose.yaml and make redis write to disk instead the ram on at least 1 write every 60 sec.
* restart the container with docker compose cli
* optional: run the reddis container on different vm and create overlay connection

PODMAN part

* install podman on your machine
* run this commands

sudo bash -c "echo Test > /tmp/test"

sudo chmod 600 /tmp/test

sudo ls -l /tmp/test

* sudo podman run -ti -v /tmp/test:/tmp/test:Z --uidmap 0:100000:5000 fedora sh
* ls -l /tmp/test
* cat /tmp/test

explain what happened and make the program to succeed with “cat /tmp/test”