



Language: EN ▾

Contents

Prerequisites

Step 1 – Installing Docker

Step 2 – Executing the Docker Command Without Sudo (Optional)

Step 3 – Using the Docker Command

Step 4 – Working with Docker Images

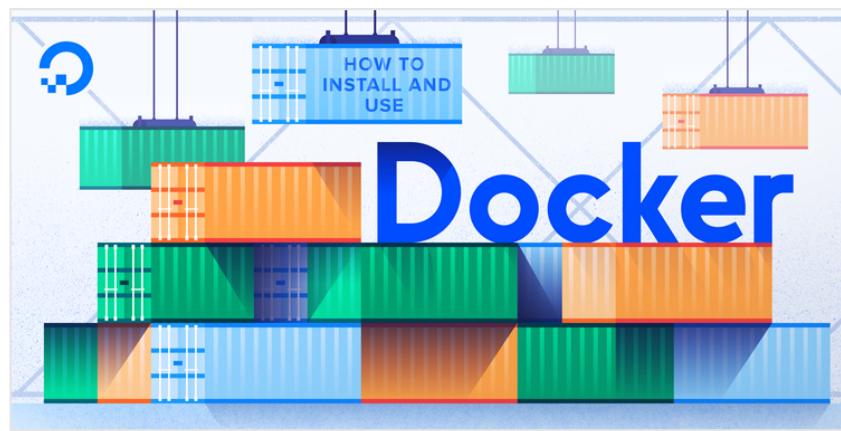
Step 5 – Running a Docker Container

Step 6 – Managing Docker Containers

Step 7 – Committing Changes in a Container to a Docker Image

Step 8 – Pushing Docker Images to a Docker Repository

Conclusion



How To Install and Use Docker on Ubuntu 18.04

Posted July 5, 2018 @12m DOCKER UBUNTU 18.04



By Brian Hogan

[Become an author](#)**Not using Ubuntu 18.04? Choose a different version:***A previous version of this tutorial was written by [finid](#).*

Introduction

Docker is an application that simplifies the process of managing application processes in *containers*. Containers let you run your applications in resource-isolated processes. They're similar to virtual machines, but containers are more portable, more resource-friendly, and more dependent on the host operating system.

For a detailed introduction to the different components of a Docker container, check out [The Docker Ecosystem: An Introduction to Common Components](#).

In this tutorial, you'll install and use Docker Community Edition (CE) on Ubuntu 18.04. You'll install Docker itself, work with containers and images, and push an image to a Docker Repository.

Prerequisites

To follow this tutorial, you will need the following:

- One Ubuntu 18.04 server set up by following [the Ubuntu 18.04 initial server setup guide](#), including a sudo non-root user and a firewall.
- An account on [Docker Hub](#) if you wish to create your own images and push them to Docker Hub, as shown in Steps 7 and 8.

Step 1 – Installing Docker

The Docker installation package available in the official Ubuntu repository may not be the latest version. To ensure we get the latest version, we'll install Docker from the official Docker repository. To do that, we'll add a new package source, add the GPG key from Docker to ensure the downloads are valid, and then install the package.

First, update your existing list of packages:

```
$ sudo apt update
```

Related

[How To Use the PDO PHP Extension to Perform MySQL Transactions in PHP on Ubuntu 18.04](#)

[Tutorial](#)

[How To Install MariaDB on Ubuntu 18.04](#)

[Tutorial](#)

Next, install a few prerequisite packages which let `apt` use packages over HTTPS:

```
$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
```

Then add the GPG key for the official Docker repository to your system:

```
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

Add the Docker repository to APT sources:

```
$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable"
```

Next, update the package database with the Docker packages from the newly added repo:

```
$ sudo apt update
```

Make sure you are about to install from the Docker repo instead of the default Ubuntu repo:

```
$ apt-cache policy docker-ce
```

You'll see output like this, although the version number for Docker may be different:

```
Output of apt-cache policy docker-ce

docker-ce:
  Installed: (none)
  Candidate: 18.03.1~ce~3-0~ubuntu
  Version table:
    18.03.1~ce~3-0~ubuntu 500
      500 https://download.docker.com/linux/ubuntu bionic/stable amd64 Packages
```

Notice that `docker-ce` is not installed, but the candidate for installation is from the Docker repository for Ubuntu 18.04 (`bionic`).

Finally, install Docker:

