

Access a Linux Machine

The BLC-Framework runs on Linux. If you don't have access to a Linux machine, you can get a virtual machine on AWS, Google Cloud, or Digital Ocean. Setting up a virtual machine on Digital Ocean takes about ten minutes. The following section describes how to get started on Digital Ocean. If you already have a Linux machine, you can jump ahead to the installation steps.

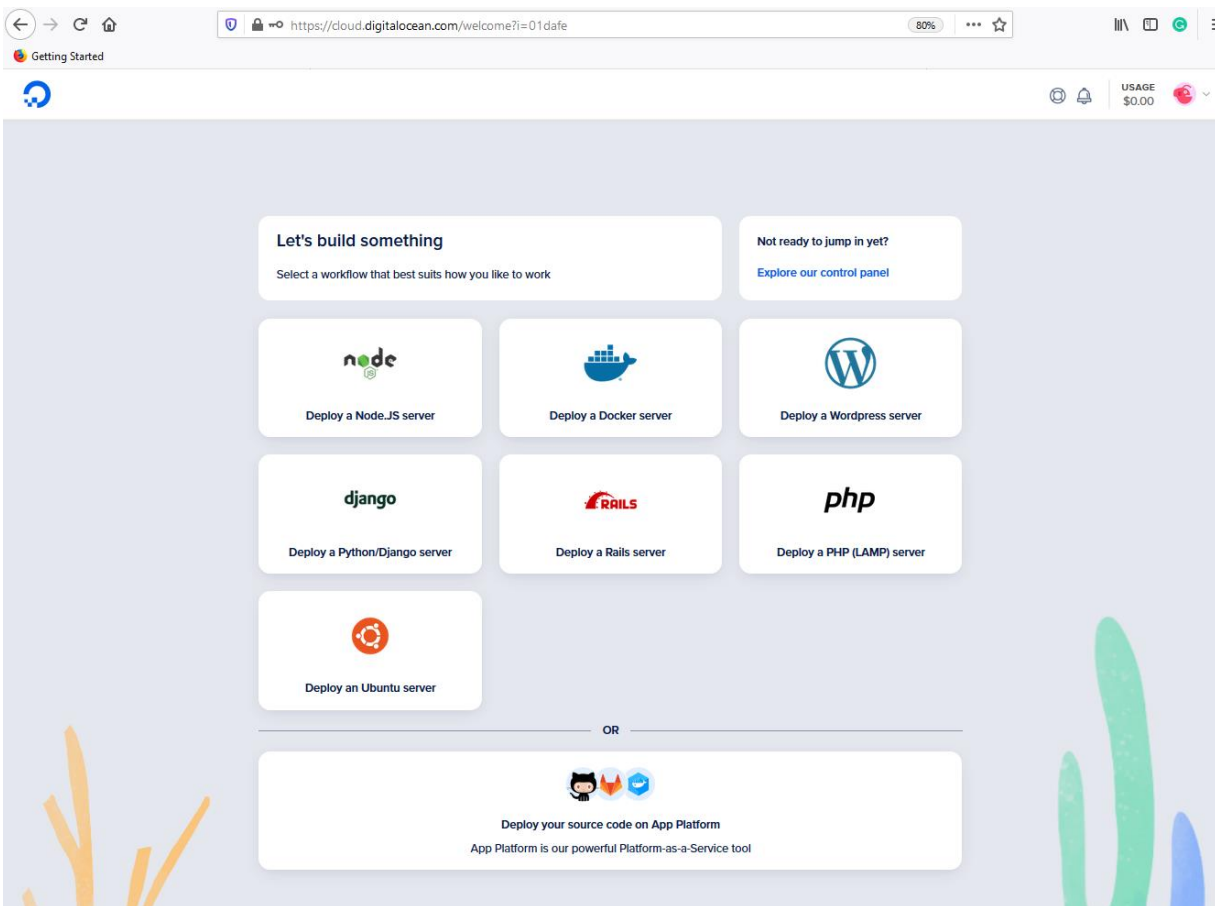
<https://www.digitalocean.com/>

Sign up for a new account

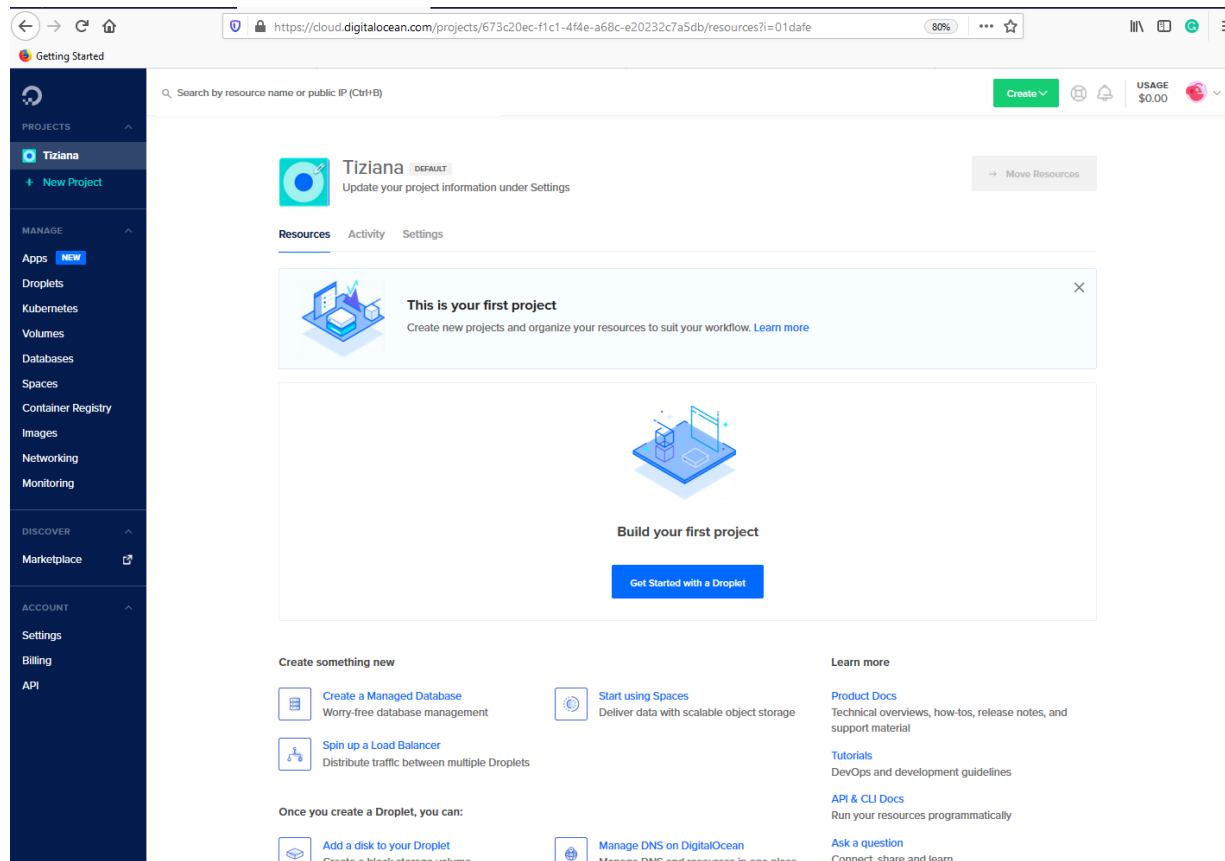
Add a credit card

Click on *Let's make something*

You will see a screen like:



Click on Explore our control panel. You will see a screen like:








Click on Get Started with a Droplet. You will see a page that looks like this:

Create Droplets

Choose an image ?

[Distributions](#) [Container distributions](#) [Marketplace](#) [Custom images](#)

 Ubuntu 20.04 (LTS) x64 ▾	 FreeBSD Select version ▾	 Fedora Select version ▾	 Debian Select version ▾	 CentOS Select version ▾
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Choose a plan

[Help me choose](#) ?

SHARED CPU	DEDICATED CPU			
Basic	General Purpose	CPU-Optimized	Memory-Optimized	Storage-Optimized NEW

Basic virtual machines with a mix of memory and compute resources. Best for small projects that can handle variable levels of CPU performance, like blogs, web apps and dev/test environments.

