No access rights in Docker Container when using SLES15 and *Suse Container

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I am running Docker 18.09.6 on SLES15 (GNU/Linux 4.12.14). When starting any suse container leap/tumbleweed or sle15 I do not have proper access rights to see `ls -l`. Other Container Images like Alpine and Ubuntu work without a problem. In both cases I am `id -u = 0` and root according to `whoami`.

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Sample:

```
275b1cf2bd20:/ # ls -l
ls: cannot access 'sbin': Operation not permitted
ls: cannot access 'sys': Operation not permitted
ls: cannot access 'usr': Operation not permitted
ls: cannot access 'proc': Operation not permitted
ls: cannot access 'bin': Operation not permitted
ls: cannot access 'tmp': Operation not permitted
ls: cannot access 'selinux': Operation not permitted
ls: cannot access 'boot': Operation not permitted
ls: cannot access 'home': Operation not permitted
ls: cannot access 'root': Operation not permitted
ls: cannot access 'dev': Operation not permitted
ls: cannot access 'var': Operation not permitted
ls: cannot access 'run': Operation not permitted
ls: cannot access 'lib64': Operation not permitted
ls: cannot access 'opt': Operation not permitted
ls: cannot access 'srv': Operation not permitted
ls: cannot access 'mnt': Operation not permitted
ls: cannot access 'lib': Operation not permitted
ls: cannot access 'etc': Operation not permitted
total 0
d????????? ? ? ? ?            ? bin
d????????? ? ? ? ?            ? boot
d????????? ? ? ? ?            ? dev
d????????? ? ? ? ?            ? etc
d????????? ? ? ? ?            ? home
d????????? ? ? ? ?            ? lib
d????????? ? ? ? ?            ? lib64
d????????? ? ? ? ?            ? mnt
d????????? ? ? ? ?            ? opt
d????????? ? ? ? ?            ? proc
d????????? ? ? ? ?            ? root
d????????? ? ? ? ?            ? run
d????????? ? ? ? ?            ? sbin
```

```
d????????  ?  ?  ?  ?            ? selinux
d????????  ?  ?  ?  ?            ? srv
d????????  ?  ?  ?  ?            ? sys
```

What is happening here?

linux   docker   sles

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2 Answers

Sorted by: Highest score (default) ⬍

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I faced similar issue when I was trying to run SLES based container on different host machine (i.e. host machine having different OS than SLES)

If docker image and host machine are based on same OS, then it should not have permission issue with `ls -l` or `ls -n`

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This does not provide an answer to the question. Once you have sufficient reputation you will be able to comment on any post; instead, provide answers that don't require clarification from the asker. - From Review – the Tin Man Jan 30, 2022 at 21:53

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This seems to be linked to an update in Linux kernel version in opensuse:leap, debian:bullseye, etc: all further version of these OS are also concerned.

github.com user tianon recommend updating "*Docker, runc, and likely libseccomp on your host.*" source: https://github.com/docker-library/openjdk/issues/465

Upgrading of libseccomp to version 2.5.2 solved the same problem on my side.

source: https://github.com/seccomp/libseccomp/blob/main/CHANGELOG

edited Mar 28, 2022 at 14:09

answered Mar 28, 2022 at 13:01

Labo RMIB
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<> Code   ⊙ Issues 3   ⌚ Pull requests   ▶ Actions   ▦ Projects   ⚠ Security   ⬚ Insights

latest openjdk 11 images do not run on Docker with CentOS 7 #465   New issue

⊙ Closed   jpmaas opened this issue on Aug 27, 2021 · 1 comment

jpmaas commented on Aug 27, 2021

We noticed that our maven builds were failing recently due to issues when using the official maven image based on openjdk 11.

However, after some investigation with the developers of the maven image, it was noted that at least the openjdk 11 images seem have a corrupted file system when run with a docker engine on CentOS 7.

