



**Ajay Patel**

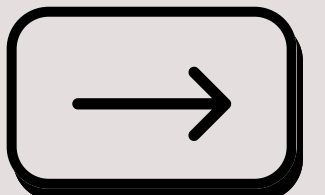
♥**NET**



**Docker Image**

**Vs**

**Docker Container**





## DOCKER

### Images

### Containers



Templates for containers



Contains code, dependencies, runtime



Layer-based, read-only.



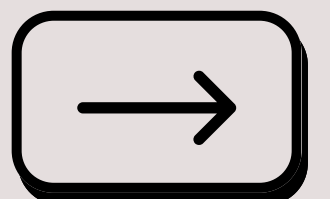
The running instance of Image.



Multiple container can be created based on one image.

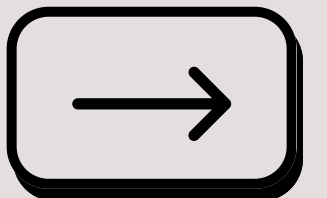
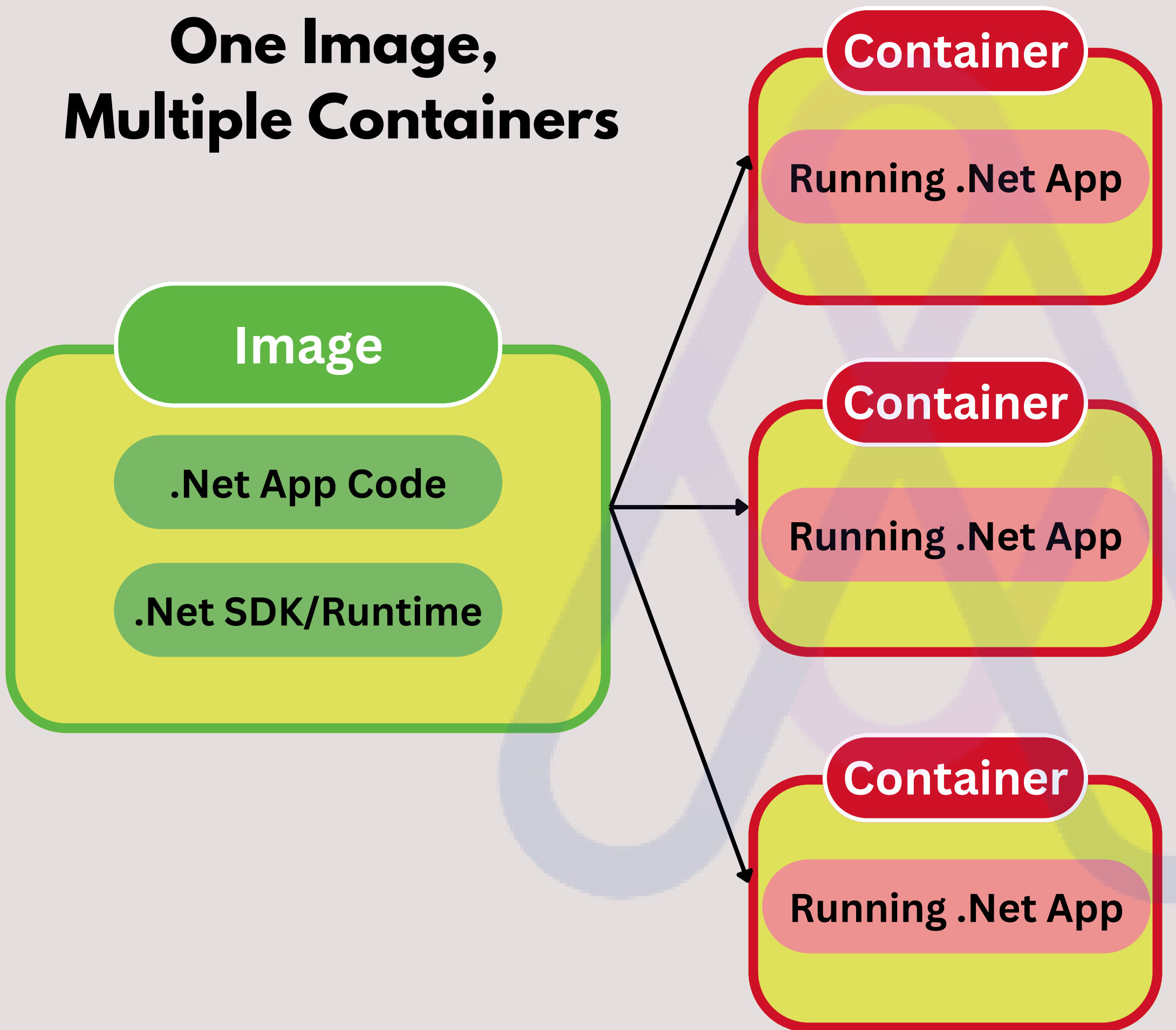


