

Top 15 Docker Commands – Docker Commands Tutorial

e! edureka.co/blog/docker-commands

November 14, 2017

In my previous blogs, I have covered **What is Docker**, and how you can use it. Today, in this blog, I will talk about the Top 15 Docker Commands that you will be using frequently while you are working with Docker. The trend of Docker container has been growing uncontainably with organizations actively looking for professionals possessing **Docker certification** and a sound knowledge of these Docker commands will give you the needed expertise.

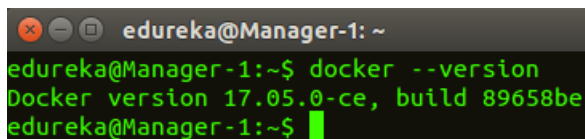
Following are the commands which are being covered:

So, let's get started:

Docker Commands

1. `docker --version`

This command is used to get the currently installed version of docker

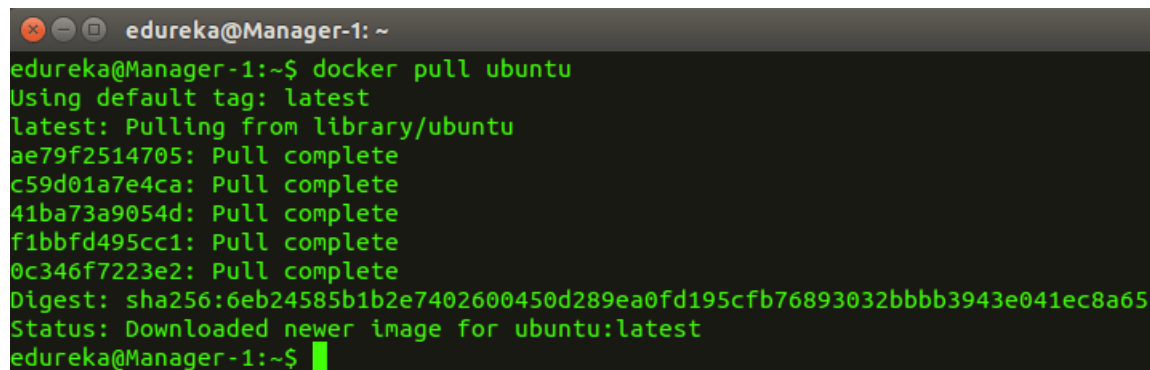


```
edureka@Manager-1: ~  
edureka@Manager-1:~$ docker --version  
Docker version 17.05.0-ce, build 89658be  
edureka@Manager-1:~$
```

2. `docker pull`

Usage: `docker pull <image name>`

This command is used to pull images from the **docker repository**(hub.docker.com)



```
edureka@Manager-1: ~  
edureka@Manager-1:~$ docker pull ubuntu  
Using default tag: latest  
latest: Pulling from library/ubuntu  
ae79f2514705: Pull complete  
c59d01a7e4ca: Pull complete  
41ba73a9054d: Pull complete  
f1bbfd495cc1: Pull complete  
0c346f7223e2: Pull complete  
Digest: sha256:6eb24585b1b2e7402600450d289ea0fd195cfb76893032bbbb3943e041ec8a65  
Status: Downloaded newer image for ubuntu:latest  
edureka@Manager-1:~$
```

3. `docker run`

Usage: `docker run -it -d <image name>`

This command is used to create a container from an image

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker run -it -d ubuntu
f49b58b66d1ebc7c2d9e42280c1e24019b3202fb3e69050c45e806e6f9b65f71
edureka@Manager-1:~$
```

4. docker ps

This command is used to list the running containers

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED         STATUS
f49b58b66d1e   ubuntu    "/bin/bash"             6 minutes ago   Up 6 minutes
angry_knuth
```

5. docker ps -a



Docker Certified Associate Training

Explore Curriculum

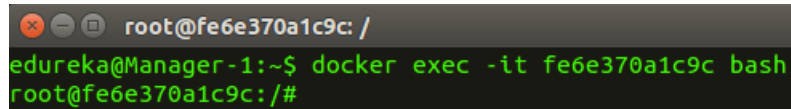
This command is used to show all the running and exited containers

