

Docker and Docker-Compose Cheat-Sheet

Docker General Commands

- Display Docker version:
docker --version
- Display Docker info:
docker info
- Show system-wide information:
docker system info

Docker Container Commands

- List all containers (running and stopped):
docker ps -a
- List only running containers:
docker ps
- Start a container:
docker start <container_id_or_name>
- Stop a container:
docker stop <container_id_or_name>
- Restart a container:
docker restart <container_id_or_name>
- Pause a container:
docker pause <container_id_or_name>
- Unpause a container:
docker unpause <container_id_or_name>
- Remove a container:
docker rm <container_id_or_name>
- Remove all stopped containers:
docker container prune
- Inspect a container:
docker inspect <container_id_or_name>
- View logs of a container:
docker logs <container_id_or_name>
- Execute a command in a running container:
docker exec -it <container_id_or_name> <command>

Docker Image Commands

- List all images:
docker images
- Pull an image from a registry:
docker pull <image_name>:<tag>
- Build an image from a Dockerfile:
docker build -t <image_name>:<tag> .

- Tag an image:
docker tag <image_id> <new_image_name>:<tag>
- Remove an image:
docker rmi <image_id_or_name>
- Remove all unused images:
docker image prune
- Inspect an image:
docker inspect <image_id_or_name>

Docker Volume Commands

- List all volumes:
docker volume ls
- Create a volume:
docker volume create <volume_name>
- Remove a volume:
docker volume rm <volume_name>
- Inspect a volume:
docker volume inspect <volume_name>
- Remove all unused volumes:
docker volume prune

Docker Network Commands

- List all networks:
docker network ls
- Create a network:
docker network create <network_name>
- Remove a network:
docker network rm <network_name>
- Inspect a network:
docker network inspect <network_name>
- Remove all unused networks:
docker network prune

Docker System Commands

- Show system-wide information:
docker system info
- Remove unused data (containers, networks, images, volumes):
docker system prune
- Remove unused data with more aggressive pruning:
docker system prune -a

Docker Compose Commands

- Check Docker Compose version:
docker-compose --version

- Start services defined in docker-compose.yml:
docker-compose up
- Start services in detached mode:
docker-compose up -d
- Stop and remove containers, networks, volumes, and images:
docker-compose down
- Rebuild services:
docker-compose build
- View logs of services:
docker-compose logs
- Execute a command in a running service:
docker-compose exec <service_name> <command>
- Run a one-off command:
docker-compose run <service_name> <command>
- Remove stopped service containers:
docker-compose down --volumes

Docker Registry Commands

- Login to Docker Hub:
docker login
- Logout from Docker Hub:
docker logout
- Push an image to a registry:
docker push <image_name>:<tag>