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Docker Basic CheatSheet



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Basic Commands:

Container Lifecycle:

docker run: Create and start a container.

```
$ docker run -d --name my_container nginx
```

docker start/stop/restart: Start, stop, or restart a container.

```
$ docker stop my_container  
$ docker start my_container  
$ docker restart my_container
```

docker ps: List running containers.

```
$ docker ps
```

docker ps -a: List all containers (including stopped ones).

```
$ docker ps -a
```

Image Management:

docker pull: Fetch an image from a registry.

```
$ docker pull ubuntu
```

docker build: Build an image from a Dockerfile.

```
$ docker build -t my_image .
```

docker images: List all local images.

```
$ docker images
```

docker rmi: Remove an image.

```
$ docker rmi my_image
```

Container Operations:

Interacting with Containers:

docker exec: Execute a command in a running container.

```
$ docker exec -it my_container bash
```

docker attach: Attach to a running container.

```
$ docker attach my_container
```

docker logs: View container logs.

```
$ docker logs my_container
```

Managing Container Resources:

docker cp: Copy files between container and host.

```
$ docker cp file.txt my_container:/path/to/destination
```

docker pause/unpause: Pause or unpause a running container.

```
$ docker pause my_container
```

```
$ docker unpause my_container
```

docker inspect: Display detailed container information.

```
$ docker inspect my_container
```

Networking:

Networking:

docker network ls: List available networks.

```
$ docker network ls
```

docker network create: Create a new network.

```
$ docker network create my_network
```

docker network connect/disconnect: Connect or disconnect a container to/from a network.

```
$ docker network connect my_network my_container  
$ docker network disconnect my_network my_container
```

Volume Management:

Volumes:

docker volume ls: List volumes.

```
$ docker volume ls
```

docker volume create: Create a volume.

```
$ docker volume create my_volume
```

docker volume rm: Remove a volume.

```
$ docker volume rm my_volume
```

docker volume inspect: Display detailed volume information.

```
$ docker volume inspect my_volume
```

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