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED         STATUS
fe6e370a1c9c   ubuntu    "/bin/bash"             12 seconds ago   Up 11 seconds
2b86a0703d4f   ubuntu    "/bin/bash"             About a minute ago   Exited
(0) 21 seconds ago   infallible_galileo
```

6. docker exec

Usage: `docker exec -it <container id> bash`

This command is used to access the running container

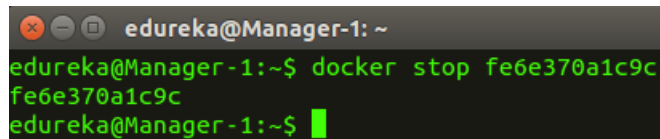
A terminal window with a dark background. The title bar shows a window icon, a close button, and the text 'root@fe6e370a1c9c: /'. The terminal content shows a user 'edureka@Manager-1' at the prompt '~\$' typing 'docker exec -it fe6e370a1c9c bash'. The output shows the user is now 'root@fe6e370a1c9c' at the prompt '#'.

```
root@fe6e370a1c9c: /
edureka@Manager-1:~$ docker exec -it fe6e370a1c9c bash
root@fe6e370a1c9c:/#
```

7. docker stop

Usage: `docker stop <container id>`

This command stops a running container

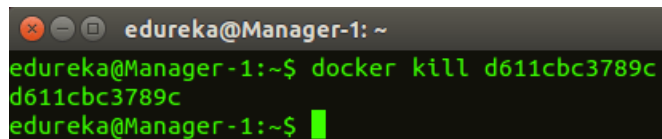
A terminal window with a dark background. The title bar shows a window icon, a close button, and the text 'edureka@Manager-1: ~'. The terminal content shows a user 'edureka@Manager-1' at the prompt '~\$' typing 'docker stop fe6e370a1c9c'. The output shows the container ID 'fe6e370a1c9c' and then the prompt returns to '~\$'.

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker stop fe6e370a1c9c
fe6e370a1c9c
edureka@Manager-1:~$ █
```

8. docker kill

Usage: `docker kill <container id>`

This command kills the container by stopping its execution immediately. The difference between 'docker kill' and 'docker stop' is that 'docker stop' gives the container time to shutdown gracefully, in situations when it is taking too much time for getting the container to stop, one can opt to kill it

A terminal window with a dark background. The title bar shows a window icon, a close button, and the text 'edureka@Manager-1: ~'. The terminal content shows a user 'edureka@Manager-1' at the prompt '~\$' typing 'docker kill d611cbc3789c'. The output shows the container ID 'd611cbc3789c' and then the prompt returns to '~\$'.

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker kill d611cbc3789c
d611cbc3789c
edureka@Manager-1:~$ █
```

9. docker commit

Usage: `docker commit <container id> <username/imagename>`

This command creates a new image of an edited container on the local system

```
edureka@Manager-1: ~  
edureka@Manager-1:~$ docker commit fe6e370a1c9c hshar/ubuntu  
sha256:0678ee2e6b1e6a66ae7179c3be31610e5338d3004c52d25fc9f65fd2a63dc164  
edureka@Manager-1:~$
```

10. docker login

This command is used to login to the docker hub repository

DevOps Training

Next

```
edureka@Manager-1: ~  
edureka@Manager-1:~$ 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 (hshar): hshar  
Password:  
Login Succeeded  
edureka@Manager-1:~$
```

11. docker push

Usage: docker push <username/image name>

This command is used to push an image to the docker hub repository

```
edureka@Manager-1: ~  
edureka@Manager-1:~$ docker push hshar/ubuntu  
The push refers to a repository [docker.io/hshar/ubuntu]  
3e69d0f539f1: Pushed  
174a611570d4: Mounted from library/ubuntu  
f51f76255b02: Mounted from library/ubuntu  
51db18d04d72: Mounted from library/ubuntu  
f1c896f31e49: Mounted from library/ubuntu  
0f5ff0cf6a1c: Mounted from library/ubuntu  
latest: digest: sha256:fdecdf8f2195a17e35b41e87fdd96293baf85ec102d045a9deb80d714a1d6950  
size: 1564  
edureka@Manager-1:~$
```

12. docker images

This command lists all the locally stored docker images

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
hshar/ubuntunew      latest             0678ee2e6b1e       6 minutes ago      122MB
ubuntu               latest             dd6f76d9cc90       9 days ago         122MB
edureka@Manager-1:~$
```

