Application Containerization Lab CA1

Reg_no: 12221525

Roll_no: 2
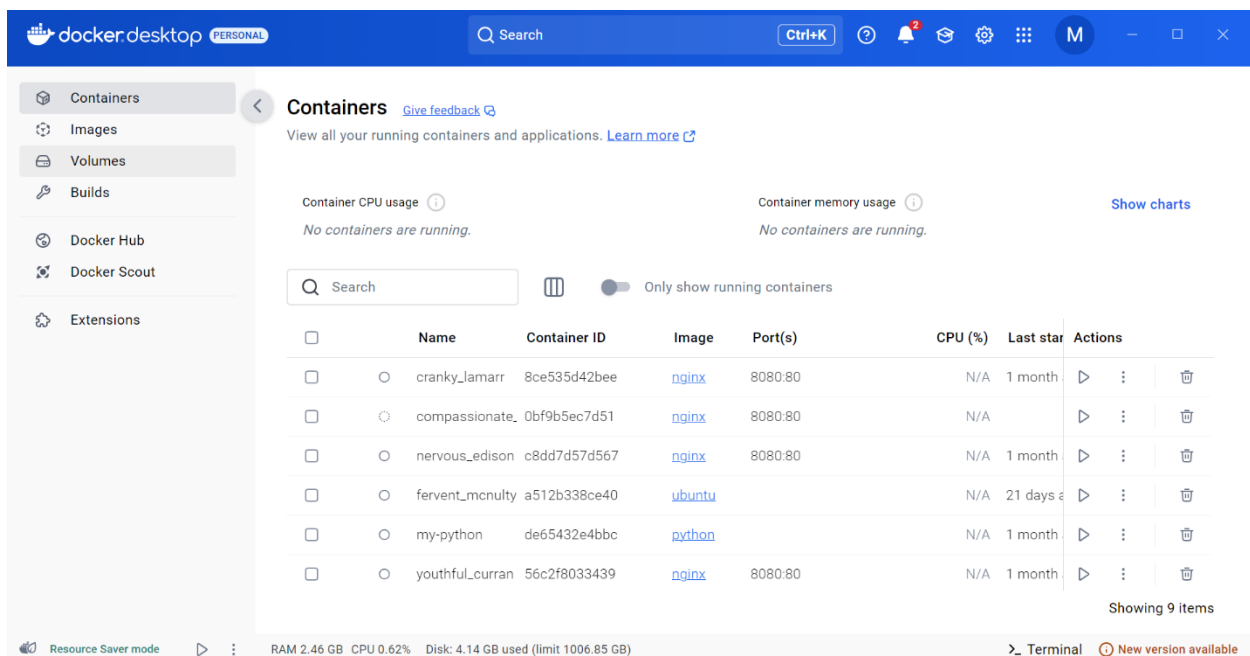
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During installation I had one challenge which is after installation it was not working and next I deleted and installed once again.

```
PS C:\Users\user> docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
f18232174bc9: Download complete
Digest: sha256:a8560b36e8b8210634f77d9f7f9efd7ffa463e380b75e2e74aff4511df3ef88c
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview alpine
PS C:\Users\user> docker images
REPOSITORY                TAG       IMAGE ID       CREATED        SIZE
alpine                    latest    a8560b36e8b8   7 weeks ago    12.1MB
hello-world-eb-docker1    latest    3dec767ccc73   8 weeks ago    193MB
hello-world-eb-docker     latest    fab045efa9ff   8 weeks ago    193MB
nginx                     latest    91734281c0eb   2 months ago   279MB
python                    latest    08471c63c5fd   2 months ago   1.47GB
ubuntu                    latest    72297848456d   2 months ago   117MB
hello-world               latest    e0b569a5163a   2 months ago   20.4kB
```

```
PS C:\Users\user> docker run -it alpine
/ # echo "Hello from inside Alpine!"
Hello from inside Alpine!
/ # apk update
fetch https://dl-cdn.alpinelinux.org/alpine/v3.21/main/x86_64/APKINDEX.tar.gz
fetch https://dl-cdn.alpinelinux.org/alpine/v3.21/community/x86_64/APKINDEX.tar.gz
v3.21.3-294-g2e5a2ba3499 [https://dl-cdn.alpinelinux.org/alpine/v3.21/main]
v3.21.3-278-g701157f6054 [https://dl-cdn.alpinelinux.org/alpine/v3.21/community]
OK: 25395 distinct packages available
/ # apk add curl
(1/9) Installing brotli-libs (1.1.0-r2)
(2/9) Installing c-ares (1.34.3-r0)
(3/9) Installing libunistring (1.2-r0)
(4/9) Installing libidn2 (2.3.7-r0)
(5/9) Installing nghttp2-libs (1.64.0-r0)
(6/9) Installing libpsl (0.21.5-r3)
(7/9) Installing zstd-libs (1.5.6-r2)
(8/9) Installing libcurl (8.12.1-r1)
(9/9) Installing curl (8.12.1-r1)
Executing busybox-1.37.0-r12.trigger
OK: 12 MiB in 24 packages
```

```
PS C:\Users\user> docker stop b646e772d8d59ff0a9006129e1f59c51500a8f493a171ceb70e9e8c871ec0b95
b646e772d8d59ff0a9006129e1f59c51500a8f493a171ceb70e9e8c871ec0b95
PS C:\Users\user> docker rm b646e772d8d59ff0a9006129e1f59c51500a8f493a171ceb70e9e8c871ec0b95
b646e772d8d59ff0a9006129e1f59c51500a8f493a171ceb70e9e8c871ec0b95
```

```
PS C:\Users\user> docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS   PORTS     NAMES
PS C:\Users\user> docker ps -a
CONTAINER ID   IMAGE                    COMMAND                 CREATED       STATUS                   PORTS
          NAMES
8ce535d42bee   nginx                    "/docker-entrypoint.…"  6 weeks ago   Exited (255) 6 weeks ago  0.0.0.0:8080->
80/tcp    cranky_lamarr
