**COMO LOCALIZAR ONDE AS IMAGENS DO DOCKER ESTÃO ARMAZENADAS**

PASSO 1 - Execute o comando abaixo para identificarmos qual é o DRIVER MAPPER que está sendo utilizado no momento para as imagens do Docker na determinada distro em questão. Percebam na saída stdout do comando que destacamos a linha "STORAGE DRIVER: OVERLAY2", onde OVERLAY2 é o STORAGE DRIVER utilizado na distro em questão.

COMANDO: docker info

EXEMPLO:

Texto alternativo gerado por máquina:
rootesv-SRv-ZABBIX: 
CI ient: 
24.6.5 
Vers ton: 
default 
Context: 
Debug Mode: 
false 
Server: 
Contauners: 
docker info 
Running: 
paused: e 
Stopped: 
Images: e 
24.9.5 
Storage Driver: 
ver ay2 
Supports d_typ 
true 
Us ing metacopy: 
Native Overlay Diff: 
false 
userxattr: 
Logging Driver: 
j son- file 
Cgroup Driver: systemd 
Cgroup Vers ton: 2 
plugins: 
Volume: local 
Network: bridge host ipvlan macvlan nu II overlay 
Log: awslogs fluentd gcplogs gelf journald json-file local Iogentrues splunk syslog 
Swarm: unactuve 
Runtumes: to. conta . runc .v2 runc 
Default Runtime: r unc 
Init Binary: docker-inut 
contavnerd vers ton: 
runc vers ton: 
inut vers ton: 

PASSO 2 - Sabendo qual é o tipo do STORAGE DRIVER utilizado, então devemos listar o diretório /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/, onde neste diretório ficam armazenadas os hashies das 4 camadas que formam uma imagem do docker, onde tais camadas são criadas quando realizamos o download de uma imagem do docker via gerenciador de pacotes.

COMANDO: **ls -lhs /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/**

EXEMPLO:

Texto alternativo gerado por máquina:
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dr.x------ 
Ivar t b,'docker/oVerIay2,' 
527417 
56S7E2 
152152 
ss7se5 
sgi0E4 
548957 
SAAOS4 
5409as 
565976 
573914 
Tez339 
52140 
dr•x••• 
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19:59 
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oe:as 
21:40 
59 
21:40 
og;os 
ee:02 
95 
ee;03 
ae:93 
00:04 
22:32 
60:oS 
"deu t 
roo ; I 

**DENTRO DE CADA UM DESTES DIRETÓRIOS EXISTE A ÁRVORE DE DIRETÓRIO DE CADA CONTAINER:**

Texto alternativo gerado por máquina:
rooteteandrocgsi : /home/leandro# Is 
-Ita 
19:58 
22 
20:1 
26:1 
14:1 
14:1 
c er/averIay2/e54acI 
fa2ac3c9 
c 6a 
666efc288 2 
total 24 
149464 drwx. 
527426 drwx------ 
149475 drwxr-xr-x 
149477 -r.-r--r-- 
149479 -rÀ-r--r-- 
149478 
4 root root 4096 
29 root root 4096 
7 root root 4396 
I r oot r oot 25 
3 root root 
rooteleandrocgst : /home/leandro# Is 
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25 19:5 
23 19:5 
23 19:58 
23 19:58 
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149475 
149464 
149576 
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149516 
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149486 
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7 r oot 
drwxr •xr•x 
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dr-xr-x--- 2 
roo t 
d rwt 
2 root 
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6 r oot 
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23 
27 
27 
root 
usr 

PASSO 3 - Agora devemos compreender os diretórios dentro de /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/ que foram as 4 camadas que estruturam uma determinada imagem do docker.

**LAYER 0 (IMAGEM 0):** Nesta camada está o BASE IMAGE (SISTEMA OPERACIONAL\S.O), sendo a imagem de base, sendo responsável por armazenar o sistema de arquivos raiz (rootfs) também conhecido como root filesystem, e todos os diretórios e arquivos necessários para funcionamento dos containers são reduzidos ao mínimo, deixando a imagem de forma MINIMALISTA.

COMANDO: **ls -lhsa /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/HASH\_ID\_DA\_CAMADA\_QUE\_FORMA\_A\_IMAGEM\_DO\_DOCKER/diff**

EXEMPLO:

Texto alternativo gerado por máquina:
Places 
File Edit View Search 
AppUcaticns 
19:18 
drwx• 
17:59 
19:1 
19:1 
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19:18 
17:59 
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21 
drwx••••• . 
drwxr-xr-x 
drwr-xr-x 
29 
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drvxr-xr-x 
drwr-xr-x 
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drwr-xr-x 
drwxr-xr-x 
drvxr-xr-x 
19:18 
19:18 
drwxr-xr-x 
17 : 136 
drwxr-xr-x 
19:18 
19:18 
Terminal 
Terminal Help 
[ root@localhost teandrocgsil# s - 
1 a ,'var,' 1/ 
oc 
er/over 
total 4 
17401348 
25166728 
17401349 
9183924 
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9183914 
17401327 
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[ root@localhost teandrocgsil# s 
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25679432 
17401349 
7596417 
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1624191 
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[root@localhost leandrocgsil# Is 
total 8 
11608840 drwxr-xr-x. 3 root root 
9183924 drw--- 
. 4 root root 
17609841 3 roat roat 
[ root@localhost teandrocgsil# Is 
17 oct 25 19:18 . 
55 oct 25 19:18 . 
21 oct 13 14:48 run 
• ua ,'uar/1ib/docker/over1ay2/6e57cf58aed473508e538d6bbbBe1fb8459833B91ebB846cc8a8e3f64d1e214b/diff/ 
total B 
17608834 
9183917 
17609835 
25678983 
2288995 
17608838 
drwx--- - 
6 root 
4 root 
4 root 
2 root 
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[ root@localhost teandrocgsil& 15 
total 9 
17608575 druxr.xr.x. 3 root root 
9183914 
4 r oot r oot 
17608832 drvxr-xr-x. 3 r oot r oot 
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[root@localhost teandrocgsil& 
17:07 var 