The permissions of the file system inside the docker image run:

```
$ docker run -it openjdk:jdk-11-slim /bin/sh
# ls -la
ls: cannot access '.': Operation not permitted
ls: cannot access '..': Operation not permitted
ls: cannot access 'bin': Operation not permitted
ls: cannot access 'boot': Operation not permitted
ls: cannot access 'dev': Operation not permitted
ls: cannot access 'etc': Operation not permitted
ls: cannot access 'home': Operation not permitted
ls: cannot access 'lib': Operation not permitted
ls: cannot access 'lib64': Operation not permitted
ls: cannot access 'media': Operation not permitted
ls: cannot access 'mnt': Operation not permitted
ls: cannot access 'opt': Operation not permitted
ls: cannot access 'proc': Operation not permitted
ls: cannot access 'root': Operation not permitted
ls: cannot access 'run': Operation not permitted
ls: cannot access 'sbin': Operation not permitted
ls: cannot access 'srv': Operation not permitted
ls: cannot access 'sys': Operation not permitted
```

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

```
ls: cannot access 'tmp': Operation not permitted
ls: cannot access 'usr': Operation not permitted
ls: cannot access 'var': Operation not permitted
ls: cannot access '.dockerenv': Operation not permitted
total 0
d????????? ? ? ? ?            ? .
d????????? ? ? ? ?            ? ..
-????????? ? ? ? ?            ? .dockerenv
d????????? ? ? ? ?            ? bin
d????????? ? ? ? ?            ? boot
d????????? ? ? ? ?            ? dev
d????????? ? ? ? ?            ? etc
d????????? ? ? ? ?            ? home
d????????? ? ? ? ?            ? lib
d????????? ? ? ? ?            ? lib64
d????????? ? ? ? ?            ? media
d????????? ? ? ? ?            ? mnt
d????????? ? ? ? ?            ? opt
d????????? ? ? ? ?            ? proc
d????????? ? ? ? ?            ? root
d????????? ? ? ? ?            ? run
d????????? ? ? ? ?            ? sbin
d????????? ? ? ? ?            ? srv
d????????? ? ? ? ?            ? sys
d????????? ? ? ? ?            ? tmp
d????????? ? ? ? ?            ? usr
d????????? ? ? ? ?            ? var
# whoami
root
```

OS Information:

```
$ cat /etc/os-release
NAME="CentOS Linux"
VERSION="7 (Core)"
ID="centos"
ID_LIKE="rhel fedora"
VERSION_ID="7"
PRETTY_NAME="CentOS Linux 7 (Core)"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:centos:centos:7"
HOME_URL="https://www.centos.org/"
BUG_REPORT_URL="https://bugs.centos.org/"
```

```
CENTOS_MANTISBT_PROJECT="CentOS-7"
CENTOS_MANTISBT_PROJECT_VERSION="7"
REDHAT_SUPPORT_PRODUCT="centos"
REDHAT_SUPPORT_PRODUCT_VERSION="7"
```

Docker information:

```
$ sudo docker version
Client: Docker Engine - Community
 Version:           19.03.7
 API version:       1.40
 Go version:        go1.12.17
 Git commit:        7141c199a2
 Built:             Wed Mar  4 01:24:10 2020
 OS/Arch:           linux/amd64
 Experimental:      false

Server: Docker Engine - Community
 Engine:
  Version:          19.03.7
  API version:      1.40 (minimum version 1.12)
  Go version:       go1.12.17
  Git commit:       7141c199a2
  Built:            Wed Mar  4 01:22:45 2020
  OS/Arch:          linux/amd64
  Experimental:     false
 containerd:
  Version:          1.2.13
  GitCommit:        7ad184331fa3e55e52b890ea95e65ba581ae3429
 runc:
  Version:          1.0.0-rc10
  GitCommit:        dc9208a3303feef5b3839f4323d9beb36df0a9dd
 docker-init:
  Version:          0.18.0
  GitCommit:        fec3683
```

Our builds started failing yesterday after the update of the maven image has happened based on the update of openjdk two days ago. The issues can not be reproduced using the version `openjdk:11.0.11-jdk-slim`

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jpmaas mentioned this issue on Aug 27, 2021

Project not building since recent update on image carlossg/docker-maven#221

⊙ Open

tianon commented on Aug 28, 2021   Member

This is likely due to the update to Debian Bullseye -- you'll need to update Docker, runc, and likely libseccomp on your host.

Alternatively, you can pin to the Buster variants explicitly, but you'll want to deal with this properly sooner or later because the Buster variants won't be maintained forever (`openjdk:11-jdk-slim-buster`).

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tianon closed this as completed on Aug 28, 2021

wglambert mentioned this issue on Aug 31, 2021

Openjdk:8-jdk (after bullseye update) permissions issues docker-library/official-images#10815

✓ Closed

shwetha-manvinkurke mentioned this issue on Sep 9, 2021

fix: deploy issues twilio/twilio-java#644

⎇ Merged

This was referenced on Sep 13, 2021

Can access root file system, even as root user docker-library/php#1202

✓ Closed

Can't install 5.8 on OpenShift (docker containers) docker-library/wordpress#636

✓ Closed