```
WARNING!!!!
# This is a sandbox environment. Using personal credentials
is HIGHLY! discouraged. Any consequences of doing so are
completely the user's responsibilites.
The PWD team.
[nodel] (local) root@192.168.0.28 ~
$ Gopal Kumar ^C
[node1] (local) root@192.168.0.28 ~
$ git clone https://github.com/dockersamples/linux tweet app
Cloning into 'linux tweet app'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 14 (delta 4), reused 4 (delta 4), pack-reused 6
Receiving objects: 100% (14/14), 10.79 KiB | 10.79 MiB/s, done.
Resolving deltas: 100% (5/5), done.
[node1] (local) root@192.168.0.28 ~
                                                                              $ docker container run alpine hostname
                     Unable to find image 'alpine: latest' locally
latest: Pulling from library/alpine
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latest: Pulling from library/alpine
31e352740f53: Pull complete
Digest: sha256:82d1e9d7ed48a7523bdebc18cf6290bdb97b82302a8a9c27d4fe885949ea94d1
Status: Downloaded newer image for alpine:latest
7cec5631a3f8
[node1] (local) root@192.168.0.28 ~
$ docker container ls --all
CONTAINER ID
              IMAGE
                        COMMAND
                                     CREATED
                                                      STATUS
                                                                                 PORTS
                                                                                           NAMES
7cec5631a3f8 alpine "hostname" 15 seconds ago
                                                     Exited (0) 14 seconds ago
                                                                                           romantic spence
[node1] (local) root@192.168.0.28 ~
$ docker container run --interactive --tty --rm ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
3153aa388d02: Pull complete
Digest: sha256:0bced47fffa3361afa981854fcabcd4577cd43cebbb808cea2b1f33a3dd7f508
Status: Downloaded newer image for ubuntu:latest
root@fc2485ffc6ba:/# ls /
bin dev home lib32 libx32 mnt proc run
                                                         var
boot etc lib lib64 media
                              opt root
                                         sbin
                                               SVS
root@fc2485ffc6ba:/# ps aux
USER
          PID %CPU %MEM
                                 RSS TTY
                                              STAT START
                                                          TIME COMMAND
                                                 14:16
                                                          0:00 bash
root
            1 0.4 0.0
                          4616 3856 pts/0
                                              Ss
```

```
root
                    0.0
                           7052 1608 pts/0
                                                    14:16
                                                            0:00 ps aux
root@fc2485ffc6ba:/# cat /etc/issue
Ubuntu 22.04.2 LTS \n \1
root@fc2485ffc6ba:/# exit
exit
[node1] (local) root@192.168.0.28 ~
$ cat /etc/issue
Welcome to Alpine Linux 3.18
Kernel \r on an \m (\l)
[node1] (local) root@192.168.0.28 ~
$ docker container run \
> --detach \
> --name mydb \
> -e MYSQL ROOT PASSWORD=my-secret-pw \
> mysql:latest
Unable to find image 'mysgl:latest' locally
latest: Pulling from library/mysql
e2c03c89dcad: Pull complete
68eb43837bf8: Pull complete
796892ddf5ac: Pull complete
```

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latest: Pulling from library/mysql
e2c03c89dcad: Pull complete
68eb43837bf8: Pull complete
796892ddf5ac: Pull complete
6bca45eb31e1: Pull complete
ebb53bc0dcca: Pull complete
2e2c6bdc7a40: Pull complete
6f27b5c76970: Pull complete
438533a24810: Pull complete
e5bdf19985e0: Pull complete
667fa148337b: Pull complete
5baa702110e4: Pull complete
Digest: sha256:232936eb036d444045da2b87a90d48241c60b68b376caf509051cb6cffea6fdc
Status: Downloaded newer image for mysql:latest
a8158e9ed4da8b2b1a9eee2d2964abecf94740bc2cf18b91654ec6cbe3db7990
[node1] (local) root@192.168.0.28 ~
$ docker container logs ls
Error response from daemon: No such container: 1s
[node1] (local) root@192.168.0.28 ~
$ 1s
linux tweet app
[node1] (local) root@192.168.0.28 ~
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linux tweet app
[node1] (local) root@192.168.0.28 ~
S docker container ls
CONTAINER ID IMAGE
                             COMMAND
                                                      CREATED
                                                                       STATUS
                                                                                       PORTS
                                                                                                              NAMES
a8158e9ed4da mysgl:latest "docker-entrypoint.s..." 49 seconds ago Up 47 seconds 3306/tcp, 33060/tcp
                                                                                                              mydb
[node1] (local) root@192.168.0.28 ~
$ docker container top mydb
PID
                   USER
                                       TIME
                                                           COMMAND
1563
                   999
                                       0:01
                                                           mysqld
[node1] (local) root@192.168.0.28 ~
$ docker exec -it mydb \
> mysql --user=root --password=$MYSQL ROOT PASSWORD --version
mysql: [Warning] Using a password on the command line interface can be insecure.