```
$ sudo apt install docker-ce
```

Docker should now be installed, the daemon started, and the process enabled to start on boot. Check that it's running:

```
$ sudo systemctl status docker
```

The output should be similar to the following, showing that the service is active and running:

```
Output
● docker.service - Docker Application Container Engine
  Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
  Active: active (running) since Thu 2018-07-05 15:08:39 UTC; 2min 55s ago
    Docs: https://docs.docker.com
  Main PID: 10096 (dockerd)
     Tasks: 16
    CGroup: /system.slice/docker.service
            └─10096 /usr/bin/dockerd -H fd://
                  ├─10113 docker-containerd --config /var/run/docker/containerd/containerd.toml
```

Installing Docker now gives you not just the Docker service (daemon) but also the `docker` command line utility, or the Docker client. We'll explore how to use the `docker` command later in this tutorial.

Step 2 – Executing the Docker Command Without Sudo (Optional)

By default, the `docker` command can only be run by the `root` user or by a user in the `docker` group, which is automatically created during Docker's installation process. If you attempt to run the

`docker` command without prefixing it with `sudo` or without being in the `docker` group, you'll get an output like this:

Output

```
docker: Cannot connect to the Docker daemon. Is the docker daemon running on this host?.
See 'docker run --help'.
```

If you want to avoid typing `sudo` whenever you run the `docker` command, add your username to the `docker` group:

```
$ sudo usermod -aG docker ${USER}
```

To apply the new group membership, log out of the server and back in, or type the following:

```
$ su - ${USER}
```

You will be prompted to enter your user's password to continue.

Confirm that your user is now added to the `docker` group by typing:

```
$ id -nG
```

Output

```
sammy  sudo docker
```

If you need to add a user to the `docker` group that you're not logged in as, declare that username explicitly using:

```
$ sudo usermod -aG docker username
```

The rest of this article assumes you are running the `docker` command as a user in the `docker` group. If you choose not to, please prepend the commands with `sudo`.

Let's explore the `docker` command next.

Step 3 – Using the Docker Command

Using `docker` consists of passing it a chain of options and commands followed by arguments. The syntax takes this form:

```
$ docker [option] [command] [arguments]
```

To view all available subcommands, type:

```
$ docker
```

As of Docker 18, the complete list of available subcommands includes:

Output

attach	Attach local standard input, output, and error streams to a running container
build	Build an image from a Dockerfile
commit	Create a new image from a container's changes
cp	Copy files/folders between a container and the local filesystem
create	Create a new container
diff	Inspect changes to files or directories on a container's filesystem
events	Get real time events from the server
exec	Run a command in a running container
export	Export a container's filesystem as a tar archive
history	Show the history of an image
images	List images
import	Import the contents from a tarball to create a filesystem image
info	Display system-wide information
inspect	Return low-level information on Docker objects
kill	Kill one or more running containers
load	Load an image from a tar archive or STDIN

login	Log in to a Docker registry
logout	Log out from a Docker registry
logs	Fetch the logs of a container
pause	Pause all processes within one or more containers
port	List port mappings or a specific mapping for the container
ps	List containers
pull	Pull an image or a repository from a registry
push	Push an image or a repository to a registry
rename	Rename a container
restart	Restart one or more containers
rm	Remove one or more containers
rmi	Remove one or more images
run	Run a command in a new container
save	Save one or more images to a tar archive (streamed to STDOUT by default)
search	Search the Docker Hub for images
start	Start one or more stopped containers
stats	Display a live stream of container(s) resource usage statistics
stop	Stop one or more running containers
tag	Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top	Display the running processes of a container
unpause	Unpause all processes within one or more containers
update	Update configuration of one or more containers
version	Show the Docker version information
wait	Block until one or more containers stop, then print their exit codes

To view the options available to a specific command, type:

```
$ docker docker-subcommand --help
```

To view system-wide information about Docker, use:

```
$ docker info
```

Let's explore some of these commands. We'll start by working with images.

Step 4 – Working with Docker Images

Docker containers are built from Docker images. By default, Docker pulls these images from [Docker Hub](#), a Docker registry managed by Docker, the company behind the Docker project. Anyone can host their Docker images on Docker Hub, so most applications and Linux distributions you'll need will have images hosted there.

To check whether you can access and download images from Docker Hub, type:

```
$ docker run hello-world
```

The output will indicate that Docker is working correctly:

```
Output
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
9bb5a5d4561a: Pull complete
Digest: sha256:3e1764d0f546ceac4565547df2ac4907fe46f007ea229fd7ef2718514bcec35d
Status: Downloaded newer image for hello-world:latest

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

Docker was initially unable to find the `hello-world` image locally, so it downloaded the image from Docker Hub, which is the default repository. Once the image downloaded, Docker created a container from the image and the application within the container executed, displaying the message.

