# Docker Container Volume

Persistant storage place

All files created inside a container are stored on a **writable container layer on top of the container image**. This means that:

- The data doesn't persist when that container no longer exists.

- A container's writable layer is tightly coupled to the host machine

- Writing into a container's writable layer requires a storage driver to manage the filesystem.
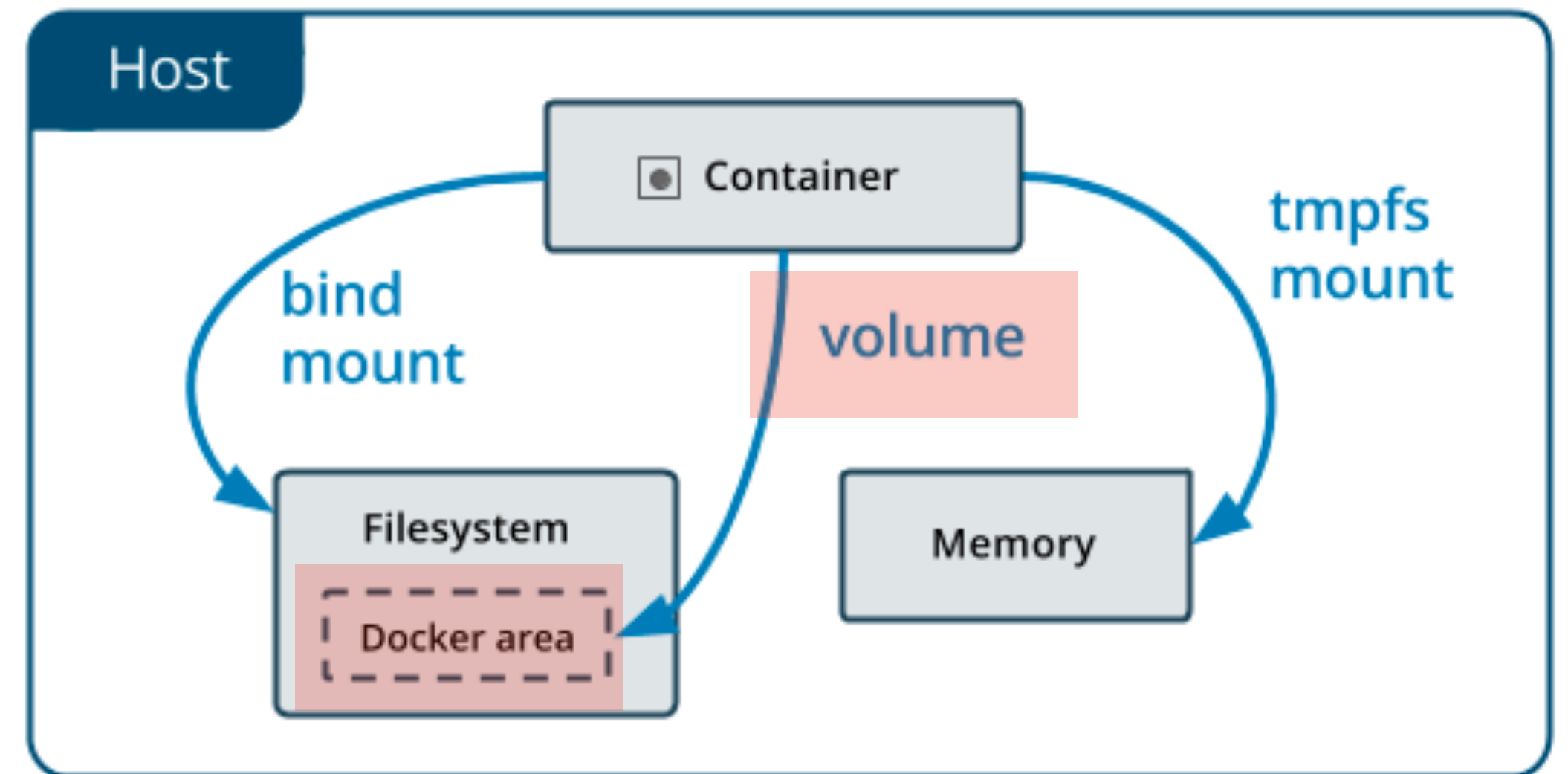
Docker volume options

- **Volumes** are stored in a part of the host filesystem which is *managed by **Docker** /* `var/lib/docker/volumes/` on Linux).

- **Bind mounts** may be stored *anywhere* on the host system.

- `tmpfs` **mounts** are stored in the host system's memory only, and are never written to the host system's filesystem.

#init6

Docker Container Volume
Creating and Mounting a Volume

`$docker volume create <volume_name>`

`$docker volume Prune <volume_name>`

Two ways to mount a volume using the `'-v'` or `'—volume'` argument or `—mount` argument

`$docker run -it -v <volume_name>`

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