



Experiment No. 3.3

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Branch: MCA - CCD Section/Group: 22MCD-1/ Grp B

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Subject Name: Containerization With Docker Subject Code: 22CAH-742

1. Aim/Overview of the practical: Cleaning Up Old Containers and Docker Images.

2. Code for experiment/practical:

To clean up old containers and Docker images, you can use the following commands:

- docker container prune: Removes all stopped containers.
- docker image prune: Removes all dangling images.
- docker system prune: Removes all unused images, containers, volumes, and networks.

Important: Be careful when using the system prune command, as it can remove all unused resources, including volumes. If you are unsure about what will be removed, you can use the -a flag to display all resources that will be removed before confirming the operation.

Cleaning up Old Container:

• First check container that are available: \$docker ps -a

PS C:\Users\Pinda> docker ps -a										
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES				
d2682aeb8e7f	mysql	"docker-entrypoint.s"	16 seconds ago	Exited (1) 13 seconds ago		focused_vaughan				
141cd4ee32cb	python	"python3"	19 seconds ago	Exited (0) 17 seconds ago		elated_easley				
33e0f54e1cd0	ubuntu	"/bin/bash"	24 seconds ago	Exited (0) 23 seconds ago		blissful_thompson				

- Then use docker container prune to clean up old container: \$docker container prune
 - o Their will be WARNING that This will remove all stopped containers.
 - Are you sure you want to continue? [y/N]
 - Press Y for yes else N, then Enter.

```
PS C:\Users\Pinda> docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
d2682aeb8e7f82eb11f6d81d176c55cff6d78754bce4b1f50f58c500da57f7ae
141cd4ee32cb7d98e2ac5dd3e61780bbc7f90ce0df2077e23a092e79577afba8
33e0f54e1cd090b990a29d15acd5947966c3699082e0a8d321e31d42cb7efef2
Total reclaimed space: 30.37kB
```





Cleaning up Old Images:

First check images that are available: \$docker images

PS C:\Users\Pinda> docker images									
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE					
nginx	latest	c20060033e06	4 days ago	187MB					
localhost:5000/nginx1	latest	c20060033e06	4 days ago	187MB					
registry	2	ff1857193a0b	2 weeks ago	25.4MB					
registry	latest	ff1857193a0b	2 weeks ago	25.4MB					
ubuntu	latest	e4c58958181a	4 weeks ago	77.8MB					
python	latest	3c055746a2cc	4 weeks ago	1.02GB					
mysql	latest	2d9aad1b5856	3 months ago	574MB					
openjdk	latest	71260f256d19	8 months ago	470MB					

- Then use docker image prune to clean up old dangling images: \$docker image prune
 - o Their will be WARNING that This will remove all dangling images.
 - Are you sure you want to continue? [y/N]
 - Press Y for yes else N, then Enter.

```
PS C:\Users\Pinda> docker image prune
WARNING! This will remove all dangling images.
Are you sure you want to continue? [y/N] y
Total reclaimed space: 0B
```

- Then use docker image prune to clean up all available images: \$docker image prune -a
 - Their will be WARNING that This will remove all images.
 - Are you sure you want to continue? [y/N]
 - Press Y for yes else N, then Enter.

```
PS C:\Users\Pinda> docker image prune -a
WARNING! This will remove all images without at least one container associated to them.
Are you sure you want to continue? [y/N] y
Deleted Images:
untagged: ubuntu:latest
untagged: ubuntu@sha256:2b7412e6465c3c7fc5bb21d3e6f1917c167358449fecac8176c6e496e5c1f05f
deleted: sha256:e4c58958181a5925816faa528ce959e487632f4cfd192f8132f71b32df2744b4
deleted: sha256:256d88da41857db513b95b50ba9a9b28491b58c954e25477d5dad8abb465430b
```

3. Learning outcomes (What I have learned):

- a) Understand the Docker Prune command.
- b) Understand to run prune command with images and container.
- c) Understand to free up the space by pruning the unnecessary data or storage.