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// Tutorial //

How To Install and Use Docker on Ubuntu 22.04

Published on April 26, 2022

DigitalOcean App Platform

Docker

Ubuntu

Ubuntu 22.04



By [Brian Hogan](#) and [Tony Tran](#)



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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 22.04. 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 22.04 server set up by following [the Ubuntu 22.04 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:

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```
$ 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 gpg --dearmor -o /usr/share/keyrings/docker.gpg
```

Add the Docker repository to APT sources:

```
$ echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu jammy stable" | sudo tee /etc/apt/sources.list.d/docker.list
```

Update your existing list of packages again for the addition to be recognized:

```
$ 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: 5:20.10.14~3-0~ubuntu-jammy
  Version table:
     5:20.10.14~3-0~ubuntu-jammy 500
        500 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages
     5:20.10.13~3-0~ubuntu-jammy 500
        500 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages
```

Notice that `docker-ce` is not installed, but the candidate for installation is from the Docker repository for Ubuntu 22.04 (Jammy).

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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
```

[Copy](#)

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: enable)
   Active: active (running) since Fri 2022-04-01 21:30:25 UTC; 22s ago
     TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
    Main PID: 7854 (dockerd)
      Tasks: 7
     Memory: 38.3M
        CPU: 340ms
    CGroup: /system.slice/docker.service
            └─7854 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.
```

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 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

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

Copy

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

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

Copy

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:

```
$ groups
```

Copy

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
```

Copy

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]
```

Copy

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As of Docker version 20.10.14, the complete list of available subcommands includes:

Output

attach	Attach local standard input, output, and error streams to a running cont
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

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

[Copy](#)

To view system-wide information about Docker, use:

```
$ docker info
```

[Copy](#)

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
```

[Copy](#)

The output will indicate that Docker is working correctly:

Output

```
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:bfea6278a0a267fad2634554f4f0c6f31981eea41c553fdf5a83e95a41d40c38
Status: Downloaded newer image for hello-world:latest
```

```
Hello from Docker!
```

```
This message shows that your installation appears to be working correctly.
```

```
...
```

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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
```

[Copy](#)

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

Output

NAME	DESCRIPTION	STARS
ubuntu	Ubuntu is a Debian-based Linux operating sys...	14048
websphere-liberty	WebSphere Liberty multi-architecture images ...	283
ubuntu-upstart	DEPRECATED, as is Upstart (find other proces...	112
neurodebian	NeuroDebian provides neuroscience research s...	88
open-liberty	Open Liberty multi-architecture images based...	51
...		

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
```

[Copy](#)

You'll see the following output:

Output

```
Using default tag: latest
latest: Pulling from library/ubuntu
e0b25ef51634: Pull complete
Digest: sha256:9101220a875cee98b016668342c489ff0674f247f6ca20dfc91b91c0f28581ae
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
```

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

Copy

The output will look similar to the following:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	1d622ef86b13	3 weeks ago	73.9M
hello-world	latest	bf756fb1ae65	4 months ago	13.3kB

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:

Copy

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

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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
```

[Copy](#)

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

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

[Copy](#)

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
```

[Copy](#)

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

Output

```
v12.22.9
```

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
```

[Copy](#)

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Output

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
```

Copy

You'll see output similar to this:

Output

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORT
1c08a7a0d0e4	ubuntu	"bash"	About a minute ago	Exited (0) 7 seconds ago	
587000e49d53	hello-world	"/hello"	5 minutes ago	Exited (0) 5 minutes ago	

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

```
$ docker ps -l
```

Copy

Output

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
1c08a7a0d0e4	ubuntu	"bash"	3 minutes ago	Exited (0) 2 minutes ago	

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 `1c08a7a0d0e4`:

```
$ docker start 1c08a7a0d0e4
```

Copy

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

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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 `dazzling_taussig`:

```
$ docker stop dazzling_taussig
```

[Copy](#)

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 adoring_kowalevski
```

[Copy](#)

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

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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-nod Copy
```

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 Copy
```

You'll see output like this:

Output

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
sammy/ubuntu-nodejs	latest	7c1f35226ca6	7 seconds ago	179 MB
...				

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

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Step 8 – Pushing Docker Images to a Docker Repository

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.

To push your image, first log into Docker Hub.

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

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 Copy
```

Then you may push your own image using:

