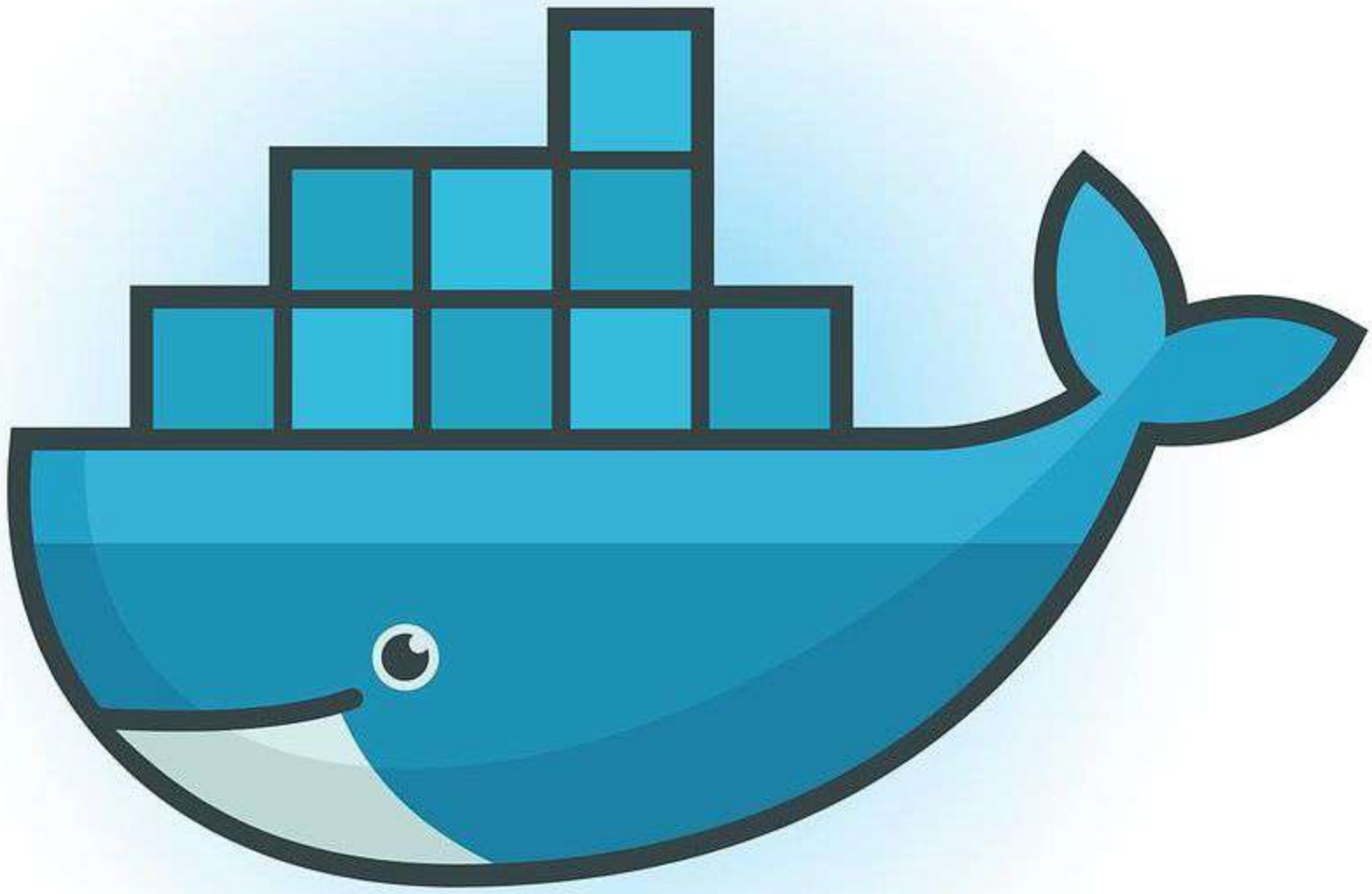
Docker Cheat sheet



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Introduction

Think of Docker like a lunchbox for your apps. It packs everything they need to run on any computer. Grab it, go anywhere, and work hassle-free!

This **Docker cheat sheet** can make it easy to work in the following ways-

- Docker Basics
- Container Lifecycle
- Images
- Docker Compose
- Volumes
- Docker Registry and Hub
- Networks
- Logs and Debugging
- Cleanup

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Docker Basics

```
// Check Docker version.
docker -- version or docker -v

// Display system-wide information about Docker.
docker info

// Download an image from Docker Hub.
docker pull <image_name>

// List local Docker images.
docker images or docker image ls

// List running containers.
docker ps or docker container ls

// List all containers (including stopped ones
docker ps -a or docker container ls -a

// Create and start a new container from an image.
docker run <options> <image_name>
```

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Plugin Management

```
Enter Docker plugin
docker plugin enable

Disable Docker plugin
docker plugin disable

Create Docker plugin
docker plugin create

View details about Docker plugin
docker plugin inspect

// Remove Docker plugin
docker plugin rm
```

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Docker Registry & Hub

```
// Log in to a Docker registry.
docker login

// Push an image to a registry.
docker push <image_name>

// Pull an image from a registry.
docker pull <image_name>
```

Networks

```
Create a user-defined network.
docker network create <network_name>

// List networks.
docker network ls

// Connect a container to a network.
docker network connect <network_name> <container_name/id>

// Disconnect a container from a network.
docker network disconnect <network_name> <container_name/id>
```

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Logs & Debugging

```
// View container logs.
docker logs <container_name/id>

// Start an interactive shell in a running container.
docker exec -it <container_name/id> /bin/bash

// Display real-time container resource usage.
docker stats <container_name/id>
```

Cleanup

```
// Remove all stopped containers, unused networks, and images.
docker system prune

// Remove all stopped containers.
docker container prune

// Remove all unused images.
docker image prune

// Remove all unused volumes
docker volume prune
```

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Docker Compose

```
// Start services defined in a Docker Compose file
docker-compose up

// Stop and remove services defined in a Docker Compose file.
docker-compose down

// List services in a Compose file and their status.
docker-compose ps

// View logs for a specific service.
docker-compose logs <service_name>

// Run a command in a running service container.
docker-compose exec <service_name> <command>
```

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Volumes

```
// Create a named volume
docker volume create <volume_name>

// Mount a volume to a container.
docker run -v <volume_name> :< container_path>

// List volumes
docker volume 1s

// Remove a volume
docker volume rm <volume_name>
```

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Volumes

```
// Create a named volume
docker volume create <volume_name>

// Mount a volume to a container.
docker run -v <volume_name> :< container_path>

// List volumes
docker volume 1s

// Remove a volume
docker volume rm <volume_name>
```

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