mysgl Ver 8.0.33 for Linux on x86 64 (MySOL Community Server - GPL)
[node1] (local) root@192.168.0.28 ~
$ docker exec -it mydb sh
sh-4.4# mysql --user=root --password=$MYSQL ROOT PASSWORD --version
mysql: [Warning] Using a password on the command line interface can be insecure.
mysql Ver 8.0.33 for Linux on x86 64 (MySQL Community Server - GPL)
sh-4.4# exit
exit
[node1] (local) root@192.168.0.28 ~
```

```
exit.
[node1] (local) root@192.168.0.28 ~
$ cd ~/linux tweet app
[node1] (local) root@192.168.0.28 ~/linux tweet app
S cat Dockerfile
FROM nginx:latest
COPY index.html /usr/share/nginx/html
COPY linux.png /usr/share/nginx/html
EXPOSE 80 443
CMD ["nginx", "-g", "daemon off;"]
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ echo $DOCKERID
[nodel] (local) root@192.168.0.28 ~/linux tweet app
$ docker image build --tag $DOCKERID/linux tweet app:1.0 .
[+] Building 0.0s (0/0)
ERROR: invalid tag "/linux tweet app:1.0": invalid reference format
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image build
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[node1] (local) root@192.168.0.28 ~/linux tweet app
S echo SDOCKERID
gopa17361
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image build --tag $DockerID/linux tweet app:1.0 .
[+] Building 0.0s (0/0)
ERROR: invalid tag "/linux tweet app:1.0": invalid reference format
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image build --tag $DockerID/linux tweet app:1.0 .
[+] Building 0.0s (0/0)
ERROR: invalid tag "/linux tweet app:1.0": invalid reference format
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image build --tag $DOCKERID/linux tweet app:1.0 .
[+] Building 9.7s (8/8) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 186B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [1/3] FROM docker.io/library/nginx:latest@sha256:08bc36ad52474e528c 9.0s
=> => resolve docker.io/library/nginx:latest@sha256:08bc36ad52474e528c 0.0s
=> => sha256:1bb5c4b86cb7c1e9f0209611dc2135d8a2c1c3a64 1.78kB / 1.78kB 0.0s
```

=> => sha256:1bb5c4b86cb7c1e9f0209611dc2135d8a2c1c3a64 1.78kB / 1.78kB	0.0s
	0.4s
=> => sha256:cf707e2339551222cafe3bf835fddfb859f26bf59058b 625B / 625B	0.0s
=> => sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a1303 1.86kB / 1.86kB	0.0s
=> => sha256:021283c8eb95be02b23db0de7f609d603553c6714 8.15kB / 8.15kB	0.05
=> sha256:76579e9ed380849b4d22696f292770963b5ea91 41.46MB / 41.46MB	0.6s
=> sha256:91bb7937700d7d3496cf43cb0012e5f818064fecb766b 959B / 959B	0.1s
=> sha256:4b962717ba558b7dfabe88c40e20ac86844b132015b66 367B / 367B	0.2s
=> => sha256:f46d7b05649a846d7e24418b6ecea3b1efbdac88d 1.21kB / 1.21kB	0.2s
=> => sha256:103501419a0aecf94398ffcc7404f22931d9b89bb 1.41kB / 1.41kB	0.2s
=> extracting sha256:faef57eae888cbe4a5613eca6741b5e48d768b83f60888	4.0s
=> extracting sha256:76579e9ed380849b4d22696f292770963b5ea917a45ef7	3.4s
=> extracting sha256:cf707e2339551222cafe3bf835fddfb859f26bf59058b3	0.0s
=> extracting sha256:91bb7937700d7d3496cf43cb0012e5f818064fecb766bd	0.0s
=> extracting sha256:4b962717ba558b7dfabe88c40e20ac86844b132015b660	0.0s
=> extracting sha256:f46d7b05649a846d7e24418b6ecea3b1efbdac88d36163	0.0s
=> extracting sha256:103501419a0aecf94398ffcc7404f22931d9b89bbb6021	0.0s
=> [internal] load build context	0.0s
=> => transferring context: 24.04kB	0.0s
=> [2/3] COPY index.html /usr/share/nginx/html	0.1s
=> [3/3] COPY linux.png /usr/share/nginx/html	0.1s
=> exporting to image	0.0s

```
=> exporting to image
[nodel] (local) root@192.168.0.28 ~/linux tweet app
$ docker container run \
> --detach \
> --publish 80:80 \
> --name linux tweet app \
> $DOCKERID/linux tweet app:1.0
8c99485adc33f0103f1c9a2feb42752c4b40439631a2fd51a93b968de77ddaee
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker container rm --force linux tweet app
linux tweet app
[node1] (local) root@192.168.0.28 ~/linux tweet app
