Hosting

Hosting

1   **Shared Hosting**

2   **Cloud Hosting**

Hosting

All websites have information in the form of data which is stored on servers so that it can be accessed anytime through the internet. To understand different types of hosting, you need to first understand servers.

Servers

Servers are machines that store and serve data on request. USB is a server, as it stores your data and when you attach it to a USB port it shows you the files and data in it. Similarly all machines that store data and serve it on request are servers.

Servers can be online and offline. Offline servers are your laptop, USB, mobile phones and anything that shows you data without using the internet. Online servers are similar machines which store information and data and are only accessible through the internet.

Online servers are provided by hosting providers, companies which are in the business of creating and managing online servers. For example, Godaddy is a hosting provider that offers a range of different types of online servers that you can use to store and run your websites and apps. All online servers have an IP address, which is used to access the information on that server.

Shared Hosting	Cloud Hosting
1. Multiple websites are hosted on a single server.	1. Dedicated/individual server for each website
2. All websites have a common IP address	2. Each website has an exclusive IP address
3. If the server crashes, all websites go down together	3. If the server crashes, only the website hosted on it crashes, does not affect other websites
4. If you buy shared hosting, you get server space in a server that is also being used for other websites	4. If you buy cloud hosting, you get server space in a dedicated server that is exclusively being used for only your website

You cannot make any technical changes to the server as it is shared	You can make whatever technical changes you want to perform in your cloud server
Good for simple business websites	Good for e-commerce and product based websites
Prices are generally affordable and cheap	Prices are dynamic based on server usage, they go up with the no. of users on your website.

Setting Up Cloud Hosting for Wordpress Websites

Since we will be training you for website design & development ahead in the course on wordpress websites, we will teach you how you can quickly setup hosting for your wordpress website.

Guidelines to select a cloud hosting provider for beginners:
- Choose a provider where setting up a server is easy
- Options like one-click installs are available
- Pricing has definite plans with fixed pricing per month
- Has good community support and resources to read and learn

Digital Ocean (https://www.digitalocean.com/) is a platform which has all the aforementioned guidelines for choosing a cloud hosting provider. We will also be using Digital Ocean to teach you how to setup cloud hosting for your wordpress website.