**LAYER 1 (IMAGEM 1):** Nesta camada é onde instalamos as aplicações, como o Java por exemplo.

COMANDO: **ls -lhsa /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/HASH\_ID\_DA\_CAMADA\_QUE\_FORMA\_A\_IMAGEM\_DO\_DOCKER/diff**

EXEMPLO:

Texto alternativo gerado por máquina:
Places 
File Edit View Search 
AppUcaticns 
19:18 
drwx• 
17:59 
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drwr-xr-x 
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drwr-xr-x 
drwxr-xr-x 
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19:18 
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sbin 
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[ root@localhost teandrocgsil& 15 
total 9 
17608575 druxr.xr.x. 3 root root 
9183914 
4 r oot r oot 
17608832 drvxr-xr-x. 3 r oot r oot 
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[root@localhost teandrocgsil& 
17:07 var 

**LAYER 2 (IMAGEM 2):** Nesta camada é onde aplicamos as atualizações de patch\packges e posteriores configurações.

COMANDO: **ls -lhsa /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/HASH\_ID\_DA\_CAMADA\_QUE\_FORMA\_A\_IMAGEM\_DO\_DOCKER/diff**

EXEMPLO:

Texto alternativo gerado por máquina:
Places 
File Edit View Search 
AppUcaticns 
19:18 
17:59 
21 
drwx•••• • . 
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drwxr-xr-x 
drwr-xr-x 
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drwxr-xr-x 
drvxr-xr-x 
drwr-xr-x 
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drwr-xr-x 
drwxr-xr-x 
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19:18 
19:18 
Terminal 
Terminal 
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25166728 drwx..x..x. 
17401349 
9183924 drvrx- 
9183914 
17401327 brw... 
25166758 
14 root 
3 r oot 
4 root 
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19:18 26fe3155cc2f286d5b7d59f4ced4ac1942322cf2a42b251f3689e835aac96e87 
19:18 3e7dbtbe8t89d5a2a4ege686t965e2e6cQt2eea78ecQc96a8c9feQbb086bbfc3 
4 root root 
1 root root 
2 r oot r oot 
72 oct 25 19:18 
253, e oct 25 17:59 
142 oct 25 19:18 
[ root@localhost teandrocgsil# Is 
total 12 
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8418032 
17418875 
9152695 
17415832 
25671991 
1446613 
9152697 
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17:96 run 
s bin 
17:37 
17: 86 
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usr 
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var 
[ root@localhost Leandrocgsil# Is 
total 8 
11608840 drwxr-xr-x. 3 root root 
9183924 drw--- 
. 4 root root 
17 oct 25 19:18 . 
55 oct 25 19:18 
17609841 3 roat r 
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total B 
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5678983 drwxr.xr.x 
2288995 dr.xr-xr-x 
1608838 drwxr-xr-x 
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total 9 
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9183914 
17608832 drwxr-xr-x. 
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17:07 var 
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[ root@localhost teandrocgsil& 

**LAYER 3 (IMAGEM 3):** Esta é a camada de UNION MOUNTS, onde o docker lida com o UNION MOUNTS da seguinte maneira: O docker monta como somente leitura todas as 3 camadas padrões que formam uma imagem, e então, cria uma 4º camada acima das demais, onde está 4º camada possui permissão de leitura e gravação (RW (READ e WRITE)), e quando um container é iniciado, as questões de permissões na sessão do shell do container em qestão rodam sobre esta 4º camada.

COMANDO: **ls -lhsa /var/lib/docker/NOME\_DO\_STORAGE\_DRIVE\_EM\_QUESTÃO/HASH\_ID\_DA\_CAMADA\_QUE\_FORMA\_A\_IMAGEM\_DO\_DOCKER/diff**

EXEMPLO:

Texto alternativo gerado por máquina:
Places 
File Edit View Search 
AppUcaticns 
19:18 
17:59 
drwx--- 
19:18 
drwx---- 
19:18 
drwx------, 
19:18 
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21 
drwx••••••. 
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drwxr-xr-x 
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drwr-xr-x 
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Terminal 
Terminal 
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26 fe3155cc2f 286d5b7d59 ed4ac1942322cf2a42b251 f3689e835aac96e87 
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[ root@localhost teandrocgsil# Is 
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var 
[ root@localhost Leandrocgsil# Is 
total 8 
11608840 drwxr-xr-x. 3 root root 
9183924 drw--- 
. 4 root root 
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[ root@localhost teandrocgsil# Is 
17 oct 25 19:18 . 
55 oct 25 19:18 . 
21 oct 13 14:48 run 
• ua ,'uar/1ib/docker/over1ay2/6e57cf58aed473508e538d6bbbBe1fb8459833B91ebB846cc8a8e3f64d1e214b/diff/ 
total B 
17608834 
9183917 
17609835 
25678983 
2288995 
17608838 
6 root 
4 root 
4 root 
2 root 
3 r oot 
3 root 
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roo t 
root 
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51 
72 
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25 
25 
18 
18 
18 
10 
25 
14 
14 
: 48 
248 
[ root@localhost teandrocgsil 
total 9 
17608575 druxr.xr.x. 
drvxr-xr-x. 
roo oca os 
ean 
3 root 
J r oot 
rocgsl 
17 oct 
19 oct 
etc 
sbin 
usr 
var 
var 