S docker container run \
> --deatch \
> --publiah 80:80 \
> --name linux tweet app \
> --mount type=bind, source="$(pwd)", target=/usr/share/nginx/html \
> $DOCKERID/linux tweet app:1.0
unknown flag: --deatch
```

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inknown flag: --deatch
See 'docker container run --help'.
[node1] (local) root@192.168.0.28 ~/linux tweet app
docker container run --detach --publiah 80:80 --name linux tweet app --mount type=bind,source="$(pwd)",target=/usr/share/nginx/html
$DOCKERID/linux tweet app:1.0
inknown flag: --publiah
See 'docker container run --help'.
[node1] (local) root@192.168.0.28 ~/linux tweet app
docker container run --detach --publish 80:80 --name linux tweet app --mount type=bind,source="$(pwd)",target=/usr/share/nginx/html
$DOCKERID/linux tweet app:1.0
.012e95ac2240af688f20ffb32a6ab6864cb6d7d80a80d41cf7e1382adfb1f68
[nodel] (local) root@192.168.0.28 ~/linux tweet app
cp index-new.html index.html
[node1] (local) root@192.168.0.28 ~/linux tweet app
docker rm --force linux tweet app
linux tweet app
[node1] (local) root@192.168.0.28 ~/linux tweet app
docker container run \
--deatch \
--publish 80:80 \
--name linux tweet app \
> $DOCKERID/linux tweet app:1.0
```

```
> $DOCKERID/linux tweet app:1.0
unknown flag: --deatch
See 'docker container run --help'.
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker container run --detach --publish 80:80 --name linux tweet app $DOCKERID/linux tweet app:1.0
375f3b9034cb2efbbe42eb6933add6029bc1fabd688575120ade198c7cc8806f
[nodel] (local) root@192.168.0.28 ~/linux tweet app
$ docker rm --force linux tweet app
linux tweet app
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image build --tag $DOCKERID/linux tweet app:2.0 .
[+] Building 0.6s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 186B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/nginx:latest
=> CACHED [1/3] FROM docker.io/library/nginx:latest@sha256:08bc36ad524 0.0s
=> [internal] load build context
=> => transferring context: 1.74kB
=> [2/3] COPY index.html /usr/share/nginx/html
=> [3/3] COPY linux.png /usr/share/nginx/html
```

```
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image 1s
REPOSITORY
                            TAG
                                      IMAGE ID
                                                     CREATED
                                                                      SIZE
gopal7361/linux tweet app
                            2.0
                                      a697379ad5bb
                                                     7 seconds ago
                                                                      187MB
gopal7361/linux tweet app
                            1.0
                                      17d9dde439a4
                                                     8 minutes ago
                                                                      187MB
                            latest
                                      041315a16183
                                                     12 days ago
                                                                      565MB
mysql
                                      5a81c4b8502e
ubuntu
                            latest
                                                     2 weeks ago
                                                                      77.8MB
alpine
                            latest
                                      c1aabb73d233
                                                     4 weeks ago
                                                                      7.33MB
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker container run \
> --deatch \
> --publish 80:80 \
> --name linux tweet app \
> $DOCKERID/linux tweet app:2.0
unknown flag: --deatch
See 'docker container run --help'.
