

Container health

```
FROM nginx
HEALTHCHECK --interval=30s --timeout=5s --retries=3 CMD curl -f http://localhost:80

#--interval=30s: This specifies that the health check will run every 30 seconds.
#--timeout=5s: This indicates that the health check command has 5 seconds to respond. If it takes longer, it
is considered a failure.
#--retries=3: This specifies that Docker will consider the container unhealthy if it fails 3 consecutive heal
th checks.
```

```
[root@dev adhamdockers]# vim Dockerfile
[root@dev adhamdockers]#
```

```
[root@dev adhamdockers]# docker build -t health-img .
[+] Building 0.1s (5/5) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 190B                             0.0s
=> [internal] load metadata for docker.io/library/nginx:latest  0.0s
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                    0.0s
=> [1/1] FROM docker.io/library/nginx:latest                   0.0s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:c2b63b0bf041488b68f9c2e92d23d2669c84806691c6eeffb3217169d26765c3 0.0s
=> => naming to docker.io/library/health-img                   0.0s
```

```
[root@dev adhamdockers]# docker run -it -d --name healh-cont -p 3000:80 health-img
4a360ac081ec3a4055bf33620e031f2c540ac96db1cda319134c84c42e55b118
[root@dev adhamdockers]#
```

```
[root@dev adhamdockers]# docker ps
CONTAINER ID   IMAGE      COMMAND                  NAMES                                CREATED        STATUS        PORTS
4a360ac081ec   health-img "/docker-entrypoint..." healh-cont                          About a minute ago Up About a minute (healthy) 0.0.0
.0:3000->80/tcp, [::]:3000->80/tcp
3fdf978e5554   nginx     "/docker-entrypoint..." adhamdockers-frontend-1           32 minutes ago Up 26 minutes 0.0.0
.0:8005->80/tcp, [::]:8005->80/tcp
2e57f66ba878   mysql     "docker-entrypoint.s..." adhamdockers-db-1                 37 minutes ago Up 37 minutes 3306/
tcp, 33060/tcp
[root@dev adhamdockers]#
```

```
[root@dev adhamdockers]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
python        3.9       f327fe247a06   42 hours ago   999MB
script_img    latest    ce734a89aaf1   2 days ago     7.8MB
<none>        <none>    b1bb1f89a847   2 days ago     7.8MB
<none>        <none>    61ff7744331a   3 days ago     7.8MB
nginx         latest    66f8bdd3810c   9 days ago     192MB
health-img    latest    c2b63b0bf041   9 days ago     192MB
mysql         latest    56a8c14e1404   7 weeks ago    603MB
centos        latest    5d0da3dc9764   3 years ago    231MB
```

```
[root@dev adhamdockers]# docker inspect healh-cont | grep "health"
      "Status": "healthy",
      "Image": "health-img",
```

Delete the Nginx Default Web Directory

```
[root@dev adhamdockers]# docker exec -it healh-cont bash
root@4a360ac081ec:/#
root@4a360ac081ec:/# rm /usr/share/nginx/html
rm: cannot remove '/usr/share/nginx/html': Is a directory
root@4a360ac081ec:/# rm -rf /usr/share/nginx/html
root@4a360ac081ec:/#
```

```
[root@dev adhamdockers]# docker exec -it healh-cont bash
root@4a360ac081ec:/# service nginx restart
Restarting nginx: nginx[root@dev adhamdockers]#
[root@dev adhamdockers]#
[root@dev adhamdockers]# docker inspect healh-cont | grep "health"
        "Status": "unhealthy",
        "Image": "health-img",
[root@dev adhamdockers]#
```