

Docker Commands

- Docker Version
- Docker Run

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.17% (246.8MiB / 3.906GiB)

CPU

0.03%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
#####
#                               #
#   WARNING!!!!                 #
# This is a sandbox environment. Using personal credentials   #
# is HIGHLY! discouraged. Any consequences of doing so are   #
# completely the user's responsibilities.                     #
#                                                             #
# The PWD team.                                               #
#####
(node1) (local) root@192.168.0.28 ~
$ docker -v
Docker version 20.10.17, build 100c701
(node1) (local) root@192.168.0.28 ~
$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:4e83453afed1b4fala3500525091dbfca6ce1e66903fd4c01ff015dbcb1ba33e
Status: Downloaded newer image for hello-world:latest

Digest: sha256:4e83453afed1b4fala3500525091dbfca6ce1e66903fd4c01ff015dbcb1ba33e
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
```

- Docker images

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.17% (246.9MiB / 3.906GiB)

CPU

0.17%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
(node1) (local) root@192.168.0.28 ~
$ docker run python
Unable to find image 'python:latest' locally
latest: Pulling from library/python
b0248cf3e63c: Pull complete
127e97b4daf7: Pull complete
0336c50c9f69: Pull complete
1b89f3c7f7da: Pull complete
2d6277217976: Pull complete
273fcda609d8: Pull complete
58568d3a3a00: Pull complete
56fc9fb54f6e: Pull complete
8a22f29afe36: Pull complete
Digest: sha256:f7382f4f9dbc51183c72d621b9c196c1565f713a1fe40c119d215c961fa22815
Status: Downloaded newer image for python:latest
(node1) (local) root@192.168.0.28 ~
$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
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- Docker ps
- Docker ps -a
- Docker stats

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.17% (246.9MiB / 3.906GiB)

CPU

0.48%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
[node1] (local) root@192.168.0.28 ~
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
python        latest    4665a951a37e   13 days ago    921MB
hello-world    latest    feb5d9fea6a5   19 months ago  13.3kB
[node1] (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[node1] (local) root@192.168.0.28 ~
$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
a5272b39f90e   python    "python3"   3 minutes ago   Exited (0) 3 minutes ago   gallant_matsumoto
1160f038d395   hello-world  "/hello"    9 minutes ago   Exited (0) 9 minutes ago   clever_hypatia
[node1] (local) root@192.168.0.28 ~
CONTAINER ID   NAME      CPU %     MEM USAGE / LIMIT   MEM %     NET I/O   BLOCK I/O   PIDS
^Z
[1]+  Stopped                  docker stats
[node1] (local) root@192.168.0.28 ~
```

- Docker pull
- Docker run -it -d <imagename>

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.17% (247MiB / 3.906GiB)

CPU

1.06%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
[node1] (local) root@192.168.0.28 ~
$ docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
2ab09b027e7f: Pull complete
Digest: sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
[node1] (local) root@192.168.0.28 ~
$ docker run -it -d ubuntu
72dac711a2a533ea22646f10da132d72480afd996b4ca306bb4f1267daad0a1e
[node1] (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
72dac711a2a5   ubuntu    "/bin/bash"   8 seconds ago   Up 6 seconds   sleepy_jemison
[node1] (local) root@192.168.0.28 ~
$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
```

- **Docker exec -it <container id> bash**
- **Linux: ls, ls -l, exit**

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.2MiB / 3.906GiB)

CPU

0.01%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
72dac711a2a5   ubuntu        "/bin/bash"            28 seconds ago Up 26 seconds             sleepy_jemison
4f0c5699b5b0   4665a951a37e  "python3"              6 minutes ago  Exited (0) 6 minutes pythonContainer
a5272b39f90e   python       "python3"              11 minutes ago Exited (0) 11 minutes ago gallant_matsumoto
1160f038d395   hello-world   "/hello"               18 minutes ago Exited (0) 17 minutes ago clever_hypatia
(node1) (local) root@192.168.0.28 ~
$ docker exec -it 72dac711a2a5 bash
root@72dac711a2a5:/#
root@72dac711a2a5:/#
root@72dac711a2a5:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sbin  srv  sys  usr  var
root@72dac711a2a5:/# ls -l
total 0
lrwxrwxrwx 1 root root 7 Mar 8 02:05 bin -> usr/bin
drwxr-xr-x 2 root root 6 Apr 18 2022 boot
drwxr-xr-x 5 root root 360 Apr 25 08:16 dev
drwxr-xr-x 1 root root 66 Apr 25 08:16 etc
```

