**DOCKER CHEAT SHEET**

## **Basic Docker Commands**

| **Command** | **What It Does** |
| --- | --- |
| docker -v | Check Docker version |
| docker info | Show system-wide Docker info |
| docker help | List all Docker commands |

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## **Working with Containers**

| **Command** | **What It Does** |
| --- | --- |
| docker run hello-world | Runs your first container |
| docker run -it ubuntu | Starts an interactive Ubuntu container |
| docker ps | Lists running containers |
| docker ps -a | Lists all containers (including stopped) |
| docker stop <container\_id> | Stops a running container |
| docker rm <container\_id> | Deletes a container |
| docker logs <container\_id> | Shows container output |
| docker exec -it <container\_id> bash | Enters a running container |

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## **Working with Images**

| **Command** | **What It Does** |
| --- | --- |
| docker images | Lists downloaded images |
| docker pull <image> | Downloads image from Docker Hub |
| docker rmi <image\_id> | Deletes an image |
| docker build -t <name> . | Builds image from Dockerfile |

## **Dockerfile Basics**

dockerfile

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# Sample Dockerfile

FROM python:3.8

COPY app.py .

CMD ["python", "app.py"]

## **Networking & Ports**

| **Command** | **What It Does** |
| --- | --- |
| docker run -d -p 8080:80 nginx | Runs nginx and maps container port 80 to host port 8080 |
| localhost:8080 | Access web app in browser |

## **Docker Hub**

| **Command** | **What It Does** |
| --- | --- |
| docker login | Log in to Docker Hub |
| docker push <username>/<image> | Upload your image |
| docker pull <username>/<image> | Download image from Hub |

## **Clean Up**

| **Command** | **What It Does** |
| --- | --- |
| docker rm $(docker ps -aq) | Remove all containers |
| docker rmi $(docker images -q) | Remove all images |