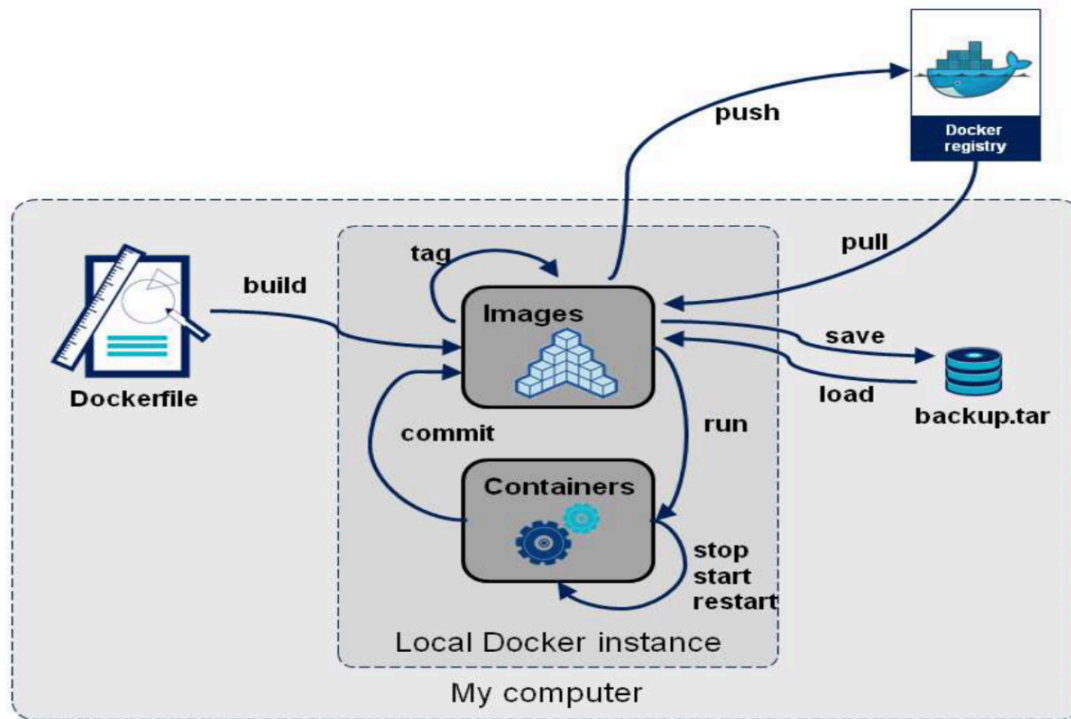


Saving Images and Containers as Tar Files for Sharing



Four basic Docker CLI comes into action:

- The `docker export` - Export a container's filesystem as a tar archive
- The `docker import` - Import the contents from a tarball to create a filesystem image
- The `docker save` - Save one or more images to a tar archive (streamed to STDOUT by default)
- The `docker load` - Load an image from a tar archive or STDIN

Create Nginx Container

```
docker run -d -p 80:80 nginx
```

```
#####
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 80:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
e4fff0779e6d: Pull complete
2a0cb278fd9f: Pull complete
7045d6c32ae2: Pull complete
03de31afb035: Pull complete
0f17be8dcff2: Pull complete
14b7e5e8f394: Pull complete
23fa5a7b99a6: Pull complete
Digest: sha256:447a8665cc1dab95b1ca778e162215839ccbb9189104c79d7ec3a81e14577add
Status: Downloaded newer image for nginx:latest
cbc263d65f81e380e75ef6baf8324cf6ba13636c583bcea3df3ac65225b0ae2f
[node1] (local) root@192.168.0.8 ~
```

Displaying Running Container

```
docker ps -a
```

```
$ docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                    NAMES
cbc263d65f81   nginx    "/docker-entrypoint..." 35 seconds ago Up 34 seconds 0.0.0.0:80->80/tcp      stoic_meitner
[node1] (local) root@192.168.0.8 ~
$
```

```
docker export cbc > nginx.tar
```

```
$ docker export cbc > nginx.tar
[node1] (local) root@192.168.0.8 ~
```

```
$ ls -l
total 185688
-rw-r--r--    1 root    root      190141952 Aug 18 15:56 nginx.tar
[node1] (local) root@192.168.0.8 ~
```

You could commit this container as a new image locally, but you could also use the Docker import command:

```
docker import - mynginx < nginx.tar
```

```
$ docker import - mynginx < nginx.tar
sha256:63c3c3eede0949009759773bde0910822f5720e43aa53ff56be89bd8d409c281
[node1] (local) root@192.168.0.8 ~
```

```
docker images
```

```
$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mynginx	latest	63c3c3eede09	24 seconds ago	186MB
nginx	latest	5ef79149e0ec	3 days ago	188MB

```
[node1] (local) root@192.168.0.8 ~
```

If you wanted to share this image with one of your collaborators, you could upload the tar file on a web server and let your collaborator download it and use the import command on his Docker host.

If you would rather deal with images that you have already committed, you can use the load and save commands:

```
docker save -o mynginx1.tar nginx
```

```
$ docker save -o mynginx1.tar nginx
```

```
[node1] (local) root@192.168.0.8 ~
```

```
ls -l
```

```
$ ls -l
```

permissions	links	owner	group	size	date	time	file
-rw-----	1	root	root	191853568	Aug 18	15:58	mynginx1.tar
-rw-r--r--	1	root	root	190141952	Aug 18	15:56	nginx.tar

```
[node1] (local) root@192.168.0.8 ~
```

```
docker rmi mynginx
```

```
[node1] (local) root@192.168.0.8 ~
```

```
$ docker rmi mynginx
```

```
Untagged: mynginx:latest
```

```
Deleted: sha256:63c3c3eede0949009759773bde0910822f5720e43aa53ff56be89bd8d409c281
```

```
Deleted: sha256:8da77e26a7d6bf8c8c6889ebe0de64dfaa3c0ae7353209968eaf3be338ad77c5
```

```
[node1] (local) root@192.168.0.8 ~
```

```
$
```

Now deleted mynginx image

```
docker images
```

```
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         latest    5ef79149e0ec   3 days ago    188MB
[node1] (local) root@192.168.0.8 ~
$
```

```
docker rmi -f nginx:latest
```

```
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
[node1] (local) root@192.168.0.8 ~
$
```

```
docker load < mynginx1.tar
```

```
$ docker load < mynginx1.tar
Loaded image: nginx:latest
[node1] (local) root@192.168.0.8 ~
$
```

```
docker images
```

```
[node1] (local) root@192.168.0.8 ~
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         latest    5ef79149e0ec   3 days ago    188MB
[node1] (local) root@192.168.0.8 ~
$
```