You can search for images available on Docker Hub by using the `docker` command with the `search` subcommand. For example, to search for the Ubuntu image, type:

```
$ docker search ubuntu
```

The script will crawl Docker Hub and return a listing of all images whose name match the search string. In this case, the output will be similar to this:

Scanning in the background, the output will be similar to this:

Output		DESCRIPTION
NAME		Ubuntu is a Debian-based Linux operat
ubuntu		Ubuntu with openssh-server and NoVNC
dorowu/ubuntu-desktop-lxde-vnc		Dockerized SSH service, built on top
rastasheep/ubuntu-ssh		Ubuntu 14.04 LTS with ansible
ansible/ubuntu14.04-ansible		Upstart is an event-based replacement
ubuntu-upstart		NeuroDebian provides neuroscience res
neurodebian		debootstrap --variant=minbase --compr
ubuntu-debootstrap		ubuntu-16-nginx-php-phpmyadmin-mysql-
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mysql-5		Simple always updated Ubuntu docker i
nuagebec/ubuntu		Simple Ubuntu docker images with SSH
tutum/ubuntu		Ubuntu is a Debian-based Linux operat
i386/ubuntu		Ubuntu is a Debian-based Linux operat
ppc64le/ubuntu		ubuntu-16-apache-php-7.0
1and1internet/ubuntu-16-apache-php-7.0		ubuntu-16-nginx-php-phpmyadmin-mariadb-10
eclipse/ubuntu_jdk8		Ubuntu, JDK8, Maven 3, git, curl, nma
codenvy/ubuntu_jdk8		Ubuntu, JDK8, Maven 3, git, curl, nma
darksheer/ubuntu		Base Ubuntu Image -- Updated hourly
1and1internet/ubuntu-16-apache		ubuntu-16-apache
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4		ubuntu-16-nginx-php-5.6-wordpress-4
1and1internet/ubuntu-16-sshd		ubuntu-16-sshd
pivotaldata/ubuntu		A quick freshening-up of the base Ubu
1and1internet/ubuntu-16-healthcheck		ubuntu-16-healthcheck
pivotaldata/ubuntu-gpdb-dev		Ubuntu images for GPDB development
smartentry/ubuntu		ubuntu with smartentry
osobv/ubuntu		
...		

In the **OFFICIAL** column, **OK** indicates an image built and supported by the company behind the project. Once you've identified the image that you would like to use, you can download it to your computer using the `pull` subcommand.

Execute the following command to download the official `ubuntu` image to your computer:

```
$ docker pull ubuntu
```

You'll see the following output:

```
Output
Using default tag: latest
latest: Pulling from library/ubuntu
6b98dfc16071: Pull complete
4001a1209541: Pull complete
6319fc68c576: Pull complete
b24603670dc3: Pull complete
97f170c87c6f: Pull complete
Digest: sha256:5f4bdc3467537cbbe563e80db2c3ec95d548a9145d64453b06939c4592d67b6d
Status: Downloaded newer image for ubuntu:latest
```

After an image has been downloaded, you can then run a container using the downloaded image with the `run` subcommand. As you saw with the `hello-world` example, if an image has not been downloaded when `docker` is executed with the `run` subcommand, the Docker client will first download the image, then run a container using it.

To see the images that have been downloaded to your computer, type:

```
$ docker images
```

The output should look similar to the following:

Output				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	113a43faa138	4 weeks ago	81.2MB
hello-world	latest	e38bc07ac18e	2 months ago	1.85kB

As you'll see later in this tutorial, images that you use to run containers can be modified and used to generate new images, which may then be uploaded (*pushed* is the technical term) to Docker Hub or other Docker registries.

Let's look at how to run containers in more detail.

