# Docker Cheat Sheet

Docker is a platform for developing, shipping, and running applications in containers. Containers allow applications to be packaged with their dependencies and run consistently across different environments.

## 1. Docker Installation

Install Docker on Linux:  
$ sudo yum install -y docker  
$ sudo systemctl start docker  
$ sudo systemctl enable docker

## 2. Essential Docker Commands

### 2.1 Working with Images

List available images:  
$ docker images  
Pull an image from Docker Hub:  
$ docker pull ubuntu  
Remove an image:  
$ docker rmi image\_id

### 2.2 Working with Containers

Run a container interactively:  
$ docker run -it ubuntu /bin/bash  
List running containers:  
$ docker ps  
List all containers:  
$ docker ps -a  
Stop a running container:  
$ docker stop container\_id  
Remove a container:  
$ docker rm container\_id

### 2.3 Docker Volumes

Create a volume:  
$ docker volume create my\_volume  
List volumes:  
$ docker volume ls  
Remove a volume:  
$ docker volume rm my\_volume

### 2.4 Docker Networking

List networks:  
$ docker network ls  
Create a network:  
$ docker network create my\_network  
Connect a container to a network:  
$ docker network connect my\_network container\_id

### 2.5 Docker Compose

Start services defined in a docker-compose.yml file:  
$ docker-compose up -d  
Stop services:  
$ docker-compose down