```
As imagens baixadas são armazenadas no diretório

/var/lib/docker/overlay2/
```

```
root@war-machine:/var/lib/docker/overlay2# ls -lia
total 24
132325 drwx--x--- 6 root root 4096 ago 11 07:01 .
132325 drwx--x--- 13 root root 4096 ago 11 06:18 ..
132317 drwx--x--- 13 root root 4096 ago 11 06:18 ..
794965 drwx--x--- 4 root root 4096 ago 11 07:11 fa954bbdd7e204180318fc74841156271fab5dfc5a2514abd82962a9f2127531
794959 drwx--x--- 4 root root 4096 ago 11 07:01 fa954bbdd7e204180318fc74841156271fab5dfc5a2514abd82962a9f2127531-init
786454 drwx--x--- 3 root root 4096 ago 11 07:01 ffe0efe9708bc89be62fc779f3d226474e8b59752e94bfa53ca8ed7d6f26ea6f
132361 drwx----- 2 root root 4096 ago 11 07:01 l
```

Figura 1: Lista todas as camadas da imagem

```
root@war-machine:/var/lib/docker/overlay2# ls -lia fa954bbdd7e204180318fc74841156271fab5dfc5a2514abd82962a9f2127531/diff/
total 40
794978 drwxr-xr-x 7 root root 4096 ago 11 07:01 .
794965 drwxr-xr-x 3 root root 4096 ago 11 07:07 etc
1048632 drwxr-xr-x 3 root root 4096 ago 11 07:07 etc
1050521 dr-xr-x--- 2 root root 4096 ago 11 07:11 root
917508 drwxrwxrwt 2 root root 4096 ago 11 07:10 tmp
794989 drwxr-xr-x 7 root root 4096 mai 6 07:10 usr
795006 drwxr-xr-x 6 root root 4096 mai 6 07:10 usr
795006 drwxr-xr-x 6 root root 4096 mai 6 07:10 var
root@war-machine:/var/lib/docker/overlay2# ls -lia fa954bbdd7e204180318fc74841156271fab5dfc5a2514abd82962a9f2127531/diff/tmp/
total 12
917508 drwxrwxrwt 2 root root 4096 ago 11 07:08 .
794978 drwxr-xr-x 7 root root 4096 ago 11 07:08 .
794978 drwxr-xr-x 7 root root 4096 ago 11 07:01 ..
917545 -rw-r--r-- 1 root root 29 ago 11 07:01 ..
917545 -rw-r--r-- 1 root root 29 ago 11 07:08 teasure
root@war-machine:/var/lib/docker/overlay2# cat fa954bbdd7e204180318fc74841156271fab5dfc5a2514abd82962a9f2127531/diff/tmp/teasure
I will be the Pirate's King.
```

Figura 2: Ao acessar a camada de update, podemos notar que exibido uma lista de diretórios, onde está localizado as alterações feitas no contêiner

```
[root@localhost leandrocgsi]# ls -lia /var/lib/docker/overlay2/26fe3155cc2f286d5b7d59f4ced4ac1942322cf2a42b251f3689e835aac96e87/diff/
total 12
25670432 drwxr-xr-x. 21 root root 224 Oct 25 19:18
17481349 drwxr-xr-x. 2 root root 47 Oct 25 19:18 ...
17596417 drwxr-xr-x. 2 root root 4096 Oct 10 17:07 bin
25670434 drwxr-xr-x. 2 root root 6 Apr 24 2018 boot
1624101 drwxr-xr-x. 2 root root 6 Oct 10 17:07 dev
                                                               6 Apr 24 2018 boot
6 Oct 10 17:07 dev
9152992 drwxr-xr-x. 2 root root 4096 Oct 10 17:07 etc
8410032 drwxr-xr-x. 2 root root 6 Apr 24 2018 nome
17410875 drwxr-xr-x. 8 root root 96 May 23 2017 lib
9152695 drwxr-xr-x. 2 root root 34 Oct 10 17:06 lib6
                                                              96 May 23 2017 lib
34 Oct 10 17:06 lib64
9152695 drwxr-xr-x. 2 root root
17415832 drwxr-xr-x. 2 root root
                                                                6 Oct 10 17:06 media
17415832 drwxr-xr-x. 2 root root
1446613 drwxr-xr-x. 2 root root
9152697 drwxr-xr-x. 2 root root
17415833 drwx-----. 2 root root
                                                                6 Oct 10 17:06 mnt
                                                                6 Oct 10 17:06 opt
                                                              6 Apr 24 2018 proc
37 Oct 10 17:07 root
25671992 drwxr-xr-x. 4 root root 43 Oct 10 17:06 run
17450114 drwxr-xr-x. 2 root root 4096 Oct 10 17:07 sbin
25671994 drwxr-xr-x.
                                     2 root root
                                                                6 Oct 10 17:06
 1446616 drwxr-xr-x. 2 root root
                                                                6 Apr 24 2018 sys
9152700 drwxrwxrwt. 2 root root 6 Oct 10 17:07 tmo
17596607 drwxr-xr-x. 10 root root 105 Oct 10 17:06 usr
 9227268 drwxr-xr-x. 11 root root 139 Oct 10 17:07 var
                                                                                                                          a9f80d5575400a686f065a7a6r0f7aa578ar0r0658r0fa06h0866hfr5/diff/
```

Figura 3: Camada base

```
[root@localhost leandrocgsi]# ls -lia /var/lib/docker/overlay2/5e7dbfbe8f89d5a2a409e686f065e2e6c0f2eea78ec0c96a8c9fe06b0866bfc5/diff/
total 0
17660840 drwxr-xr-x. 3 root root 17 Oct 25 19:18 .
17660841 drwxr-xr-x. 3 root root 55 Oct 25 19:18 .
17660841 drwxr-xr-x. 3 root root 21 Oct 18 14:48 run
```

Figura 4: Camada intermediária, também conhecida como camada de aplicação

```
[root@localhost leandrocgsi]# ls -lia /var/lib/docker/overlay2/6e57cf58aed473508e538d6bbb0e1fb8459833091eb0846cc0a8e3f64d1e214b/diff/total 0
17600834 drwxr-xr-x. 6 root root 51 Oct 25 19:18 .
17600835 drwxr-xr-x. 4 root root 72 Oct 25 19:18 .
17600835 drwxr-xr-x. 4 root root 29 Oct 18 14:48 etc
25670983 drwxr-xr-x. 2 root root 21 Oct 18 14:48 sbin
2288995 drwxr-xr-x. 3 root root 18 Oct 10 17:00 usr
17600838 drwxr-xr-x. 3 root root 17 Oct 10 17:07 var
[root@localhost leandrocgsi]# ■
```

Figura 5: Camada Superior - Os diretórios da camada superior irão sobrescrever diretórios os da camada base

```
[root@localhost leandrocgsi]# ls -lia /var/lib/docker/overlay2/9fbf879946b90633e615732e3784719c286e6e6881c5a11330a278cea0350fb7/diff/total 0
17600575 drwxr-xr-x. 3 root root 17 Oct 25 19:18 .
9183914 drwx-----. 4 root root 72 Oct 25 19:18 .
17600832 drwxr-xr-x. 3 root root 19 Oct 10 17:07 var
```

Figura 6: Camada de leitura e escrita