"read-only file system" error when pulling Docker image

Asked 8 years, 9 months ago   Modified 2 years, 1 month ago   Viewed 72k times

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I am trying to install Splash for Scrapy.

According to its installation documentation, first of all Docker has to be installed. This has been successfully done.

Then I launch the Docker Quickstart Terminal and I try to follow the second step and pull the image. This is when the issue arrives:

```
$ docker pull scrapinghub/splash
```

After pulling, extracting and downloading; I receive the following message:

> failed to register layer: Untar re-exec error: exit status 1: output: write /usr/share/fonts/truetype/arphic-bsmi00lp/bsmi00lp.ttf: read-only file system

Attempts

If I follow the documentation from GitHub:

```
$ docker run -p 8050:8050 scrapinghub/splash
```

I get the same error:

> docker: open /mnt/sda1/var/lib/docker/tmp/GetImageBlob849866419: read-only file system

I also found some other threads talking about similar issues, but I did not find any solution, or at least I did not understand it.

- Error saving container to disk: read-only file system
- Read Only Error on yosemite MacOsX
- docker container filesystem became 'read-only' after running 5 months

I am not familiar with Virtual Machines or Virtual Boxes, so maybe I am just doing a very simple mistake.

Any ideas to solve the problem?

Additional details

```
$ docker info

Containers: 1
 Running: 0
 Paused: 0
 Stopped: 1
Images: 0
Server Version: 1.11.2
Storage Driver: aufs
 Root Dir: /mnt/sda1/var/lib/docker/aufs
 Backing Filesystem: extfs
 Dirs: 0
 Dirperm1 Supported: true
Logging Driver: json-file
Cgroup Driver: cgroupfs
Plugins:
 Volume: local
 Network: host bridge null
Kernel Version: 4.4.12-boot2docker
Operating System: Boot2Docker 1.11.2 (TCL 7.1); HEAD : a6645c3 - Wed Jun  1 22:59:51
UTC 2016
OSType: linux
Architecture: x86_64
CPUs: 1
Total Memory: 1.955 GiB
Name: default
ID: QXKR:FRMB:NMLI:RLSF:K7PT:RXWE:44MP:6NQN:ISFO:GNWR:NBGO:AMNL
Docker Root Dir: /mnt/sda1/var/lib/docker
Debug mode (client): false
Debug mode (server): true
 File Descriptors: 12
 Goroutines: 30
 System Time: 2016-06-10T15:09:55.50550284Z
 EventsListeners: 0
Registry: https://index.docker.io/v1/
Labels:
 provider=virtualbox
```

macos   **docker**   **scrapy**

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edited Jun 20, 2020 at 9:12

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asked Jun 10, 2016 at 15:53

J0ANMM
8,541 ● 10 ● 66 ● 95

5 Answers

Sorted by: Highest score (default) ⇕

I cannot give an explanation of what was wrong, but I can explain what I did to make it work:

1. Restart.

2. Go through the steps of the documentation again.

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answered Jun 10, 2016 at 21:40

J0ANMM
8,541 ● 10 ● 66 ● 95

Thank you, this worked for me on WSL, just restarted my computer and docker pull continued where it left off and finished. Also make sure VPN service is off! – Ariel Frischer Nov 24, 2021 at 17:42

1   Restart worked for me as well on a mac – Hritik Sep 13, 2023 at 11:44

This issue because of low storage in my pc, I cleaned up drive C: where docker was installed and restarted the docker

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answered Jan 10, 2022 at 3:36

Divek John
755 ● 8 ● 17

In my case I had free space but was still receiving the error. Running compact vdisk on the *.vhdx files fixed it. – Mike Lowery Oct 7, 2024 at 23:09

In my case, running `docker-machine stop` and then `docker-machine start` solved the problem.

I had to run `eval $(docker-machine env)` after, but that's it.

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answered Mar 22, 2019 at 17:47

Vic Seedoubleyew
10.6k ● 6 ● 61 ● 80

2   or you can simply do `docker-machine restart` instead of `stop` and then `start` .
    – Yogeshwar Singh Dec 16, 2019 at 11:23

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I got the error as well, the error message can be very misleading - the problem was not that I had a read-only file system, I had a FULL file system. Try checking that the place docker is trying to pull and extract to has enough room for the download.

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Share   Improve this answer   Follow   edited Nov 19, 2021 at 9:54   answered Nov 12, 2021 at 13:24

Michael Shaw
153 ● 1 ● 6

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that is true , I got the same error because of memory – Black Bear Jun 12, 2024 at 17:16

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It is possible that your docker stopped without your notice. Try to completely stop(close) it and re-open it again then try to reconnect.

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Share   Improve this answer   Follow   answered Feb 9, 2023 at 23:21

Godwin Tusime
151 ● 1 ● 5

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