[nodel] (local) root@192.168.0.28 ~/linux tweet app
```

```
See 'docker container run --help'.
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker container run --detach --publish 80:80 --name linux tweet app $DOCKERID/linux tweet app:2.0
0da95d4ca345d0b8c1e4a5c16b923636b86f0182513fb53048b53a7ef6573996
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker container run \
> detach \
> publish 8080:80 \
> --name old linux tweet app \
> 10
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker container run \
> --detach \
> --publish 8080:80 \
> --name old linux tweet app \
> $DOCKERID/linux tweet app:1.0
cb8e0ffa1da15991b44c098fcc8021e18720f131c0c97467c827cbb1bbc7aeae
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image ls -f refrence="$DOCKERID/*"
Error response from daemon: invalid filter 'refrence'
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image ls -f reference="$DOCKERID/*"
```

```
$ docker image ls -f reference="$DOCKERID/*"
REPOSITORY
                            TAG
                                      IMAGE ID
                                                                      SIZE
                                                     CREATED
gopal7361/linux tweet app 2.0
                                     a697379ad5bb
                                                    4 minutes ago
                                                                      187MB
gopal7361/linux tweet app 1.0
                                     17d9dde439a4
                                                     12 minutes ago
                                                                      187MB
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ 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: gopal7361
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
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image push $DOCKERID/linux tweet app:1.0
The push refers to repository [docker.io/gopal7361/linux tweet app]
7bfd8d2e43a6: Pushed
cccd4c7623d9: Pushed
3c9d04c9ebd5: Mounted from library/nginx
434c6a715c30: Mounted from library/nginx
```

```
434c6a715c30: Mounted from library/nginx
9fdfd12bc85b: Mounted from library/nginx
f36897eea34d: Mounted from library/nginx
1998c5cd2230: Mounted from library/nginx
b821d93f6666: Mounted from library/nginx
24839d45ca45: Mounted from library/nginx
1.0: digest: sha256:e5334068b6dd6b012bff63b59730197ed4c23796d6ef81400526418c4e6dde50 size: 2193
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ docker image push $DOCKERID/linux tweet app:2.0
The push refers to repository [docker.io/qopal7361/linux tweet app]
639205a538dc: Pushed
85f36ea821f1: Pushed
3c9d04c9ebd5: Layer already exists
434c6a715c30: Layer already exists
9fdfd12bc85b: Layer already exists
f36897eea34d: Layer already exists
1998c5cd2230: Layer already exists
b821d93f6666: Layer already exists
24839d45ca45: Laver already exists
write /var/lib/docker/image/overlay2/distribution/diffid-by-digest/sha256/.tmp-751803423ef56544c47816a472a5bfd7b1ed6453635afb8d352a327
3dc608d601195830940: no space left on device
[nodel] (local) root@192.168.0.28 ~/linux tweet app
```

```
1998c5cd2230: Mounted from library/nginx
b821d93f6666: Mounted from library/nginx
24839d45ca45: Mounted from library/nginx
1.0: digest: sha256:e5334068b6dd6b012bff63b59730197ed4c23796d6ef81400526418c4e6dde50 size: 2193
[nodel] (local) root@192.168.0.28 ~/linux tweet app
$ docker image push $DOCKERID/linux tweet app:2.0
The push refers to repository [docker.io/gopal7361/linux tweet app]
639205a538dc: Pushed
85f36ea821f1: Pushed
3c9d04c9ebd5: Layer already exists
434c6a715c30: Layer already exists
9fdfd12bc85b: Layer already exists
f36897eea34d: Layer already exists
1998c5cd2230: Layer already exists
b821d93f6666: Layer already exists
24839d45ca45: Laver already exists
write /var/lib/docker/image/overlay2/distribution/diffid-by-digest/sha256/.tmp-751803423ef56544c47816a472a5bfd7b1ed6453635afb8d352a327
3dc608d601195830940: no space left on device
[node1] (local) root@192.168.0.28 ~/linux tweet app
$ Gopal Kumar ^C
[node1] (local) root@192.168.0.28 ~/linux tweet app
```