Dockerfile:

FROM debian:wheezy ENTRYPOINT ["/bin/ping"] CMD ["localhost"]

Execution: Docker build -t test . Docker run -d test Docker run -it test google.com

Dockerfile: FROM debian:wheezy CMD ["/bin/ping", "localhost"]

Execution: Docker build -t test2 . Docker run test2 Docker run test2 bash

The ENTRYPOINT specifies a command that will always be executed when the container starts. The CMD specifies arguments that will be fed to the ENTRYPOINT.

Both CMD and ENTRYPOINT instructions define what command gets executed when running a container. There are few rules that describe their cooperation. 1. Dockerfile should specify at least one of CMD or ENTRYPOINT commands. 2. ENTRYPOINT should be defined when using the container as an executable. 3. CMD should be used as a way of defining default arguments for an ENTRYPOINT command or for executing an ad-hoc command in a container. 4. CMD will be overridden when running the container with alternative arguments

CMD No CMD error, not allowed CMD ["exec_cmd", "p1_cmd"] exec_cmd p1_cmd CMD ["p1_cmd", "p2_cmd"] p1_cmd p2_cmd CMD exec_cmd p1_cmd /bin/sh -c exec_cmd p1_cmd

- -- ENTRYPOINT exec_entry pl_entry No CMD /bin/sh -c exec_entry pl_entry CMD ["exec_cmd", "pl_cmd"] /bin/sh -c exec_entry pl_entry CMD ["pl_cmd", "p2_cmd"] /bin/sh -c exec_entry pl_entry CMD exec_cmd pl_cmd /bin/sh -c exec_entry pl_entry
- -- ENTRYPOINT ["exec_entry", "pl_entry"] No CMD exec_entry pl_entry CMD ["exec_cmd", "pl_cmd"] exec_entry pl_entry exec_cmd pl_cmd CMD ["pl_cmd", "p2_cmd"] exec_entry pl_entry pl_cmd p2_cmd CMD exec_cmd pl_cmd exec_entry pl_entry /bin/sh -c exec_cmd pl_cmd