

WORKING WITH DOCKER IMAGES

- 1) The first step was to begin by logging in to the lab server using the credentials provided using the command `ssh username@public_IP_address`.
- 2) Next, to pull the latest `alpine` image from Docker Hub, use the command `docker image pull alpine:latest`.

```
/ $ ssh cloud_user@34.228.238.18

Host '34.228.238.18' is not in the trusted hosts file.
(ssh-ed25519 fingerprint sha1!! 66:09:03:2e:12:59:79:89:70:32:e1:77:92:51:f9:63:37:97:15:98)
Do you want to continue connecting? (y/n) y
cloud_user@34.228.238.18's password:
[cloud_user@ip-10-0-1-26 ~]$ docker pull alpine: latest
"docker pull" requires exactly 1 argument.
See 'docker pull --help'.

Usage:  docker pull [OPTIONS] NAME[:TAG|@DIGEST]

Pull an image or a repository from a registry
[cloud_user@ip-10-0-1-26 ~]$ docker pull alpine:latest
latest: Pulling from library/alpine
df9b9388f04a: Pull complete
Digest: sha256:4edbd2beb5f78b1014028f4fbb99f3237d9561100b6881aabbf5acce2c4f9454
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
```

- 3) Confirm the image is there by using `docker images`.
- 4) Next, to pull the latest `httpd` image, use the command `docker pull httpd:latest`.

```
[cloud_user@ip-10-0-1-26 ~]$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
alpine        latest    0ac33e5f5afa   2 weeks ago    5.57MB
[cloud_user@ip-10-0-1-26 ~]$ docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
1fe172e4850f: Pull complete
e2fa1fe9b1ec: Pull complete
60dd7398e74e: Pull complete
ea2ca81c6d4c: Pull complete
f646c69a26ec: Pull complete
Digest: sha256:e02a2ef36151905c790efb0a8472f690010150f062639bd8c0760e7b1e884c07
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
```

- 5) Pull `nginx` version 1.15 using `docker pull nginx:1.15`.
- 6) Confirm the image is there by using `docker images`.

```
[cloud_user@ip-10-0-1-26 ~]$ docker pull nginx:1.15
1.15: Pulling from library/nginx
743f2d6c1f65: Pull complete
6bfc4ec4420a: Pull complete
688a776db95f: Pull complete
Digest: sha256:23b4dcdf0d34d4a129755fc6f52e1c6e23bb34ea011b315d87e193033bcd1b68
Status: Downloaded newer image for nginx:1.15
docker.io/library/nginx:1.15
[cloud_user@ip-10-0-1-26 ~]$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
httpd	latest	c30a46771695	38 hours ago	144MB
alpine	latest	0ac33e5f5afa	2 weeks ago	5.57MB
nginx	1.15	53f3fd8007f7	2 years ago	109MB

- 7) Look at the history for both the `httpd` and `nginx` images by using `docker history httpd` and `docker history nginx`. The second command gives an error since the latest version is assumed.

```
[cloud_user@ip-10-0-1-26 ~]$ docker history httpd
```

IMAGE	CREATED	CREATED BY	SIZE	COMMENT
c30a46771695	38 hours ago	/bin/sh -c #(nop) CMD ["httpd-foreground"]	0B	
<missing>	38 hours ago	/bin/sh -c #(nop) EXPOSE 80	0B	
<missing>	38 hours ago	/bin/sh -c #(nop) COPY file:c432ff61c4993ecd...	138B	
<missing>	38 hours ago	/bin/sh -c #(nop) STOPSIGNAL SIGWINCH	0B	
<missing>	38 hours ago	/bin/sh -c set -eux; savedAptMark="\$(apt-m...	60.6MB	
<missing>	38 hours ago	/bin/sh -c #(nop) ENV HTTPD_PATCHES=	0B	
<missing>	38 hours ago	/bin/sh -c #(nop) ENV HTTPD_SHA256=d0bbd112...	0B	
<missing>	38 hours ago	/bin/sh -c #(nop) ENV HTTPD_VERSION=2.4.53	0B	
<missing>	38 hours ago	/bin/sh -c set -eux; apt-get update; apt-g...	2.63MB	
<missing>	38 hours ago	/bin/sh -c #(nop) WORKDIR /usr/local/apache2	0B	
<missing>	38 hours ago	/bin/sh -c mkdir -p "\$HTTPD_PREFIX" && chow...	0B	
<missing>	38 hours ago	/bin/sh -c #(nop) ENV PATH=/usr/local/apach...	0B	
<missing>	38 hours ago	/bin/sh -c #(nop) ENV HTTPD_PREFIX=/usr/loc...	0B	
<missing>	43 hours ago	/bin/sh -c #(nop) CMD ["bash"]	0B	
<missing>	43 hours ago	/bin/sh -c #(nop) ADD file:8b1e79f91081eb527...	80.4MB	

```
[cloud_user@ip-10-0-1-26 ~]$
```

- 8) The command succeeds when given the right version ie `Docker history nginx:1.15`.

```
[cloud_user@ip-10-0-1-26 ~]$ docker history nginx
Error response from daemon: No such image: nginx:latest
[cloud_user@ip-10-0-1-26 ~]$ docker history nginx:1.15
```

IMAGE	CREATED	CREATED BY	SIZE	COMMENT
53f3fd8007f7	2 years ago	/bin/sh -c #(nop) CMD ["nginx" "-g" "daemon...	0B	
<missing>	2 years ago	/bin/sh -c #(nop) STOPSIGNAL SIGTERM	0B	
<missing>	2 years ago	/bin/sh -c #(nop) EXPOSE 80	0B	
<missing>	2 years ago	/bin/sh -c ln -sf /dev/stdout /var/log/nginx...	22B	
<missing>	2 years ago	/bin/sh -c set -x && apt-get update && apt...	54.1MB	
<missing>	2 years ago	/bin/sh -c #(nop) ENV NJS_VERSION=1.15.12.0...	0B	
<missing>	2 years ago	/bin/sh -c #(nop) ENV NGINX_VERSION=1.15.12...	0B	
<missing>	2 years ago	/bin/sh -c #(nop) LABEL maintainer=NGINX Do...	0B	
<missing>	2 years ago	/bin/sh -c #(nop) CMD ["bash"]	0B	
<missing>	2 years ago	/bin/sh -c #(nop) ADD file:fc9328ea4c115670...	55.3MB	

```
[cloud_user@ip-10-0-1-26 ~]$
```