Saving and Loading Images

Sunday, 4 August 2019 8:09 PM

The Docker CLI allows us to export and import Docker images and container layers using export/import or save/load Docker commands

The difference between save/load and export/import is that the first one works with images including metadata, but the export/import combination uses only container layers and doesn't include any image metadata information such as name, tags, and so on. In most cases, the save/load combination is more relevant and works properly for images without special needs

The dockersave command packs the layers and metadata of all the chains required to build the image. You can then load this *saved* images chain into another Docker instance and create containers from these images.

njain50@ubuntu:~/dockerdemo\$ docker pull redis
Using default tag: latest
latest: Pulling from library/redis
f5d23c7fed46: Pull complete
831c20fd50cb: Pull complete
bc2a0f25caa5: Pull complete
745ac314a007: Pull complete
6deeca231441: Pull complete
6291e84f5373: Pull complete
Digest: sha256:854715f5cd1b64d2f62ec219a7b7baceae149453e4d29a8f72cecbb5ac51c4ad
Status: Downloaded newer image for redis:latest
njain50@ubuntu:~/dockerdemo\$ docker save redis -o redis.tar

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```
total 99200
-rw-rw-r-- 1 njain50 njain50 141 Aug 3 08:25 Dockerfile
-rw----- 1 njain50 njain50 101574656 Aug 4 05:53 redis.tar
njain50@ubuntu:~/dockerdemo$
```

Now delete image in cache first:

```
njain50@ubuntu:~/dockerdemo$ docker rmi 85/c4ab5f029
Untagged: redis:latest
Untagged: redis@sha256:854715f5cdlb64d2f62ec219a7b7baceae149453e4d29a8f72cecbb5ac51c4ad
Deleted: sha256:857c4ab5f029lecbb4de238be9d5f9676e63dcc9608f70c8acc3748fe9689911
Deleted: sha256:cf813lebc8cf48e212a6cba652c19328eb997fa360e59dfcld5ae4e9841e52d6
Deleted: sha256:ad2aeea9a0026ba9194c4143de8846e93cea2a885lac1c30b669c0c1040c4798
Deleted: sha256:e7a18a4c63c68b5c3848d87b970aea938032e78a14093b794e3bc8cfac4b3ab7
Deleted: sha256:2de5fabe69e135fd6c8e3ac5d5537d8943b9e964ec3b542eabc3b97ae810a4a2
Deleted: sha256:64c3e67d2d7fdeb252803ce9ed76375c756327bf88cc072b22c0fdle24a9af2e
Deleted: sha256:d8a33133e477d367977987129313d9072e0ec80894ed4c52c2d88186f354c29a
njain50@ubuntu:~/dockerdemo$
```

Now when we load image from tar, we can again generate same image from it:

```
njain50@ubuntu:~/dockerdemo$
                                                              CREATED
REPOSITORY
                    TAG
                                         IMAGE ID
njain50@ubuntu:~/dockerdemo$ docker ps
CONTAINER ID
                                         COMMAND
                                                              CREATED
                                                                                   STATUS
                                                                                                        PORTS
                                                                                                                            NAMES
                    IMAGE
njain50@ubuntu:~/dockerdemo$ docker load -i redis.tar
d8a33133e477: Loading layer [
                                                                                      72.47MB/72.47MB
0a7b72b28690: Loading layer
                                                                                      338.4kB/338.4kB
4b66eec92efl: Loading layer
                                                                                      4.079MB/4.079MB
                                                                                     24.65MB/24.65MB
f448714fe70e: Loading layer
8ffc0dea4ded: Loading layer
                                                                                      1.536kB/1.536kB
6bbfe33be022: Loading layer
                                                                                      3.584kB/3.584kB
Loaded image: redis:latest
njain50@ubuntu:~/dockerdemo$ docker images
                                         TMAGE ID
REPOSITORY
                    TAG
                                                              CREATED
                                         857c4ab5f029
                                                                                   98.2MB
redis
                    latest
                                                              2 days ago
njain50@ubuntu:~/dockerdemo$ 🛚
```