Unit 2

Working with Images and Containers
Review

Business
Training

1

Docker registries

- **A registry is a storage and content delivery system, holding named Docker images, available in different tagged versions.**

- **Example of Cloud registries**
  - **Docker Hub** is the public registry managed by the Docker project.
  - Other Registries are available
    - Google Cloud Docker Registry
    - Azure Cloud Registry
    - AWS Registry
    - Quay Registry (RedHat)

- **We can set up our local registry**
  - Spin Up a container with the registry image !

2

2

Images commands

- **Registry commands**
  - docker search
  - docker pull/ push

- **Backup Commands**
  - docker save/load

- **Tagging**
  - docker tag

- **Listing**
  - docker image ls (docker images)
  - docker image inspect

- **Removing**
  - docker image rm (docker rmi)

- **Commit a container into an image**
  - docker commit

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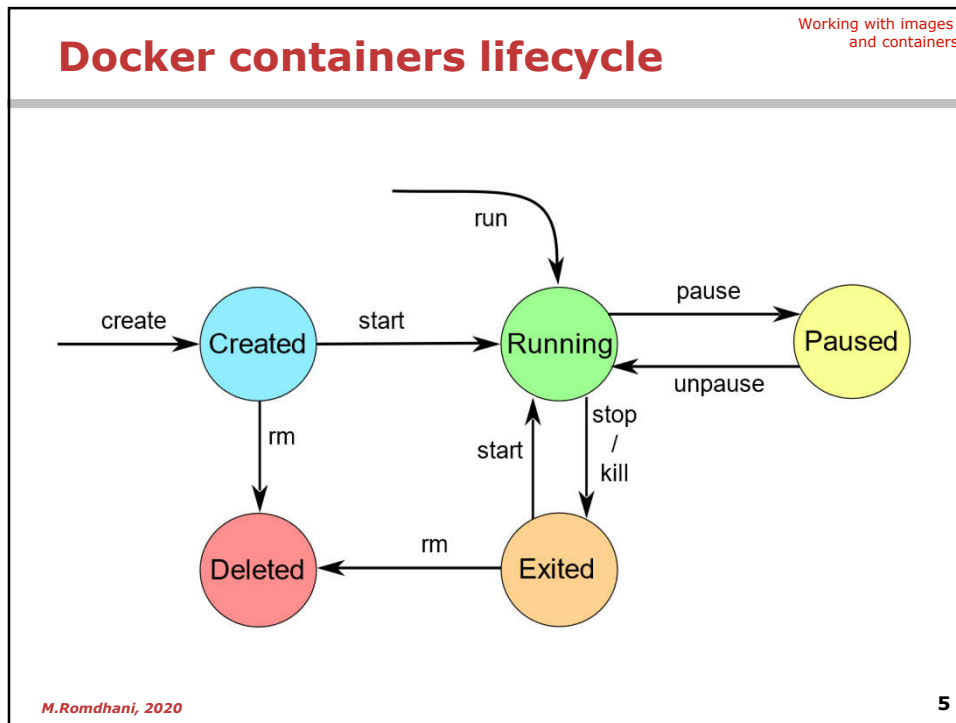
3

3

Dangling vs. Unused image

- **A dangling image is an image has no tag**
  - To delete dangling images
    - **docker image prune**
    - **docker rmi $(sudo docker images -f "dangling=true" -q)**

- **An unused image is an image that is not referenced by any container (including stopped containers)**
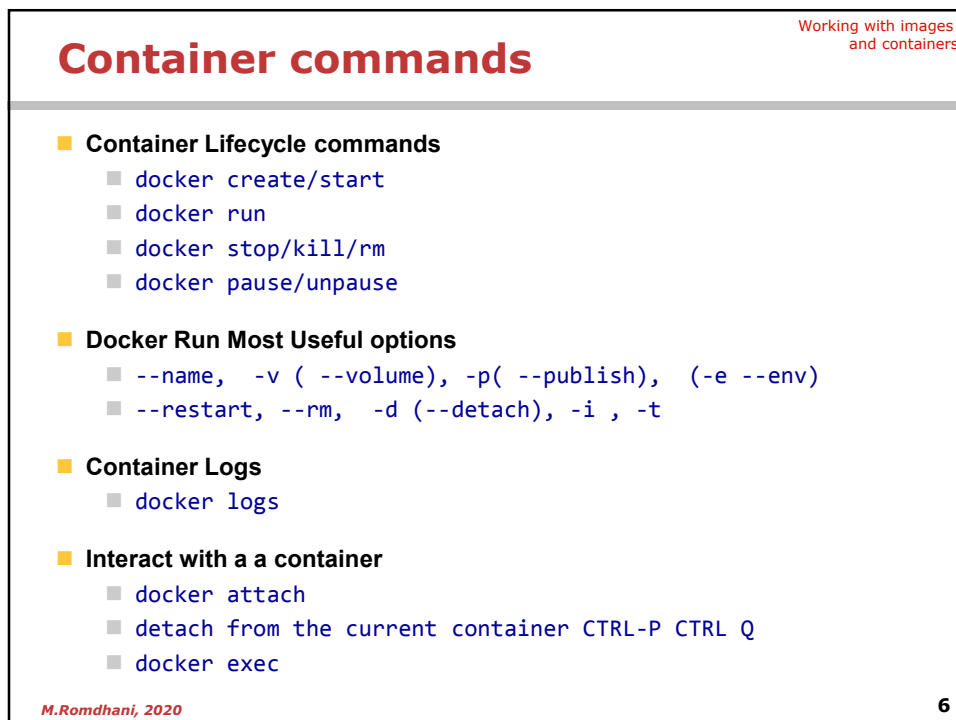 - To delete unused images and dangling images
    - **docker image prune -a**

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4

4

2

Docker containers lifecycle

5

Container commands

- **Container Lifecycle commands**
    - docker create/start
    - docker run
    - docker stop/kill/rm
    - docker pause/unpause

- **Docker Run Most Useful options**
    - --name, -v (--volume), -p(--publish), (-e --env)
    - --restart, --rm, -d (--detach), -i , -t

- **Container Logs**
    - docker logs

- **Interact with a a container**
    - docker attach
    - detach from the current container CTRL-P CTRL Q
    - docker exec

6