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

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

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

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

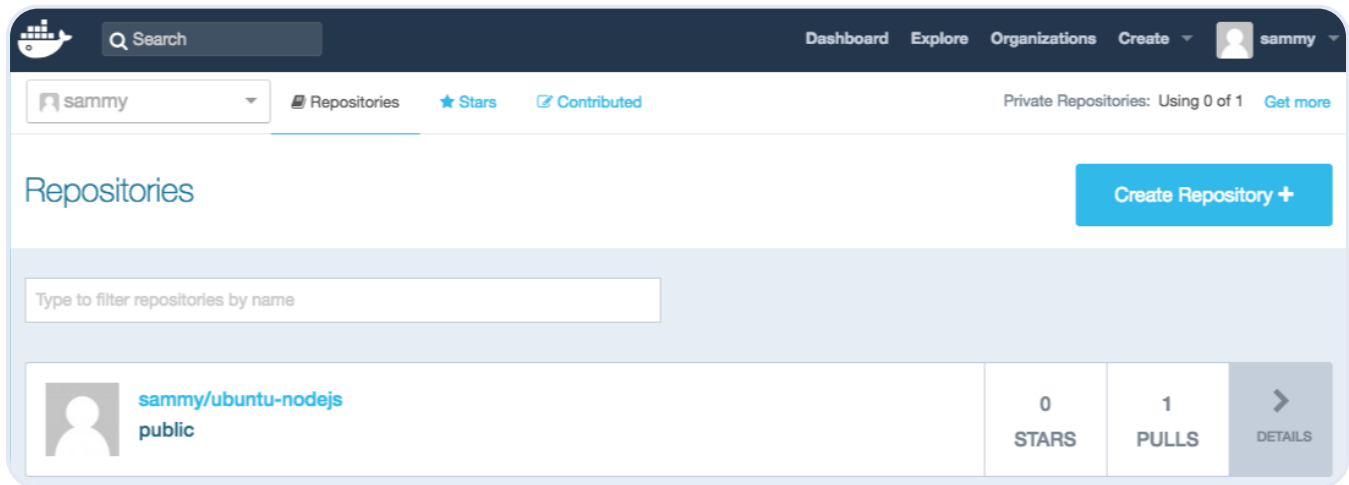
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```
a3b5c80a4eba: Pushed
7f18b442972b: Pushed
3ce512daaf78: Pushed
7aae4540b42d: Pushed
```

...

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]
```

```
e3fbbfb44187: Preparing
```

```
5f70bf18a086: Preparing
```

```
a3b5c80a4eba: Preparing
```

```
7f18b442972b: Preparing
```

```
3ce512daaf78: Preparing
```

```
7aae4540b42d: Waiting
```

```
unauthorized: authentication required
```

Thanks for learning with the DigitalOcean Community. Check out our offerings for compute, storage, networking, and managed databases.

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

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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.

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[john](#) • April 22, 2023



I love this tutorial SO MUCH. AND i love Digital Ocean so much !!! The quality of tutorials is always the best. Thank you!!

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I could not run the install part to the end, kept bumping into this error when running 'sudo apt update'

W: GPG error: <https://download.docker.com/linux/ubuntu> jammy InRelease: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 7EA0A9C3F273FCD8 E: The repository '<https://download.docker.com/linux/ubuntu> jammy InRelease' is not signed.

I had to install Docker following the official instructions ... any idea why this fails ?

[Reply](#)

[Jimmy Olano](#) • November 16, 2022



¡Hi! At step 6, help for Docker is `docker run --help` (double dash). Thanks for this tutorial, ¡very great! 👍

[Reply](#)

[Adolfo Hoyos](#) • October 24, 2022



For those having problems getting the docker service to run:

<https://stackoverflow.com/questions/74186195/docker-service-wont-start-on-ubuntu-22-04-on-wsl2/74186196#74186196>

[Reply](#)

11 00001 1000 0000070 0 0 0 0000

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daemon at unix:///var/run/docker.sock. Is the docker daemon running?. See 'docker run --help'. I have tried solutions at other forums but doesn't work.

[Reply](#)

[efa0930bb3fbf4bdf1950d569d44d0](#) • August 30, 2022



Thanks for this great tutorial! So basically you can jump in and use an environment created by someone. How would you ensure that the environment you use is secured? For example for a PHP webapp using LAMP stack, you would depend on linux, apache, php and mysql. How would you know all these components installed are not compromised? In the old days, I used to compiled everything from source and that would take the whole day!

