Docker All-in-One Command Cheat Sheet

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Basic Commands
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docker -v                                # Check Docker version
docker pull [image_name]                 # Pull image from Docker Hub
docker images                            # List all images
docker search [image_name]               # Search image on Docker Hub


Running Containers
------------------
docker run [image_name]                              # Run container
docker run -d [image_name]                           # Detached mode
docker run -e "KEY=VALUE" [image_name]               # With env vars
docker run -d --name [container_name] [image_name]   # Named container
docker run --name [container_name] -it -d [image]    # Interactive + detached
docker exec -it [container_id_or_name] [command]     # Execute in container
exit                                                 # Exit shell
docker ps                                            # List running containers
docker ps -a                                         # List all containers


Inspecting & Logs
-----------------
docker inspect [container_id_or_name]            # Inspect container
docker logs [container_id_or_name]               # View logs


Networking & Ports
------------------
docker run --name [name] -d -p host:container [image] # Port mapping


Stop & Remove
-------------
docker stop [container_id_or_name]               # Stop container
docker rm [container_id_or_name]                 # Remove container
docker rmi [image_name]                          # Remove image


Docker Hub Integration
----------------------
docker login                             # Login
docker commit [id] [username/repo]       # Commit image
docker push [username/repo]              # Push image
docker logout                            # Logout


Files & Volumes
---------------
docker cp [src] [container]:[dest]               # Copy to container
docker cp [container]:[src] [dest]               # Copy from container
docker volume ls                                 # List volumes
docker volume create [volume_name]               # Create volume
```

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Create Custom Docker Image
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# Dockerfile Example:
FROM ubuntu
MAINTAINER aman
RUN apt update
CMD ["echo", "This is My First ubuntu Image"]

# Build the image:
docker build -t myubuntuimage .
```