Step 1 : **Make an account on Digital Ocean**

1. Visit https://www.digitalocean.com/
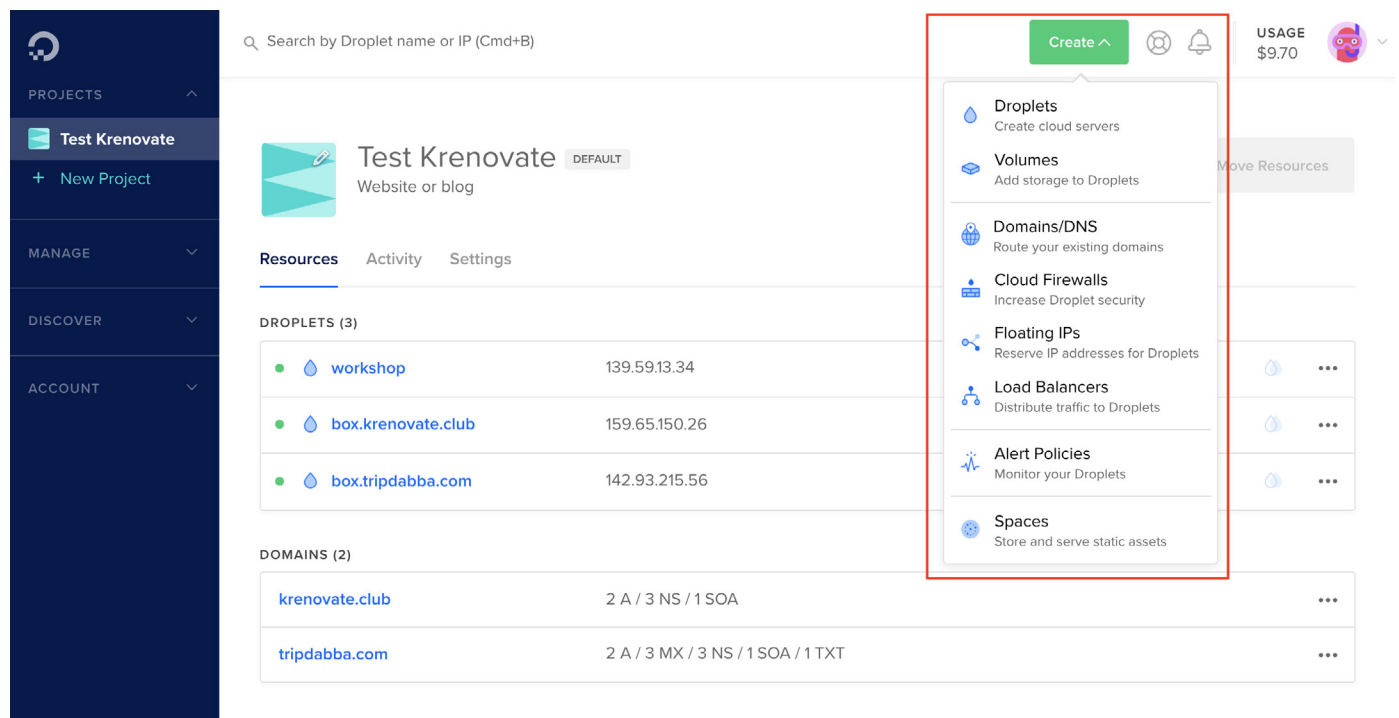2. Use the sign up form as shown in the image below to make an account
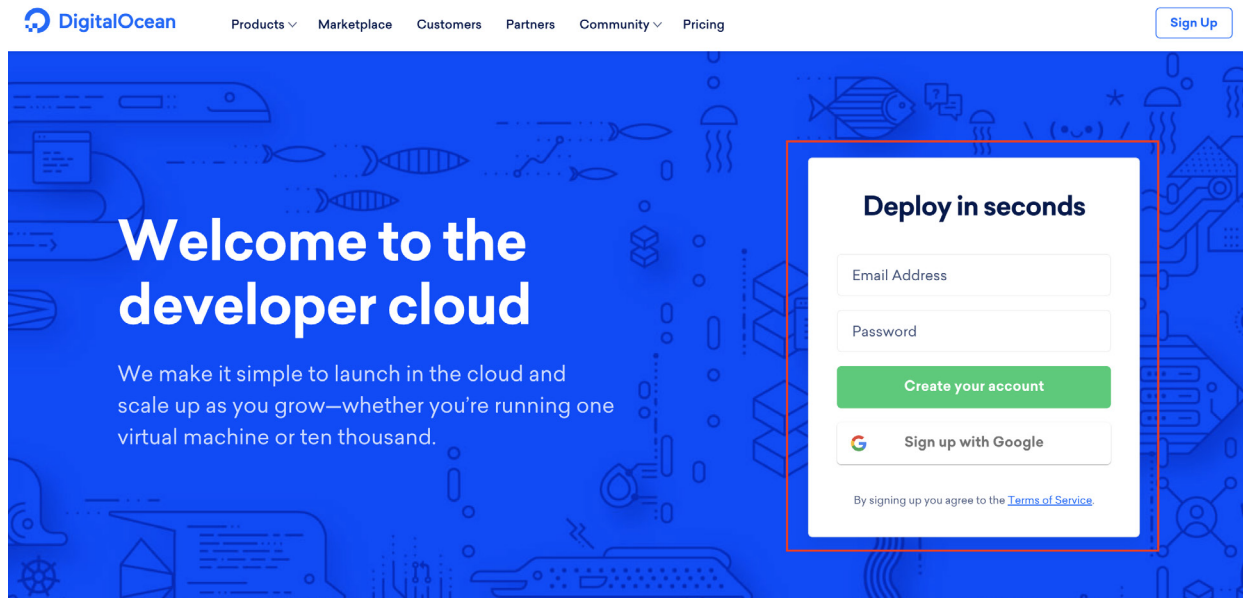
Step 2 : **Create a Droplet (Cloud Hosted Server) with One-click Wordpress Installation**

1. Log in and click the 'CREATE' button and choose 'DROPLETS' in the dropdown as shown in the image below

2. Click on 'Marketplace' which has all the options for one-click installations as shown in the image below

3. Choose the option of 'WORDPRESS' from the list in the marketplace, it will be at the end of the list as shown in the image below

4. Choose a 'STANDARD' plan it's good enough for any wordpress business website, and select the pricing plan from the available plans, I would suggest you to go get started with $5 plan, as shown in the image below and you can always upgrade as per your needs.

5. Leave the Backup and Block Storage sections as default, as shown in the image below

6. Choose a 'DATACENTER', this step is important. You should always choose a datacenter which is geographically nearest to your prospective customers. For example, if you are building a website for users who stay in India, you should select 'Bangalore' as a datacenter. Having a datacenter in the same country helps to serve data more quickly to the people visiting the website, making your website experience better for your website visitors.