[Reply](#)

[Hitesh D](#) • July 1, 2022



Appreciate your patience and support for us and thanks to the entire team who is helping thousands and lakhs of readers with the best articles/blogs on DEVOPS, AWS Architect and all such tools. Here in this current article there is a mistake observed without executing container how come root changes with the container id, pls observe and update. The command docker exec itself didnt run here but you mentioned

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](#):/#

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Thank you so much

but I see some differences from the steps on <https://docs.docker.com/engine/install/ubuntu/>

can you explain why?

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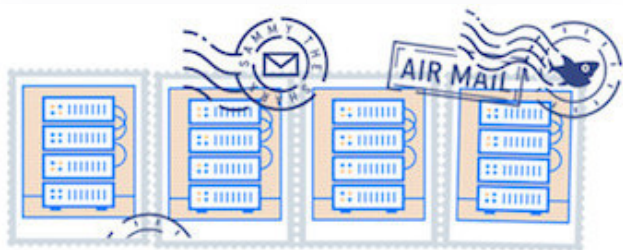
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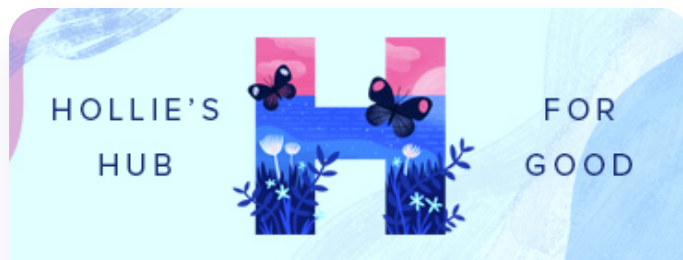
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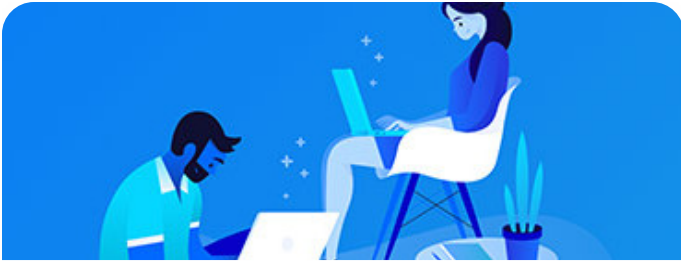
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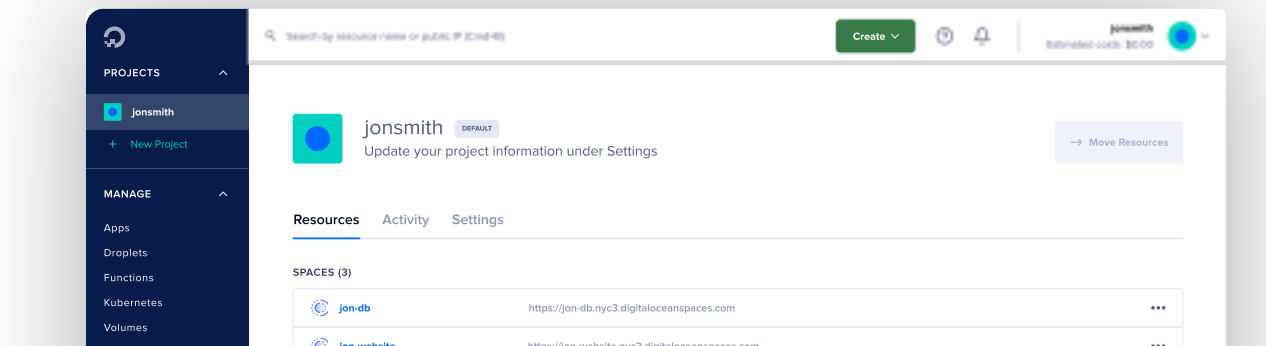
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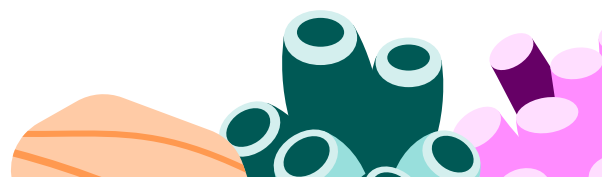
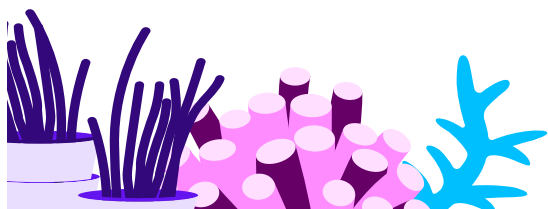
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