Step 5 – Running a Docker Container

The `hello-world` container you ran in the previous step is an example of a container that runs and exits after emitting a test message. Containers can be much more useful than that, and they can be interactive. After all, they are similar to virtual machines, only more resource-friendly.

As an example, let's run a container using the latest image of Ubuntu. The combination of the `-i` and `-t` switches gives you interactive shell access into the container:

```
$ docker run -it ubuntu
```

Your command prompt should change to reflect the fact that you're now working inside the container and should take this form:

```
Output  
root@d9b100f2f636:/#
```

Note the container id in the command prompt. In this example, it is `d9b100f2f636`. You'll need that container ID later to identify the container when you want to remove it.

Now you can run any command inside the container. For example, let's update the package database inside the container. You don't need to prefix any command with `sudo`, because you're operating inside the container as the `root` user:

```
root@d9b100f2f636:/# apt update
```

Then install any application in it. Let's install Node.js:

```
root@d9b100f2f636:/# apt install nodejs
```

This installs Node.js in the container from the official Ubuntu repository. When the installation finishes, verify that Node.js is installed:

```
root@d9b100f2f636:/# node -v
```

You'll see the version number displayed in your terminal:

```
Output  
v8.10.0
```

Any changes you make inside the container only apply to that container.

To exit the container, type `exit` at the prompt.

Let's look at managing the containers on our system next.

Step 6 – Managing Docker Containers

After using Docker for a while, you'll have many active (running) and inactive containers on your computer. To view the **active ones**, use:

```
$ docker ps
```

You will see output similar to the following:

CONTAINER ID	IMAGE	COMMAND	CREATED
--------------	-------	---------	---------

In this tutorial, you started two containers; one from the `hello-world` image and another from the `ubuntu` image. Both containers are no longer running, but they still exist on your system.

To view all containers – active and inactive, run `docker ps` with the `-a` switch:

```
$ docker ps -a
```

You'll see output similar to this:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
d9b100f2f636	ubuntu	"/bin/bash"	About an hour ago	Exited (0) 8 mi
01c950718166	hello-world	"/hello"	About an hour ago	Exited (0) Abou

To view the latest container you created, pass it the `-l` switch:

```
$ docker ps -l
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
d9b100f2f636	ubuntu	"/bin/bash"	About an hour ago	Exited (0) 16

To start a stopped container, use `docker start`, followed by the container ID or the container's name. Let's start the Ubuntu-based container with the ID of `d9b100f2f636`:

```
$ docker start d9b100f2f636
```

The container will start, and you can use `docker ps` to see its status:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
d9b100f2f636	ubuntu	"/bin/bash"	About an hour ago	Up 8 seconds

To stop a running container, use `docker stop`, followed by the container ID or name. This time, we'll use the name that Docker assigned the container, which is `sharp_volhard`:

```
$ docker stop sharp_volhard
```

Once you've decided you no longer need a container anymore, remove it with the `docker rm` command, again using either the container ID or the name. Use the `docker ps -a` command to find the container ID or name for the container associated with the `hello-world` image and remove it.

```
$ docker rm festive_williams
```

You can start a new container and give it a name using the `--name` switch. You can also use the `--rm` switch to create a container that removes itself when it's stopped. See the `docker run help` command for more information on these options and others.

Containers can be turned into images which you can use to build new containers. Let's look at how that works.

Step 7 – Committing Changes in a Container to a Docker Image

When you start up a Docker image, you can create, modify, and delete files just like you can with a virtual machine. The changes that you make will only apply to that container. You can start and stop it, but once you destroy it with the `docker rm` command, the changes will be lost for good.

This section shows you how to save the state of a container as a new Docker image.

After installing Node.js inside the Ubuntu container, you now have a container running off an image, but the container is different from the image you used to create it. But you might want to reuse this Node.js container as the basis for new images later.

Then commit the changes to a new Docker image instance using the following command.