7. Name Your Droplet, and Finally Click on 'CREATE' as shown in the image below

8. Name Your Droplet, and Finally Click on 'CREATE' as shown in the image below

9. Droplet creation loader is visible on your dashboard and only takes a few seconds to be created as shown in the image below

10. IP address and a success email on the registered email ID are two things you should see and receive on the successful creation of your droplet with wordpress installed on it, as shown in the images below

Step 3 : **Change the Password For Your Droplet Server.**

This is a very important step, to secure your cloud server and also a compulsory step after successful droplet creation. Follow the following sub-steps to successfully change password of your server.

    1. Access your droplet console, click on the 3 dots in front of your droplet name and click on console from the dropdown as shown in the image below:
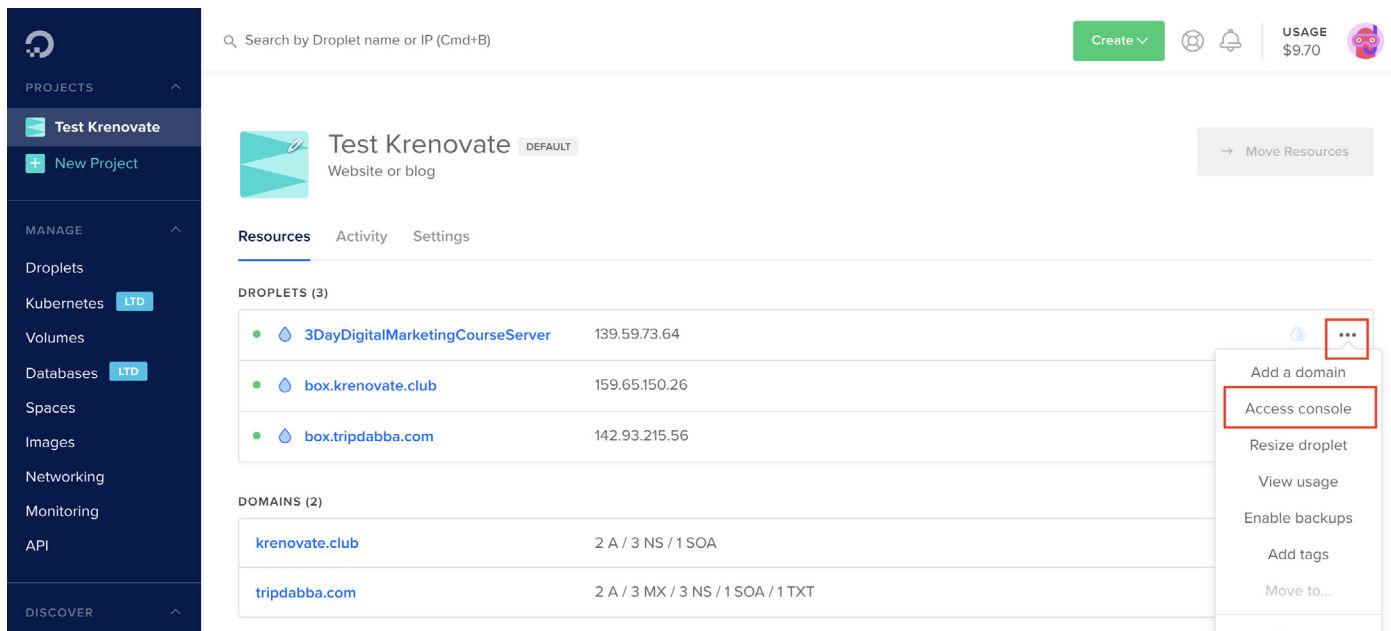
    2. Enter your username (root) on the console screen, you would have received a username and password in your registered email id, as shown in the image below:
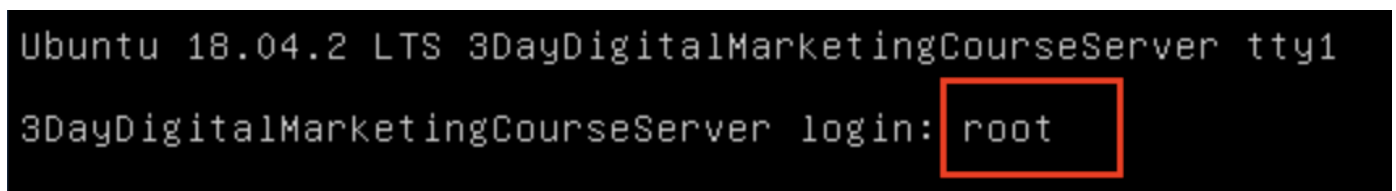
3. Enter your password, and the system will automatically tell you to create a new password and confirm the same as shown in the image below. Please note that whatever you type in the password field is not visible for security reasons. So please type carefully and do not forget the new password you create on this step.

```
Ubuntu 18.04.2 LTS 3DayDigitalMarketingCourseServer tty1

3DayDigitalMarketingCourseServer login: root
Password:
You are required to change your password immediately (root enforced)
Changing password for root.
(current) UNIX password:
Enter new UNIX password:
Retype new UNIX password: _
```