CPU options: ☐ Regular Intel with SSD ☒ Premium Intel with NVMe SSD NEW ☐ Premium AMD with NVMe SSD NEW

\$6/mo \$0.009/hour 1 GB / 1 Intel CPU 25 GB NVMe SSDs 1000 GB transfer	\$12/mo \$0.018/hour 2 GB / 1 Intel CPU 50 GB NVMe SSDs 2 TB transfer	\$18/mo \$0.027/hour 2 GB / 2 Intel CPUs 60 GB NVMe SSDs 3 TB transfer	\$24/mo \$0.036/hour 4 GB / 2 Intel CPUs 80 GB NVMe SSDs 4 TB transfer	\$48/mo \$0.071/hour 8 GB / 4 Intel CPUs 160 GB NVMe SSDs 5 TB transfer	\$96/mo \$0.143/hour 16 GB / 8 Intel CPUs 320 GB NVMe SSDs 6 TB transfer
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i Our Basic Droplet plans, formerly called Standard Droplet plans, range from 1 GB of RAM to 16 GB of RAM. [General Purpose Droplets](#) have more overall resources and are best for production environment, and [Memory-Optimized Droplets](#) have more RAM and disk options for RAM intensive applications.

Each Droplet plan includes free outbound data transfer which is shared between all Droplets each billing cycle. Inbound bandwidth to Droplets is always free. [Learn more](#) or [try our price calculator](#). ?

Select the \$24/m choice to make sure that you have enough RAM (4GB) to run the web interface and the data importer. Keep scrolling. The bottom of the page will look like:

Authentication ?



SSH keys

A more secure authentication method



Password

Create a root password to access Droplet (less secure)

Create root password *

Type your password



You will not be sent an email containing the Droplet's details or password. Please store your password securely.

Finalize and create

How many Droplets?

Deploy multiple Droplets with the same [configuration](#).

Choose a hostname

Give your Droplets an identifying name you will remember them by. Your Droplet name can only contain alphanumeric characters, dashes, and periods.

— 1 Droplet +

ubuntu-s-2vcpu-4gb-intel-nyc3-01

Add tags

Use tags to organize and relate resources. Tags may contain letters, numbers, colons, dashes, and underscores.

Type tags here

Select Project

Assign Droplets to a project

This project has been selected
as you only have one project



Tiziana



Add backups



Enable backups

RECOMMENDED

A system-level backup is taken once a week, and each backup is retained for 4 weeks.

\$4.80/mo (per Droplet)

20% of the Droplet price

Create Droplet

Create a root password that meets the requirements and click Create Droplet (the Create Droplet button turns from gray to green when you have entered an acceptable root password). In the next page, you will see the address of the Droplet you created. Note the IP address. You will need it to access your new Linux machine and later to access the BLC framework.



Battery Info

DEFAULT

Update your project information under Settings

→ Move Resources

Resources Activity Settings

DROPLETS (1)



-s-fvcpu-2gb-nyc3-01

104.236.80.52



Go to a command window (CMD in Windows or Terminal on a MAC) and type:

```
ssh root@your IP
```

Follow the steps to login. You will see a screen like:

```
root@ubuntu: ~  
(c) 2019 Microsoft Corporation. All rights reserved.  
C:\Users\vdeange>ssh root@104.236.80.52  
root@104.236.80.52's password:  
Permission denied, please try again.  
root@104.236.80.52's password:  
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-140-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Mon Apr 19 05:21:52 UTC 2021  
  
System load:  0.02      Users logged in:      1  
Usage of /:   8.9% of 48.29GB  IP address for eth0:  104.236.80.52  
Memory usage: 90%      IP address for eth1:  10.108.0.2  
Swap usage:   0%        IP address for docker0: 172.17.0.1  
Processes:   141        IP address for br-18c730c062d7: 172.18.0.1  
  
31 packages can be updated.  
13 of these updates are security updates.  
To see these additional updates run: apt list --upgradable  
  
New release '20.04.2 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
Last login: Mon Apr 19 05:06:46 2021 from 98.185.251.32  
root@ubuntu:~#
```

Congratulations! You have created your first Linux virtual machine and can now install the BLC-Framework.

Install required packages on UBUNTU

Please install docker-compose, docker, unzip, and pip3 using the commands below.

```
sudo apt update  
sudo apt install docker-compose  
sudo apt install docker.io  
sudo systemctl enable --now docker  
sudo apt install unzip  
sudo apt install python3-pip
```