```
$ docker commit -m "What you did to the image" -a "Author Name" container_id repository/new_i
```

The `-m` switch is for the commit message that helps you and others know what changes you made, while `-a` is used to specify the author. The `container_id` is the one you noted earlier in the tutorial when you started the interactive Docker session. Unless you created additional repositories on Docker Hub, the `repository` is usually your Docker Hub username.

For example, for the user `sammy`, with the container ID of `d9b100f2f636`, the command would be:

```
$ docker commit -m "added Node.js" -a "sammy" d9b100f2f636 sammy/ubuntu-nodejs
```

When you *commit* an image, the new image is saved locally on your computer. Later in this tutorial, you'll learn how to push an image to a Docker registry like Docker Hub so others can access it.

Listing the Docker images again will show the new image, as well as the old one that it was derived from:

```
$ docker images
```

You'll see output like this:

Output				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
sammy/ubuntu-nodejs	latest	7c1f35226ca6	7 seconds ago	179MB
ubuntu	latest	113a43faa138	4 weeks ago	81.2MB
hello-world	latest	e38bc07ac18e	2 months ago	1.85kB

In this example, `ubuntu-nodejs` is the new image, which was derived from the existing `ubuntu` image from Docker Hub. The size difference reflects the changes that were made. And in this example, the change was that NodeJS was installed. So next time you need to run a container using Ubuntu with NodeJS pre-installed, you can just use the new image.

You can also build Images from a `Dockerfile`, which lets you automate the installation of software in a new image. However, that's outside the scope of this tutorial.

Now let's share the new image with others so they can create containers from it.

Step 8 – Pushing Docker Images to a Docker Registry

The next logical step after creating a new image from an existing image is to share it with a select few of your friends, the whole world on Docker Hub, or other Docker registry that you have access to. To push an image to Docker Hub or any other Docker registry, you must have an account there.

This section shows you how to push a Docker image to Docker Hub. To learn how to create your own private Docker registry, check out [How To Set Up a Private Docker Registry on Ubuntu 14.04](#).

To push your image, first log into Docker Hub.

```
$ docker login -u docker-registry-username
```

You'll be prompted to authenticate using your Docker Hub password. If you specified the correct password, authentication should succeed.

Note: If your Docker registry username is different from the local username you used to create the image, you will have to tag your image with your registry username. For the example given in the last step, you would type:

```
$ docker tag sammy/ubuntu-nodejs docker-registry-username/ubuntu-nodejs
```

Then you may push your own image using:

```
$ docker push docker-registry-username/docker-image-name
```

To push the `ubuntu-nodejs` image to the `sammy` repository, the command would be:

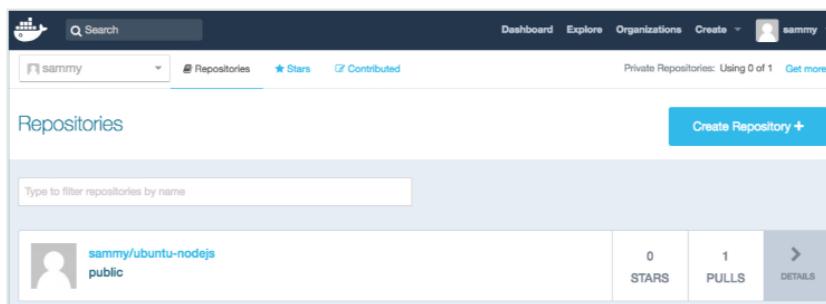
```
$ docker push sammy/ubuntu-nodejs
```

The process may take some time to complete as it uploads the images, but when completed, the output will look like this:

```
Output
The push refers to a repository [docker.io/sammy/ubuntu-nodejs]
e3fbfb44187: Pushed
5f70bf18a086: Pushed
a3b5c80a4eba: Pushed
7f18b442972b: Pushed
3ce512daaf78: Pushed
7aae4540b42d: Pushed
```

...

After pushing an image to a registry, it should be listed on your account's dashboard, like that shown in the image below.



If a push attempt results in an error of this sort, then you likely did not log in:

```
Output
The push refers to a repository [docker.io/sammy/ubuntu-nodejs]
e3fbfb44187: Preparing
5f70bf18a086: Preparing
a3b5c80a4eba: Preparing
7f18b442972b: Preparing
3ce512daaf78: Preparing
7aae4540b42d: Waiting
unauthorized: authentication required
```

Log in with `docker login` and repeat the push attempt. Then verify that it exists on your Docker Hub repository page.

You can now use `docker pull sammy/ubuntu-nodejs` to pull the image to a new machine and use it to run a new container.

Conclusion

In this tutorial you installed Docker, worked with images and containers, and pushed a modified image to Docker Hub. Now that you know the basics, explore the [other Docker tutorials](#) in the DigitalOcean Community.

Docker Container

Step 6 – Managing Docker Containers

Step 7 – Committing Changes in a Container to a Docker Image

Step 8 – Pushing Docker Images to a Registry



By [Brian Hogan](#)



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1 Nice Docker tutorials

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6 As ever... you guys do the best guides in internet land. Seriously, people should use DO guides as a benchmark on how to write guides. I have no idea how you manage to get them so simple, clean and informative time and time again. For this reason alone, I am committed to using your servers. Great work guys.... again!

[Reply](#) [Report](#) [spike002uk](#) September 8, 2018

0 Registered just to say this is a superb article. Newbie to Docker and followed it to sucess.

[Reply](#) [Report](#) [spike002uk](#) September 8, 2018

0 Managing Docker Containers - Adding comment here in case anyone like me needs it. Once you restart the docker image and you need to connect to it you use the following:

`docker exec -t -i container-name /bin/bash`

There is also an attach option but seems to be the above is favoured. Will let others more qualified to comment on this

[Reply](#) [Report](#)

cbodasing September 17, 2018
Hi,

I'm stuck at add the GPG key for the official Docker repository to your system:. I get the error:

```
option -: is unknown
```

Please can you assist?

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nrigeriu October 9, 2018
Thank you for the tutorial. I have a question though:
Is it possible to install Docker on another partition on my system? I noticed it installs itself on File system on Ubuntu, where I don't have a lot of space and Docker with its files takes more than 6GB so it's really a problem

[Reply](#) [Report](#)

solusiinformasidigital October 10, 2018
Great tutorial. Thanks a lot.

[Reply](#) [Report](#)

sergiyilchuk November 1, 2018
I'm on 18.04 Bionic and looks like I'm still getting this error:

```
Ign:10 https://download.docker.com/linux/ubuntu (lsb_release InRelease  
Err:11 https://download.docker.com/linux/ubuntu (lsb_release Release  
        404 Not Found [IP: 54.192.230.81 443]  
Reading package lists... Done  
E: The repository 'https://download.docker.com/linux/ubuntu (lsb_release Release' does not  
N: Updating from such a repository can't be done securely, and is therefore disabled by def  
N: See apt-secure(8) manpage for repository creation and user configuration details.
```

[Reply](#) [Report](#)

jerryperes11 December 13, 2018
Hello Brain! I have no idea how to install and use docker on ubuntu. But after reading this blog I will definitely complete this task. Thanks for sharing.

[Reply](#) [Report](#)

rimsovankiry December 21, 2018
Thank you for your tutorial. it is helpful to installation Docker.

[Reply](#) [Report](#)

benjamin498de77dca627daf53 January 18, 2019
Nice how-to, but I got stuck at curl. I wish I knew more, I'm on a new droplet but I get:
curl: option -: is unknown
if I rewrite to curl fsSL.... and remove the - at the end
I get the download and them
curl: (6) Could not resolve host: apt-key

I must have horked a configuration somewhere....

[Reply](#) [Report](#)

benjamin498de77dca627daf53 January 23, 2019
my dumb.... "use the SSH Luke" ... the regular access terminal is not recommended, setup ssh login and curl works just fine.
sigh...

[Reply](#) [Report](#)

hgkrug1 February 21, 2019
Brian, thanks! Very useful article. One small issue I have picked up. I use Ubuntu 18.10 Desktop.

It appears to me the command:

```
sudo usermod -aG docker ${USER}
```

Is not working. I found the following to work:

```
sudo usermod -a -G docker ${USER}
```

Then, it will also help if you can add that \${USER} is replaced with your login name.

Then, when I get to the next command:

```
su - ${USER}
```

I get the following message:

```
su: Authentication failure
```

Any assistance you may offer?

Thanks!

Gert Kruger

[Reply](#) [Report](#)

chris32665 July 2, 2019

Adding the user to the group docker:
sudo gpasswd -a \$USER docker

Then reload the shell with command:

```
newgrp docker
```

Check user is in docker group with command:

