Docker Cheat Sheet

March 16, 2025

Docker Basics

```
# Check Docker version
docker --version

# Show system-wide information
docker info

# List all running containers
docker ps

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

# Start a stopped container
docker start <container_id>

# Stop a running container
docker stop <container_id>

# Remove a container
docker rm <container_id>

# Remove all stopped containers
docker container prune
```

Working with Images

```
# List all downloaded images
docker images

# Search for an image in Docker Hub
docker search <image_name>

# Pull an image from Docker Hub
docker pull <image_name>

# Remove an image
docker rmi <image_name>

# Remove all unused images
docker image prune
```

Running Containers

```
# Run a container from an image
docker run <image_name>

# Run a container in detached mode
docker run -d <image_name>

# Run a container with an interactive shell
docker run -it <image_name> /bin/bash

# Run a container and remove it after exit
docker run --rm <image_name>
```

Volumes and Networks

```
# List all volumes
docker volume ls

# Create a volume
docker volume create <volume_name>

# Remove a volume
docker volume rm <volume_name>

# List all networks
docker network ls

# Create a network
docker network create <network_name>

# Connect a container to a network
docker network connect <network_name> <container_id>
```

Docker Compose

```
# Start services defined in docker-compose.yml
docker-compose up

# Start services in detached mode
docker-compose up -d

# Stop services
docker-compose down

# Restart services
docker-compose restart
```