```
DOCKER COMMANDS CHEAT SHEET


----------------------------
BASIC DOCKER COMMANDS
----------------------------
docker --version            Show installed Docker version.
docker info                 Display system-wide information about Docker.
docker help                 Show general help or help for a specific command.
docker pull <image>                 Download an image from Docker Hub (or another
registry).
docker images               List all locally stored images.
docker rmi <image>           Remove an image by name or ID.
docker ps                   List running containers.
docker ps -a                List all containers (running + stopped).
docker run <image>          Run a container from an image.
docker run -it <image> /bin/bash Start a container with interactive shell access.
docker start <container>    Start a stopped container.
docker stop <container>     Stop a running container.
docker restart <container>  Restart a container.
docker rm <container>       Remove a container.
docker logs <container>     View container logs.
docker exec -it <container> <command>  Execute a command inside a running container.


----------------------------
IMAGE MANAGEMENT
----------------------------
docker build -t <name>:<tag> .   Build an image from a Dockerfile.
docker tag <image> <repo>:<tag>  Tag an image for a repository.
docker save -o <file>.tar <image> Save image to a tar file.
docker load -i <file>.tar        Load image from tar file.
docker history <image>           Show layers of an image.
docker inspect <image>           Get detailed info about an image.


----------------------------
CONTAINER MANAGEMENT
----------------------------
docker inspect <container>       Get detailed info about a container.
docker top <container>           Show running processes in a container.
docker stats                      Live stats of containers (CPU, memory, network).
docker cp <container>:<path> <host_path>   Copy files from container to host.
docker cp <host_path> <container>:<path>   Copy files from host to container.
docker commit <container> <image> Create a new image from container changes.
docker rename <old> <new>        Rename a container.


----------------------------
NETWORKING
----------------------------
docker network ls                List networks.
docker network inspect <network>  View network details.
docker network create <name>      Create a new network.
docker network connect <network> <container>  Connect container to a network.
docker network disconnect <network> <container>  Disconnect container from a network.
```

```
----------------------------
VOLUMES & STORAGE
----------------------------
docker volume ls              List all volumes.
docker volume create <name>   Create a volume.
docker volume inspect <name>  View volume details.
docker volume rm <name>       Remove a volume.
docker system df               Show space usage by images, containers, volumes.
docker system prune            Remove unused data.


----------------------------
DOCKER COMPOSE
----------------------------
docker-compose up             Start all services in docker-compose.yml.
docker-compose up -d          Start in detached mode.
docker-compose down           Stop and remove containers, networks.
docker-compose ps             List services and status.
docker-compose logs           View logs for services.
docker-compose build          Build/rebuild services.
docker-compose restart        Restart services.


----------------------------
ADVANCED / PRO LEVEL
----------------------------
docker login                  Authenticate with a Docker registry.
docker logout                 Log out from registry.
docker push <repo>:<tag>      Push image to registry.
docker export <container> > file.tar  Export container's filesystem.
docker import <file.tar>      Import filesystem as an image.
docker events                 Real-time events from the Docker daemon.
docker attach <container>     Attach your terminal to a running container.
docker update --cpus <n> --memory <size> <container>  Update container resource limits.
docker checkpoint create <container> <name>  Create a checkpoint (experimental).
docker swarm init             Initialize a Docker Swarm manager.
docker swarm join --token <token> Join a swarm as a node.
docker service create --name <name> <image>  Create a service in swarm mode.
docker service ls             List swarm services.
docker service scale <name>=<count>  Scale a swarm service.
```