DevOps Certification Training

Docker Assignment – 4

Data Persistence using Docker Volume

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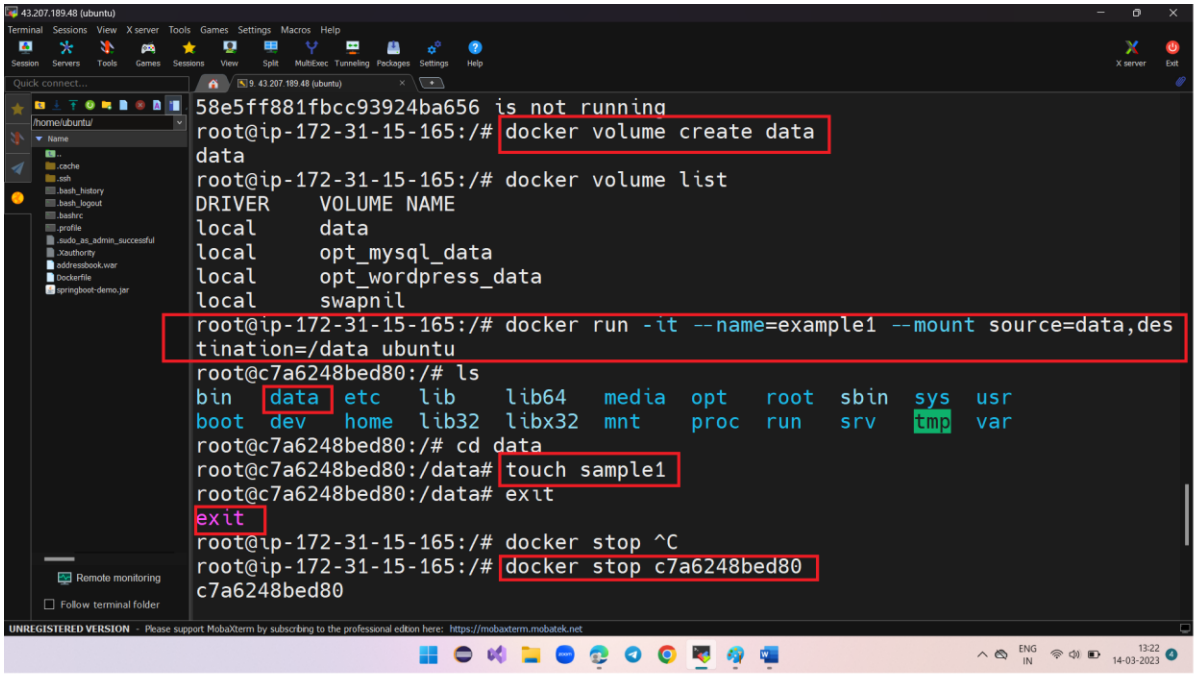
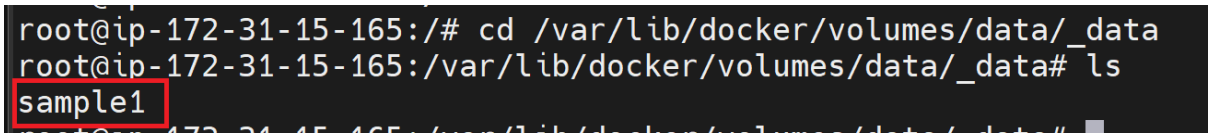
An organization XYZ Private Limited has recently transformed their IT application from Monolithic to Microservice Architecture. The organization has started using Docker as a Containerization technology to deploy their application as containers.

While working with containers, organization has observed that as the containers gets destroyed, the data get lost. After investigation, the organization has figured out that the container data needs to be persisted using Docker Volume.

The organization has request you to implement same. You are required to do following tasks :

1. Create a Docker Volume.
2. Launch an Ubuntu container by mounting the created volume.
3. Attach the terminal to the running ubuntu container.
4. Create some dummy files into the persisted directory.
5. Exit from the Container
6. Stop the container.
7. Verify that the files created in container are available in Docker volume.


58e5ff881fbcc93924ba656 is not running
root@ip-172-31-15-165:/# docker volume create data
data
root@ip-172-31-15-165:/# docker volume list
DRIVER VOLUME NAME
local data
local opt_mysql_data
local opt_wordpress_data
local swapnil
root@ip-172-31-15-165:/# docker run -it --name=example1 --mount source=data,destination=/data ubuntu
root@c7a6248bed80:/# ls
bin data etc lib lib64 media opt root sbin sys usr
boot dev home lib32 libx32 mnt proc run srv tmp var
root@c7a6248bed80:/# cd data
root@c7a6248bed80:/data# touch sample1
root@c7a6248bed80:/data# exit
exit
root@ip-172-31-15-165:/# docker stop ^C
root@ip-172-31-15-165:/# docker stop c7a6248bed80
c7a6248bed80


root@ip-172-31-15-165:/# cd /var/lib/docker/volumes/data/_data
root@ip-172-31-15-165:/var/lib/docker/volumes/data/_data# ls
sample1