```
groups
```

[Reply](#) [Report](#)

chiranthajtk February 26, 2019

It was a great & nice tutorial for me. Thank You lot of.

[Reply](#) [Report](#)

svandegar March 8, 2019

Thank you so much for this tutorial. It definitely helped me to get started with Docker.

[Reply](#) [Report](#)

jimmyolano March 24, 2019

Great, very well!

I tested it (same environment, 3 GB Memory / 60 GB Disk / TOR1 - Ubuntu 18.04.2 x64 and NodeJS 8) and worked exactly as described here, thanks a lot! 8-)

[Reply](#) [Report](#)

kev8144 March 26, 2019

Digital Ocean's tutorials are always great! For the first time I got stuck on one of your tutorials with getting Docker's stable version using curl - It could simply be a changed URL from Docker's side - but for anyone else stuck, Docker also has official directions as well:

<https://docs.docker.com/install/linux/docker-ce/ubuntu/>

Love you Digital Ocean - thanks for always coming through with the great tutorials.

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ratnaprasadkakani March 29, 2019

The best tutorial

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dixon1 April 6, 2019

Installing for 18.04.2 is giving significant warning messages about cgroups and swap. Here is what the install looked like according to this tutorial:

```
ubuntu@steam:~$ sudo apt install docker-ce
```

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  aufs-tools cgroupfs-mount containerd.io docker-ce-cli libltdl7 pigz
The following NEW packages will be installed:
  aufs-tools cgroupfs-mount containerd.io docker-ce docker-ce-cli libltdl7 pigz
0 upgraded, 7 newly installed, 0 to remove and 0 not upgraded.
Need to get 50.7 MB of archives.
After this operation, 243 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu bionic/stable amd64 containerd.io amd64 1.2.
Get:2 http://archive.ubuntu.com/ubuntu bionic/universe amd64 pigz amd64 2.4-1 [57.4 kB]
Get:3 http://archive.ubuntu.com/ubuntu bionic/universe amd64 aufs-tools amd64 1:4.9+2017091
Get:4 http://archive.ubuntu.com/ubuntu bionic/universe amd64 cgroupfs-mount all 1.4 [6,320
Get:5 https://download.docker.com/linux/ubuntu bionic/stable amd64 docker-ce-cli amd64 5:18
Get:6 http://archive.ubuntu.com/ubuntu bionic/main amd64 libltdl7 amd64 2.4.6-2 [38.8 kB]
```

```
Get:7 https://download.docker.com/linux/ubuntu bionic/stable amd64 docker-ce amd64 5:18.09.
```

<stuff omitted>

```
ubuntu@steam:~$ sudo systemctl status docker
```

```
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2019-04-06 18:22:01 UTC; 8s ago
     Docs: https://docs.docker.com
 Main PID: 23439 (dockerd)
    Tasks: 17
   CGroup: /system.slice/docker.service
           └─23439 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.407718215Z" level=warning m
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.407880192Z" level=warning m
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.407926386Z" level=warning m
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.409399121Z" level=info msg=
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.557178544Z" level=info msg=
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.631601718Z" level=info msg=
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.9999263493Z" level=info msg=
Apr 06 18:22:00 steam dockerd[23439]: time="2019-04-06T18:22:00.999719127Z" level=info msg=
Apr 06 18:22:01 steam systemd[1]: Started Docker Application Container Engine.
Apr 06 18:22:01 steam dockerd[23439]: time="2019-04-06T18:22:01.062271888Z" level=info msg=
```

```
ubuntu@steam:~$ lsb_release -a
```

```
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 18.04.2 LTS
Release:        18.04
Codename:       bionic
```

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^ [allenmlantz](#) April 9, 2019

0 If you're using **ARM64** instead of **AMD64** replace `[arch=amd64]` with `[arch=arm64]`

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The screenshot shows the DigitalOcean dashboard interface. At the top, there's a search bar and a 'Create' button. The main area is titled 'jonsmith' and shows '3 Resources'. Below this, there's a table with three rows, each representing a resource: 'jon-db' (https://jon-db.nyc3.digitaloceanspaces.com), 'jon-website' (https://jon-website.nyc3.digitaloceanspaces.com), and 'jon-backups' (https://jon-backups.nyc3.digitaloceanspaces.com). Each row has a 'More' button. At the bottom of the dashboard, there are several cards for creating new resources like Droplets, Managed Databases, and Load Balancers, along with links for Product Docs, Tutorials, and System Status.



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