Read and Write access. Data is lost on shutdown.





## One Image, Multiple Containers





## How to get an Image?

**Use an existing, pre-built image**

**Create your custom image**

### **From**



Docker Hub



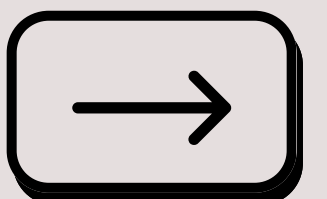
Microsoft Container Registry



Other private registry



Write your own Dockerfile





1

## Downloading Images:

The docker pull command is used to download an image from the repository so that it is available locally.

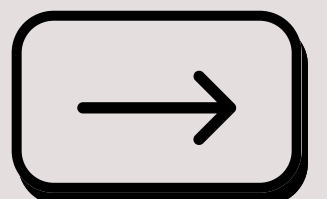
**docker pull imagename:tag**

**ex: docker pull node**

if you don't specify tag, it will pull latest image.

**docker run imagename:tag**

docker run download an image from repository if it is not available locally and create and start the container.





2

## Create custom Image:

**docker build -t name:tag .**

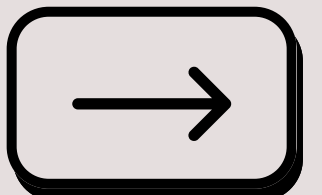
### Dockerfile

ENTRYPOINT ["dotnet", "example.dll"]

COPY ..

