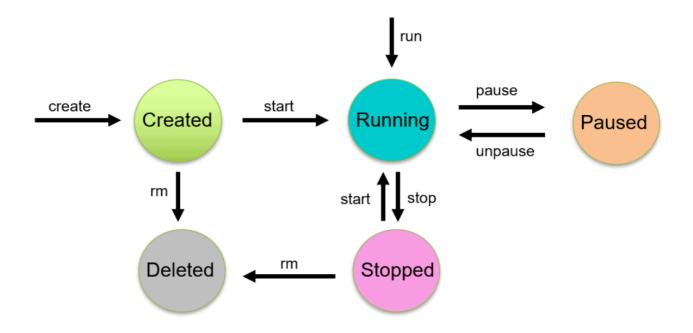
Containers contd

Images and Tags

- Every docker image has a tag (represents the version)
- if the tag is not provided, default tag would be latest
- image name <repository>:<tag>

Container lifecycle states

Overview

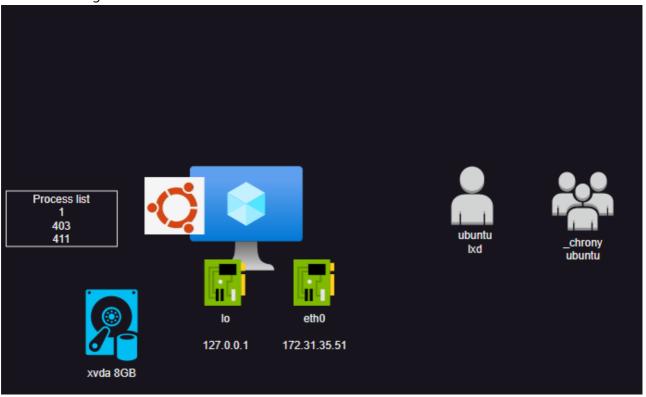


refer classroom video for commands execute

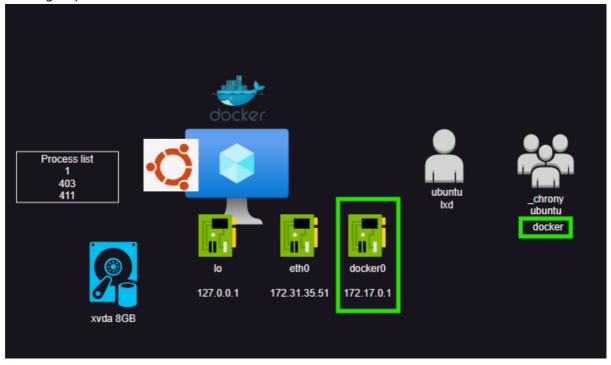
```
docker container --help
or
cheatsheet
```

Docker installation effects

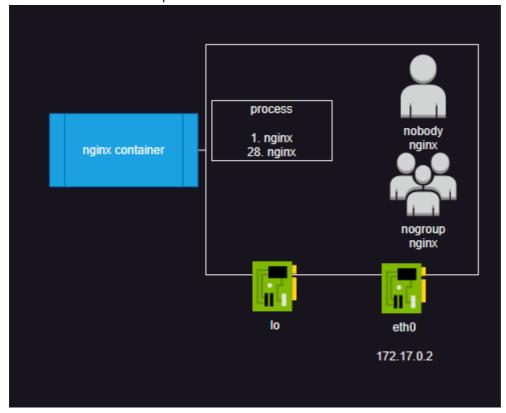
• Before installing docker on ubuntu server



- Install docker lead to creation of
 - o a new network interface docker0
 - o a new group docker



• Lets run a container and peek into container



- inside container, we have
 - o root folder with all necessary files to run the application
 - o network interfaces with ip address
 - o process tree (pid 1: This is generally your application start command)
 - o users and groups specific to application
- Container is an isolated area which gets its own
 - o network interface
 - o file system
 - o users
 - o groups
 - o resources
 - vcpu
 - RAM
- Containers are created with the help of core linux concepts called as
 - o namespaces
 - o cgroups
- Container starts only one process i.e. your application and will be in running state as long as that process lasts

Exercise

• Either in docker playground or by installing docker on a linux vm in aws/azure, try executing all the states in docker container lifecycle by using the image httpd

• ensure docker container 1s before changing state.