13. docker rm

Usage: **docker rm** <container id>

This command is used to delete a stopped container

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker rm 2b86a0703d4f
2b86a0703d4f
edureka@Manager-1:~$
```

14. docker rmi

Usage: **docker rmi** <image-id>

This command is used to delete an image from local storage

```
edureka@Manager-1: ~
edureka@Manager-1:~$ docker rmi 0678ee2e6b1e
Untagged: hshar/ubuntunew:latest
Untagged: hshar/ubuntunew@sha256:fdecdf8f2195a17e35b41e87fdd96293baf85ec102d045a9deb80d714a1d6950
Deleted: sha256:0678ee2e6b1e6a66ae7179c3be31610e5338d3004c52d25fc9f65fd2a63dc164
Deleted: sha256:f3aea8a0f4950bab665799e13f12d394e06c766df8f2465c7583db95397a5c24
edureka@Manager-1:~$
```

15. docker build

Usage: **docker build** <path to docker file>

This command is used to build an image from a specified docker file

```
edureka@Manager-1: ~/hello
edureka@Manager-1:~/hello$ docker build .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM ubuntu
--> dd6f76d9cc90
Step 2/2 : RUN echo successfully ran the dockerfile
--> Running in 835217ac24f5
successfully ran the dockerfile
--> bf3de26a35f0
Removing intermediate container 835217ac24f5
Successfully built bf3de26a35f0
edureka@Manager-1:~/hello$
```



Docker Certified Associate Training

Weekday / Weekend Batches [See Batch Details](#)

Now that you have understood what is DevOps, check out our **DevOps Certification Training** by Edureka, a trusted online learning company with a network of more than 250,000 satisfied learners spread across the globe. The Edureka DevOps Certification Training course helps learners gain expertise in various DevOps processes and tools such as Puppet, Jenkins, Nagios, Ansible, Chef, Saltstack and GIT for automating multiple steps in SDLC.

Got a question for us? Please mention it in the comments section and we will get back to you.

Topics Covered

- DevOps (74 Blogs)
- Mastering Git and GitHub (9 Blogs)
- Docker (8 Blogs)
- DevOps Engineer Masters Program (4 Blogs)

SEE MORE

DevOps

Last updated on May 22,201964K Views

[Bookmark](#)



Hemant Sharma

DevOps Certification Training

- 81k Enrolled Learners
- Weekend/Weekday
- Live Class

Reviews

5 (32100)

AWS Certified DevOps Engineer Training

- 4k Enrolled Learners
- Weekend
- Live Class

Reviews

5 (1300)

Certified Kubernetes Administrator Exam Train ...

- 6k Enrolled Learners
- Weekend
- Live Class

Reviews

5 (2300)

Git and GitHub

- 4k Enrolled Learners
- Weekend
- Self Paced

Reviews

5 (1350)

Continuous Integration with Jenkins Certifica ...

- 8k Enrolled Learners
- Weekend
- Self Paced

Reviews

5 (3100)

Docker Certified Associate Training

- 6k Enrolled Learners
- Weekend
- Live Class

Reviews

5 (2100)

"PMP®", "PMI®", "PMI-ACP®" and "PMBOK®" are registered marks of the Project Management Institute, Inc. MongoDB®, Mongo and the leaf logo are the registered trademarks of MongoDB, Inc.



DEVOPS

CERTIFICATION TRAINING



AWS CERTIFIED

DEVOPS ENGINEER



CKA

EXAM TRAINING



MASTERING

GIT AND GITHUB



CONTINUOUS INTEGRATION WITH **JENKINS**



DOCKER
CERTIFIED
ASSOCIATE TRAINING