

Digital Ocean Droplet

In this lesson, We will learn about droplets in Digital Ocean. You should have already created your Digital Ocean account in the first module while setting up your accounts or decided to use the alternative to DigitalOcean if you faced issues in linking your card. In case you have not yet tried setting up the DigitalOcean account already then follow the steps below to do so. However, in case you are looking for the alternatives to DigitalOcean, please skip to the next section.


Do not confuse droplet with water drops, DigitalOcean calls its cloud servers **Droplets** which accounts to the same thing as **Instances** by AWS(Amazon Web services). Actually, droplets are just a fancy term for Operating system. It can be various versions of Ubuntu, Fedora or CentOS.

Following are the steps to deploy a droplet on Digital Ocean-

Step 1: Creating an account on DigitalOcean

Important Note: This experiment requires that you use your Debit Card for creating a server. Although you will not be charged since you shall receive a \$10 credit with the link provided below, you are to remember to cancel your subscription when nearing the end of the validity period to avoid being charged. This is a 3rd party service and Bolt IoT or Internshala is not responsible if you are charged after the validity period in case you forget to cancel your subscription.

First we need to create a digitalocean account. Please click here <https://m.do.co/c/679338b50344> (<https://m.do.co/c/679338b50344>) and create a new account. Make sure that you use the link above to get a \$10 credit. You may also create an account directly via <https://www.digitalocean.com/> (<https://www.digitalocean.com/>), however, in this case you will not get the credit. Type your email id and password for Signing up and you will receive an account verification email. Open your email and click on the link to confirm your account.


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Free credit active: You have a \$10 credit from a friend. [Complete registration to get started.](#) ✕






Cloud computing, designed for developers.


[Create an Account](#)

By signing up, you agree to the [Terms of Service](#).

 Droplets Images Networking API Support 🔍

Droplets

Img	Name	IP Address	Created
	sammy-ubuntu-fgl-mgc3-05 1 GB Memory / 20 GB Disk / 1MPC2	104.131.165.5	You're Awesome! More ▾
	sammy-ubuntu-fgl-mgc3-04 1 GB Memory / 20 GB Disk / 1MPC2	45.55.45.209	Let's get to work! More ▾
	sammy-ubuntu-fgl-mgc3-03 1 GB Memory / 20 GB Disk / 1MPC2	104.236.39.234	Happy coding! More ▾
	sammy-ubuntu-fgl-mgc3-02 1 GB Memory / 20 GB Disk / 1MPC2	104.236.52.182	You're Awesome! More ▾
	sammy-ubuntu-fgl-mgc3-01 1 GB Memory / 20 GB Disk / 1MPC2	45.55.190.183	Go change the world! More ▾




After confirming your account, you need to add your billing details.

Billing Info

Select your preferred payment method and enter your details. We use this info for account verification, your credit card won't be charged now.

[Credit / Debit Card](#) [PayPal](#)

ENTER CARD DETAILS

 Card number

MM / YY CVC

BILLING ADDRESS

First Name

Last Name

Street Address

City

State / Region

Postal Code

Phone Number

Save Card

* All Fields Required


FAQ: I'm using the debit/credit card. It's showing that my card is declined. Why?


This is an issue at the end of your bank. Please contact them for the same. We at Bolt IoT will not be able to resolve the issue about the card being declined. Alternatively, you can try with a different credit or debit card if you own one or if you can borrow another one.

In case you are not able to resolve the issue than have a look at the next section on which will take you through installing a Linux system on your computer which can work as an alternative to Digital Ocean.

Step 2: Choosing an Image

In this step, we will choose the appropriate image(version and type of OS) of droplet for this training. First, click on Create button and choose Droplet from the drop-down menu and the 'Create droplet' screen will appear.

 [Droplets](#) [Spaces](#) [Images](#) [Networking](#) [Monitoring](#) [API](#) [Support](#)

Create 

Enhance the security of your account by enabling two-factor authentication. [Enable Two-factor Authentication](#)

Droplets







Search by Droplet name

At the time of this writing, the 64-bit Ubuntu 16.04.03 image is selected by default and we will use the same version for this training.

Choose an image ?

Distributions

One-click apps

 Ubuntu 16.04.3 x64	 FreeBSD Select version	 Fedora Select version	 Debian Select version	 CoreOS Select version	 CentOS Select version
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1710 x64
 17.04 x64
 17.04 x32
 16.04.3 x64

Step 3: Choosing a Size

In this step we will choose the size of the droplet i.e. the amount of RAM and storage space it should have. I will suggest you to choose the \$5/month plan because it is enough for this training and you already have \$10 credited, which you can use for two months.