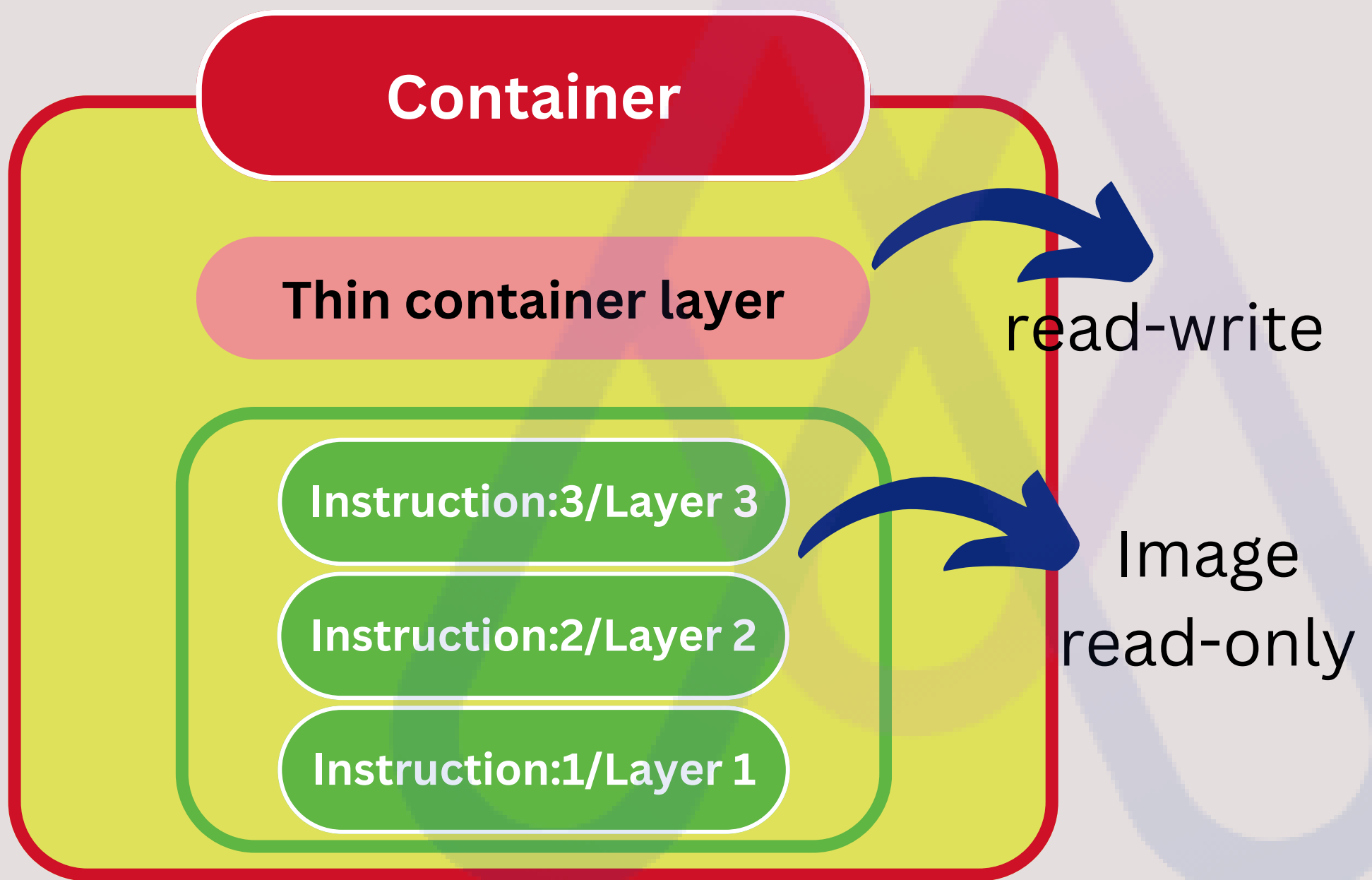
WORKDIR /app

Base image from docker hub/ microsoft  
registry

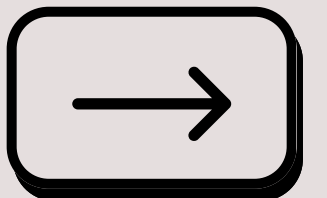




## Container based on Image



**docker run imagename:tag**



A circular profile picture of a man with dark hair and a blue shirt, set against a dark background. The photo is framed by a blue and purple geometric logo consisting of three interlocking loops.

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8

## Key Commands for image:

**Build an image:** `docker build -t name:tag .`

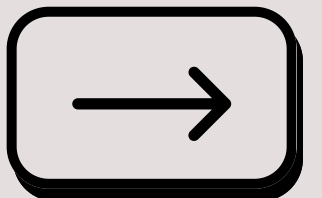
**Inspect an image:** `docker inspect name/id`

**Remove an image:** `docker rmi name/id`

**Remove all images:** `docker image prune`

**Pull an image:** `docker pull name:tag`

**NOTE:** `docker image prune` will remove only untagged images. If you want to remove tagged images as well add `-a` with command.

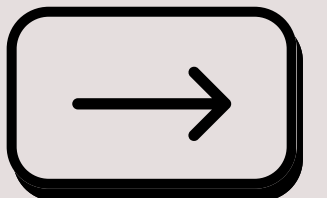






## Key Commands for container:

- **docker create imagename:** Create new container.
- **docker run imagename:** Create and start new container based on image.
- **docker stop containername:** Stop a running container.
- **docker start containername:** Start a stopped container.
- **docker rm containername:** Remove specified container.
- **docker container prune:** Remove all containers.





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**Knowledge is  
contagious,  
let's spread it!**



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