How to build Your First Alpine Docker Image and Push it to DockerHub

Under this tutorial we will see how to build our own first alpine based Docker Image.

```
docker run -dit alpine sh
```

620e1bcb5ab6e84b75a7a5c35790a77691112e59830ea1d5d85244bc108578c9
[node4] (local) root@192.168.0.20 ~

```
docker ps
```

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
620e1bcb5ab6 alpine "sh" 3 seconds ago Up 2 seconds keen_albattani

[node4] (local) root@192.168.0.20 ~

```
docker attach 62
```

/ #
/ #
/ # `cat /etc/os-release`
NAME="Alpine Linux"
ID=alpine
VERSION_ID=3.9.2
PRETTY_NAME="Alpine Linux v3.9"
HOME_URL="https://alpinelinux.org/"
BUG_REPORT_URL="https://bugs.alpinelinux.org/"
/ #

Updating APK Packages

/ # `apk update`
fetch http://dl-cdn.alpinelinux.org/alpine/v3.9/main/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.9/community/x86_64/APKINDEX.tar.gz
v3.9.2-21-g3dda2a36ce [http://dl-cdn.alpinelinux.org/alpine/v3.9/main]
v3.9.2-19-gfdf726d41a [http://dl-cdn.alpinelinux.org/alpine/v3.9/community]
OK: 9756 distinct packages available

/ # `apk add git`
(1/7) Installing ca-certificates (20190108-r0)
(2/7) Installing nghttp2-libs (1.35.1-r0)
(3/7) Installing libssh2 (1.8.0-r4)
(4/7) Installing libcurl (7.64.0-r1)
(5/7) Installing expat (2.2.6-r0)
(6/7) Installing pcre2 (10.32-r1)
(7/7) Installing git (2.20.1-r0)

```
Executing busybox-1.29.3-r10.trigger
Executing ca-certificates-20190108-r0.trigger
OK: 20 MiB in 21 packages
/ #
```

Now lets come out of it by Ctrl+P+Q and commit the changes

```
docker ps
```

```
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
620e1bcb5ab6        alpine              "sh"                4 minutes ago       Up 4 minutes                            keen_albattani
[node4] (local) root@192.168.0.20 ~
 docker commit -m "Added GIT" 620 ajeetraina/alpine-git
sha256:9a8cd6c3bd8761013b2b932c58af2870f5637bfdf4227d7414073b0458ed0c54
[node4] (local) root@192.168.0.20 ~
 docker images
REPOSITORY                  TAG                 IMAGE ID            CREATED             SIZE
ajeetraina/alpine-git       latest              9a8cd6c3bd87        11 seconds ago      31.2MB
ubuntu                      latest              94e814e2efa8        3 days ago          88.9MB
alpine                      3.6                 43773d1dba76        7 days ago          4.03MB
alpine                      3.7                 6d1ef012b567        7 days ago          4.21MB
alpine                      3.8                 dac705114996        7 days ago          4.41MB
alpine                      3.9                 5cb3aa00f899        7 days ago          5.53MB
alpine                      latest              5cb3aa00f899        7 days ago          5.53MB
```

There you see a new image just created.

Time to tag the image

```
docker tag --help
```

```
Usage:  docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
[node4] (local) root@192.168.0.20 ~
docker tag ajeetraina/alpine-git:latest ajeetraina/alpine-git:1.0
```

```
docker images
```

```
REPOSITORY                  TAG                 IMAGE ID            CREATED             SIZE
ajeetraina/alpine-git       1.0                 9a8cd6c3bd87        2 minutes ago       31.2MB
ajeetraina/alpine-git       latest              9a8cd6c3bd87        2 minutes ago       31.2MB
ubuntu                      latest              94e814e2efa8        3 days ago          88.9MB
alpine                      3.6                 43773d1dba76        7 days ago          4.03MB
alpine                      3.7                 6d1ef012b567        7 days ago          4.21MB
alpine                      3.8                 dac705114996        7 days ago          4.41MB
```

alpine	3.9	5cb3aa00f899	7 days ago	5.53MB
alpine	latest	5cb3aa00f899	7 days ago	5.53MB

Pushing it to DockerHub

```
docker login
```

Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker
.com to create one.
Username: ajeetraina
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[node4] (local) root@192.168.0.20 ~

```
docker push ajeetraina/alpine-git:1.0
```

The push refers to repository [docker.io/ajeetraina/alpine-git]
3846235f8c17: Pushed
bcf2f368fe23: Mounted from library/alpine
1.0: digest: sha256:85d50f702e930db9e5b958387e667b7e26923f4de340534085cea184adb8411e size: 740
[node4] (local) root@192.168.0.20 ~