Choose a size

Standard

High Memory

High CPU









Enough RAM, CPU, and storage space needed to get applications off the ground.

\$5/mo \$0.007/hour 512 MB / 1 CPU 20 GB SSD disk 1000 GB transfer	\$10/mo \$0.015/hour 1 GB / 1 CPU 30 GB SSD disk 2 TB transfer	\$15/mo \$0.022/hour 3 GB / 1 CPU 20 GB SSD disk 3 TB transfer	\$20/mo \$0.030/hour 2 GB / 2 CPUs 40 GB SSD disk 3 TB transfer	\$40/mo \$0.060/hour 4 GB / 2 CPUs 60 GB SSD disk 4 TB transfer	\$80/mo \$0.119/hour 8 GB / 4 CPUs 80 GB SSD disk 5 TB transfer
\$160/mo \$0.238/hour 16 GB / 8 CPUs 160 GB SSD disk 6 TB transfer	\$320/mo \$0.476/hour 32 GB / 12 CPUs 320 GB SSD disk 7 TB transfer	\$480/mo \$0.714/hour 48 GB / 16 CPUs 480 GB SSD disk 8 TB transfer	\$640/mo \$0.952/hour 64 GB / 20 CPUs 640 GB SSD disk 9 TB transfer		

Step 4: Choosing a Datacenter Region

Datacenter region is the place where our droplet will be deployed. It's like someone has bought a computer for you in that place. For the best performance, choose the data center nearest to you and your users. More distant server locations may increase the server's latency without providing any practical benefits. I am from India, so I keep Bangalore as the default datacenter region.

Choose a datacenter region

 New York 1 2 3	 San Francisco 1 2	 Amsterdam 2 3	 Singapore 1	 London 1	 Frankfurt 1
 Toronto 1	 Bangalore 1				

Step 5: Finalizing and Creating.

Once you have selected your options, click Create. A progress bar displays how close your Droplet is to being ready.

Select additional options ?

☐ Private networking ☐ Backups ☐ IPv6 ☐ User data ☐ Monitoring

Add your SSH keys ?

[New SSH Key](#)

Finalize and create

How many Droplets?

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

—	1 Droplet	+
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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.

ubuntu-512mb-blr1-01

[Add Tags](#)

Create

After successful creation of droplet, you will receive an email from DigitalOcean with your droplet(Ubuntu server) login credentials.

Step 6: How do I cancel my account/subscription?

After completion of the IoT training, do not forget to cancel your account otherwise you might be charged. You can cancel your account through the control panel, under the settings tab. First, destroy any Droplets(Ubuntu server) active on your account, resolve any outstanding billing and then click "Deactivate Account."

Have a look at the next section if you are unable to setup your account on Digital Ocean.

PREV

NEXT

Forum

SEARCH

Q. Can we work without digital ocean?

Yes,

If you don't want to use DigitalOcean, please proceed to the next screen. We have given steps on how to create a virtual server on your computer.

Q. I didn't receive any \$10 credits on my Credit/Debit card. What shall I do now?

Please sign up using the link that we have provided. Once you have signed up, the 10\$ credit will be available to you on your billing dashboard. Please note that the 10\$ amount won't be shown in your credit/debit card.

Q. I'm using the debit/credit card. It's showing that my card is declined. Why?

This is an issue at the end of your bank. Please contact them for the same. We at Bolt IoT will not be able to resolve the issue about the card being declined. Alternatively, you can try with a different credit or debit card if you have own or if you can borrow.

In case you are not able to resolve the issue than have a look at the next section on which will take you through installing a Linux system on your computer which can work as an alternative to Digital Ocean.

Q. Can I trust DigitalOcean with my card?

Digital Ocean is a company that is providing cloud services for a lot of years. Digital Ocean can be trusted as it does not store your card details in plain text. It only asks your card details for verification purposes.

Q. Will I have lifetime access to Ubuntu server?

The Ubuntu Server on Digital Ocean does not have lifetime access. In order to get lifetime access, you will have to pay for it to Digital Ocean to continue its usage.

If you have installed Ubuntu on your local system, then Yes, you can access it anytime you want to.

[View more](#)

Ask your doubts to the instructor personally if they are not already answered on forum.



ASK THE INSTRUCTOR

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