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.2MiB / 3.906GiB)

CPU

0.17%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
drwxr-xr-x 2 root root 6 Apr 18 2022 boot
drwxr-xr-x 5 root root 360 Apr 25 08:16 dev
drwxr-xr-x 1 root root 66 Apr 25 08:16 etc
drwxr-xr-x 2 root root 6 Apr 18 2022 home
lrwxrwxrwx 1 root root 7 Mar 8 02:05 lib -> usr/lib
lrwxrwxrwx 1 root root 9 Mar 8 02:05 lib32 -> usr/lib32
lrwxrwxrwx 1 root root 9 Mar 8 02:05 lib64 -> usr/lib64
lrwxrwxrwx 1 root root 10 Mar 8 02:05 libx32 -> usr/libx32
drwxr-xr-x 2 root root 6 Mar 8 02:05 media
drwxr-xr-x 2 root root 6 Mar 8 02:05 mnt
drwxr-xr-x 2 root root 6 Mar 8 02:05 opt
dr-xr-xr-x 1519 root root 0 Apr 25 08:16 proc
drwx----- 2 root root 37 Mar 8 02:08 root
drwxr-xr-x 5 root root 46 Mar 8 02:08 run
lrwxrwxrwx 1 root root 8 Mar 8 02:05 sbin -> usr/sbin
drwxr-xr-x 2 root root 6 Mar 8 02:05 srv
dr-xr-xr-x 13 root root 0 Mar 27 06:27 sys
drwxrwxrwt 2 root root 6 Mar 8 02:08 tmp
```

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.2MiB / 3.906GiB)

CPU

0.04%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
drwxrwxrwt 2 root root 6 Mar 8 02:08 [var]
drwxr-xr-x 14 root root 160 Mar 8 02:05 usr
drwxr-xr-x 11 root root 139 Mar 8 02:08 var
root@72dac711a2a5:/# cd ..
root@72dac711a2a5:/# docker stop 72dac711a2a5
bash: docker: command not found
root@72dac711a2a5:/# exit
exit
[node1] (local) root@192.168.0.28 ~
$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
72dac711a2a5   ubuntu        "/bin/bash"             3 minutes ago  Up 3 minutes              sleepy_jemison
4f0c5699b5b0   4665a951a37e  "python3"                10 minutes ago Exited (0) 10 minutes ago pythonContainer
a5272b39f90e   python        "python3"                15 minutes ago Exited (0) 15 minutes ago gallant_matsumoto
1160f038d395   hello-world   "/hello"                 21 minutes ago Exited (0) 21 minutes ago clever_hypatia
```

- Docker search

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.2MiB / 3.906GiB)