0bf9b5ec7d51   nginx                    "/docker-entrypoint.…"  6 weeks ago   Created
          compassionate_keller
c8dd7d57d567   nginx                    "/docker-entrypoint.…"  6 weeks ago   Exited (0) 6 weeks ago
          nervous_edison
a512b338ce40   ubuntu                   "/bin/bash"             6 weeks ago   Exited (137) 3 weeks ago
          fervent_mcnulty
de65432e4bbc   python                   "python3"               6 weeks ago   Exited (137) 6 weeks ago
          my-python
56c2f8033439   nginx                    "/docker-entrypoint.…"  6 weeks ago   Exited (0) 6 weeks ago
          youthful_curran
abfd4be24c7f   hello-world              "/hello"                6 weeks ago   Exited (0) 6 weeks ago
          elegant_satoshi
0be4fd2f2ae5   hello-world-eb-docker1   "docker-entrypoint.s…"  8 weeks ago   Exited (128) 8 weeks ago
          unruffled_galileo
fbcb107d1f12   hello-world-eb-docker    "docker-entrypoint.s…"  8 weeks ago   Exited (255) 6 weeks ago  0.0.0.0:3000->
3000/tcp  quizzical_goldstine
```

```
PS C:\Users\user> docker inspect a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3
[
    {
        "Id": "a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3",
        "Created": "2025-02-25T08:51:26.783313264Z",
        "Path": "/bin/bash",
        "Args": [],
        "State": {
            "Status": "exited",
            "Running": false,
            "Paused": false,
            "Restarting": false,
            "OOMKilled": false,
            "Dead": false,
            "Pid": 0,
            "ExitCode": 137,
            "Error": "",
            "StartedAt": "2025-03-18T09:21:19.467835034Z",
            "FinishedAt": "2025-03-18T09:21:40.451800786Z"
        },
        "Image": "sha256:72297848456d5d37d1262630108ab308d3e9ec7ed1c3286a32fe09856619a782",
        "ResolvConfPath": "/var/lib/docker/containers/a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3/resolv.conf",
        "HostnamePath": "/var/lib/docker/containers/a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3/hostname",
        "HostsPath": "/var/lib/docker/containers/a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3/hosts",
        "LogPath": "/var/lib/docker/containers/a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3/a512b338ce407b6a68e40c2c1fed722b7c57798ba2dd0869983d08742573abc3-json.log",
```

```
PS C:\Users\user> docker rm abfd4be24c7f13ee98208be99365956cdbd265a04339ed0af2746738efab6a7c
abfd4be24c7f13ee98208be99365956cdbd265a04339ed0af2746738efab6a7c
PS C:\Users\user> docker rmi sha256:e0b569a5163a5e6be84e210a2587e7d447e08f87a0e90798363fa44a0464a1e8
Untagged: hello-world:latest
Deleted: sha256:e0b569a5163a5e6be84e210a2587e7d447e08f87a0e90798363fa44a0464a1e8
```

docker container prune

docker image prune

Both are deleting all containers and images.