Docker Cheat Sheet

Process Management

- # Show all running docker containers docker ps
- # Show all docker containers docker ps -a
- # Run a container docker run <image>:<tag>
- # Run a container and connect to it docker run -it <image>:<tag>
- # Run a container and clean it up after exit docker run --rm <image>:<tag>
- # Run a container in the background docker run -d <image>:<tag>
- # Stop a container
 docker stop <container>
- # Kill a container docker kill < container>

Images/Repository

- # List available local images docker image Is
- # Search for docker images docker search <image>
- # Pull a docker image docker image pull <image>
- # Build an image with a dockerfile docker image build -t <image>:<tag> <run_directory> -f <dockerfile>
- # Login to a remote repository docker login <repository>
- # Push an image to your remotee repository docker image push <image>:<tag>
- # Remove a local docker image docker image rm <image>:<tag>
- # Show metadata for an image docker image inspect <image>
- # Remove all unused docker images docker image prune

Docker Compose

- # Start your docker-compose defined resources in detached mode docker-compose up -d -f <docker compose yaml>
- # Stop all docker-compose resources docker-compose stop
- # Destroy all docker-compose resources docker-compose down
- # Show docker-compose processes docker-compose ps
- # Show docker-compose logs docker-compose logs
- # Show docker-compose resource consumption docker-compose top
- # Pull latest docker-compose images docker-compose pull

Volumes & Ports

- # List volumes docker volume ls
- # Create a volume docker volume create < volume>
- # Delete a volume docker volume rm < volume>
- # Show volume metadata docker volume inspect < volume>
- # Delete all volumes not attached to a container docker volume prune
- # Mount a local directory to your container
 docker run -v <local_dir>:<container_dir> <image>
- # Copy file or folder from a docker container to host machine docker cp <container>:<container dir> <local dir>
- # Copy file or folder from local machine onto a container docker cp <local_dir> <container>:<container_dir>
- # Map a local port to a docker instance docker run -d -p 127.0.0.1:<local_port>:<docker_port> <image>
- # List the ports a docker container is running on docker port <container>

Troubleshooting

- # Show the logs of a container docker logs <container>
- # Follow/tail the logs of a container docker logs -f <container>
- # Show timestamps on docker logs docker logs -t <container>
- # Show details/metadata of a container docker inspect <container>
- # Show a 'top' view of processes running on a container docker top <container>
- # Show a 'top' view of all docker containers docker stats
- # Show any files that have changed since startup docker diff <container>
- # Connect to an already running container docker attach <container>
- # Execute a command on a container docker exec -it <container id> /bin/bash
- # Show docker system wide information docker system info
- # Show docker disk space used docker system df