CPU

0.01%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
[node1] (local) root@192.168.0.28 ~
$ docker search MySQL
NAME                DESCRIPTION                                     STARS     OFFICIAL   AUTOMATED
mysql                MySQL is a widely used, open-source relation... 14069     [OK]
mariadb             MariaDB Server is a high performing open sou... 5369     [OK]
phpmyadmin          phpMyAdmin - A web interface for MySQL and M... 785      [OK]
percona             Percona Server is a fork of the MySQL relati... 606      [OK]
bitnami/mysql       Bitnami MySQL Docker Image                    86              [OK]
databack/mysql-backup Back up mysql databases to... anywhere!      82
linuxserver/mysql-workbench linuxserver/mysql-workbench                    49
ubuntu/mysql        MySQL open source fast, stable, multi-thread... 46
linuxserver/mysql   A Mysql container, brought to you by LinuxSe... 38
circleci/mysql      MySQL is a widely used, open-source relation... 29
google/mysql        MySQL server for Google Compute Engine        23              [OK]
rapidfort/mysql     RapidFort optimized, hardened image for MySQL 14
bitnami/mysqld-exporter bitnami/mysqld-exporter                        5
vitess/mysqlctld    vitess/mysqlctld                              1              [OK]
newrelic/mysql-plugin New Relic Plugin for monitoring MySQL databa... 1              [OK]
```

- Docker pull

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.3MiB / 3.906GiB)

CPU

0.05%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
newrelic/mysql-plugin      New Relic Plugin for monitoring MySQL databa... 1 [OK]
ilios/mysql                Mysql configured for running Ilios           1 [OK]
rapidfort/mysql-official   RapidFort optimized, hardened image for MySQ... 0
bitnamicharts/mysql        0
mirantis/mysql             0
docksal/mysql             MySQL service images for Docksal - https://d... 0
rapidfort/mysql8-ib        RapidFort optimized, hardened image for MySQ... 0
cing/mysql                 0
eclipse/mysql             Mysql 5.7, curl, rsync                       0 [OK]
drud/mysql                 0
hashicorp/mysql-portworx-demo 0
(node1) (local) root@192.168.0.28 ~
$ docker pull --platform linux/x86_64 mysql
Using default tag: latest
latest: Pulling from library/mysql
328ba678bf27: Pull complete
f3f5ff008d73: Pull complete
dd7054d6d0c7: Pull complete
```

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.3MiB / 3.906GiB)

CPU

0.09%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play

DELETE

EDITOR

```
f3f5ff008d73: Pull complete
dd7054d6d0c7: Pull complete
70b5d4e8750e: Pull complete
cdc4a7b43bdd: Pull complete
a0608f8959e0: Pull complete
5823e721608f: Pull complete
a564ada930a9: Pull complete
539565d00e89: Pull complete
a11a06843fd5: Pull complete
92f6d4aa041d: Pull complete
Digest: sha256:a43f6e7e7f3a5e5b90f857fbed4e3103ece771b19f0f75880f767cf66bbb6577
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
(node1) (local) root@192.168.0.28 ~
$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 8109e588b0e8 7 days ago 564MB
python latest 4665a951a37e 13 days ago 921MB
```

- Docker stop
- Docker restart
- Docker rename
-

ch3ofp2e_ch3og781k7jg00eijkug

IP

192.168.0.28

OPEN PORT

Memory

6.16% (246.3MiB / 3.906GiB)

CPU

0.02%

SSH

ssh ip172-18-0-26-ch3ofp2e69v0008i29ug@direct.labs.play 

DELETE

EDITOR

```
python          latest      4665a951a37e   13 days ago    921MB
ubuntu          latest      08d22c0ceb15   6 weeks ago    77.8MB
hello-world     latest      feb5d9fea6a5   19 months ago  13.3kB
[node1] (local) root@192.168.0.28 ~
$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
72dac711a2a5   ubuntu        "/bin/bash"             7 minutes ago   Up 7 minutes              sleepy_jemison
4f0c5699b5b0   4665a951a37e   "python3"               14 minutes ago   Exited (0) 13 minutes ago   pythonContainer
a5272b39f90e   python       "python3"               19 minutes ago   Exited (0) 19 minutes ago   gallant_matsumoto
1160f038d395   hello-world   "/hello"                 25 minutes ago   Exited (0) 25 minutes ago   clever_hypatia
[node1] (local) root@192.168.0.28 ~
$ docker stop 1160f038d395
1160f038d395
[node1] (local) root@192.168.0.28 ~
$ docker restart 1160f038d395
1160f038d395
[node1] (local) root@192.168.0.28 ~
$ docker rename hello-world hey
```