



Volumes & Networking Cheat Sheet

Why containers lose data by default, and the volumes, networks, and env vars that fix that.

Ephemeral -> Volumes -> Network -> Env vars

WHY IT DISAPPEARS

- Container's writable layer
- Deleted when the container is removed
- The image itself never changes
- A fresh container = fresh state

VOLUMES

- Bind mount: `-v host:container`
- Named volume: `-v name:path`
- Bind mounts fit local dev
- Named volumes fit persistent data

NETWORKING

- `-p host:container` publishes a port
- docker network create for a shared net
- Containers reach each other by name
- ...on the same user-defined network

ENV VARS

- `-e KEY=value` at run time
- `--env-file` for many variables
- Keep real `.env` files out of git
- Keep a placeholder `.env.example` checked in