CONTAINER ORCHESTRATION AND INFRASTRUCTURE AUTOMATION LAB

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BATCH- 05

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Docker Commands

Open Command Prompt and Docker Desktop

1. docker run:

   - Description: Create and start a new container based on an image.

   - Example (Detached Mode): docker run -d --name my-container my-image

   - Example (Interactive Mode): docker run -it --name my-container my-image

2. docker create:

   - Description: Create a new container but do not start it. It's often followed by a docker start command to launch the container.

   - Example: docker create --name my-container my-image

3. docker build:

   - Description: Build a Docker image from a Dockerfile.

   - Example: docker build -t my-image .

4. docker pull:

   - Description: Download a Docker image from a registry.

   - Example: docker pull nginx

5. docker push:

   - Description: Push a Docker image to a registry (requires authentication).

   - Example: docker push my-image

6. docker ps:

   - Description: List all running containers.

   - Example: docker ps

7. docker ps -a:

   - Description: List all containers, including stopped ones.

   - Example: docker ps -a

8. docker exec:

   - Description: Run a command inside a running container.

   - Example: docker exec -it my-container bash

9. docker stop:

 - Description: Stop a running container.

 - Example: docker stop my-container

10. docker start:

 - Description: Start a stopped container.

 - Example: docker start my-container

11. docker rm:

 - Description: Remove a stopped container.

 - Example: docker rm my-container

12. docker rm -f:

 - Description: Forcefully remove a running or stopped container.

 - Example: docker rm -f my-container

13. docker kill:

 - Description: Forcefully stop a running container by sending a signal.

 - Example: docker kill my-container

14. docker rmi:

   - Description: Remove a Docker image.

   - Example: docker rmi my-image

15. docker images:

   - Description: List all Docker images.

   - Example: docker images

16. docker network ls:

   - Description: List all Docker networks.

   - Example: docker network ls

17. docker volume ls:

   - Description: List all Docker volumes.

   - Example: docker volume ls

18. docker-compose up:

   - Description: Start services defined in a Docker Compose file.

   - Example: docker compose up

19. docker-compose down:

   - Description: Stop and remove containers defined in a Docker Compose file.

   - Example: docker compose down

20. docker logs:

   - Description: View the logs of a running container.

   - Example: docker logs my-container

21. docker inspect:

   - Description: Get detailed information about a Docker object (container, image, network, etc.).

   - Example: docker inspect my-container

22. docker login:

   - Description: Log in to a Docker registry/Hub.

   - Example: docker login

23. docker logout:

   - Description: Log out from a Docker registry/Hub.

   - Example: docker logout

24. docker prune:

   - Description: Remove unused Docker resources (containers, images, volumes, networks).

   - Example: docker system prune

25. docker search busybox:

   - Description: Search for Docker images on a registry (e.g., Docker Hub).

   - Example: docker search busybox

26. docker help:

   - Description: Get help and information about Docker commands.

   - Example: docker ps --help

27. docker pause:

   - Description: Pause all processes within a running container.

   - Example: docker pause my-container

28. docker unpause:

   - Description: Unpause a paused container, allowing its processes to resume.

   - Example: docker unpause my-container