

Docker

<https://docs.docker.com/storage/volumes/>

Update docker container to latest version via docker compose:

```
#Single container:
docker compose pull calibre-web
docker compose up -d calibre-web
docker image prune

#Update all containers:
docker compose pull
docker compose up -d
docker image prune
```

Docker compose health checks:

<https://medium.com/geekculture/how-to-successfully-implement-a-healthcheck-in-docker-compose-efced60bc08e>

Copying files from/to images

```
docker cp dockerimage:/bla ./bla
docker cp ./bla dockerimage:/bla
```

Flatten docker image layers:

```
FROM yourbuildimage as build
# your existing build steps here
FROM scratch
COPY --from=build / /
CMD ["/your/start/script"]
```

Change mount points of existing docker containers;

e.g. mount /home/<user-name> folder of host to the /mnt folder of the existing (not running) container.

1. stop docker container or whole docker engine

```
systemctl stop docker.service
```

2. Open configuration file corresponding to the stopped container, which can be found at /var/lib/docker/containers/99d...1fb/config.v2.json (may be config.json for older versions of docker). For pretty print use

```
vi <(jq . /var/lib/docker/containers/<container-ID>/config.v2.json)
Save updates to a file: :w config.v2.json
Exit vim: :q!
Update existing file: jq -c . config.v2.json >
```

```
/var/lib/docker/containers/<container-ID>/config.v2.json
```

3. Find MountPoints section: "MountPoints":{}
4. Replace the contents with something like this (you can copy proper contents from another container with proper settings):

```
"MountPoints":{"/mnt":{"Source":"/home/<user-name>","Destination":"/mnt","RW":true,"Name":"","Driver":"","Type":"bind","Propagation":"rprivate","Spec":{"Type":"bind","Source":"/home/<user-name>","Target":"/mnt"},"SkipMountpointCreation":false}}
```

or the same (formatted):

```
"MountPoints": {
  "/mnt": {
    "Source": "/home/<user-name>",
    "Destination": "/mnt",
    "RW": true,
    "Name": "",
    "Driver": "",
    "Type": "bind",
    "Propagation": "rprivate",
    "Spec": {
      "Type": "bind",
      "Source": "/home/<user-name>",
      "Target": "/mnt"
    },
    "SkipMountpointCreation": false
  },
}
```

5. Start or restart the docker service:

```
systemctl start docker.service
service docker restart
```

6. Start the container if necessary:

```
docker start <container-name/ID>
```

Containerised PHP & NGINX on Alpine, image size ~60MB:

<https://levelup.gitconnected.com/containerizing-nginx-php-fpm-on-alpine-linux-953430ea6dbc>
<https://github.com/johnathanesanders/docker-nginx-fpm>

Log nginx to stdout in Dockerfile:

```
# forward request and error logs to docker log collector
RUN ln -sf /dev/stdout /var/log/nginx/access.log \
    && ln -sf /dev/stderr /var/log/nginx/error.log
```

From:
<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:
<http://wuff.dyndns.org/doku.php?id=linux:docker&rev=1687643086>

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