4. Exit the console after you see that you have successfully logged into your server. The screen will display a message like shown in the image below:

```
    After connecting to the Droplet for the first time,
    immediately add the WordPress administrator at http://139.59.73.64.

For help and more information, visit http://do.co/wordpress1804

***********************************************************************
To delete this message of the day: rm -rf /etc/update-motd.d/99-one-click

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

This script will copy the WordPress instalation into
Your web root and move the existing one to /var/www/html.old
--------------------------------------------------
This setup requires a domain name.  If you do not have one yet, you may
cancel this setup, press Ctrl+C.  This script will run again on your next login
--------------------------------------------------
Enter the domain name for your new WordPress site.
(ex. example.org or test.example.org) do not include www or http/s
--------------------------------------------------
Domain/Subdomain name: exit_
```

Step 4 : **Complete the wordpress installation on your droplet (Server) by following the steps below.**

1. Choose Wordpress Language. Open the IP address of your new droplet in Google Chrome or any other browser and select the language in which you would like to manage your wordpress website as shown in the image below

2. Enter basic details and click on 'Install' to complete Wordpress installation on your droplet, as shown in the image below:
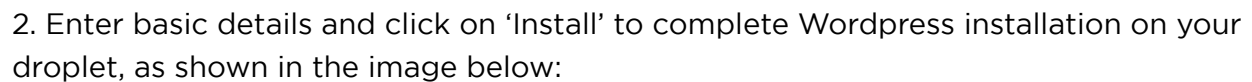
3. Wordpress successfully installed screen should be visible to you, as shown in the image below
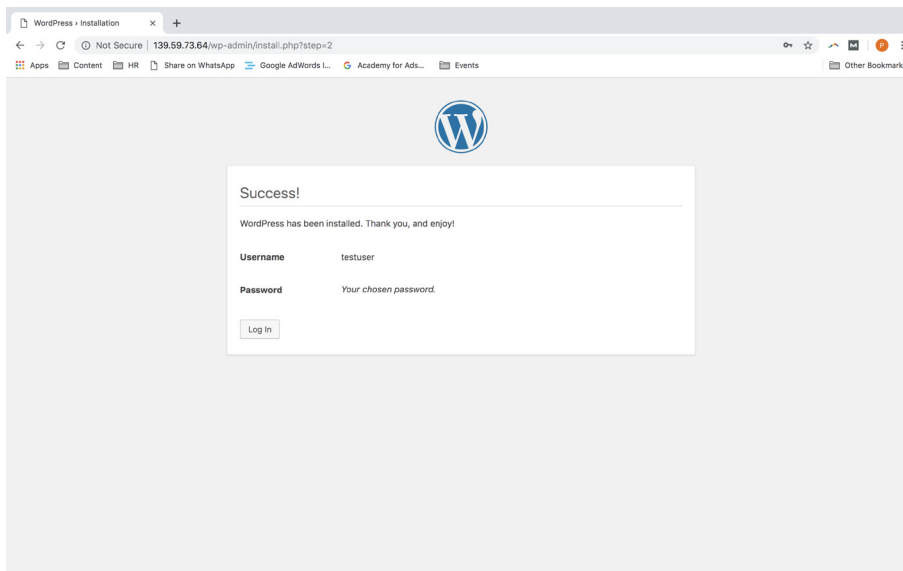
4. Open your new wordpress website by visiting the IP address in a browser, your new fresh wordpress website should look like as shown below:

You just need to add an A Record in your DNS records with the IP address of your new droplet, so that your new website becomes accessible on your domain name.

Step 4 : **Complete the wordpress installation on your droplet (Server) by following the steps below.**
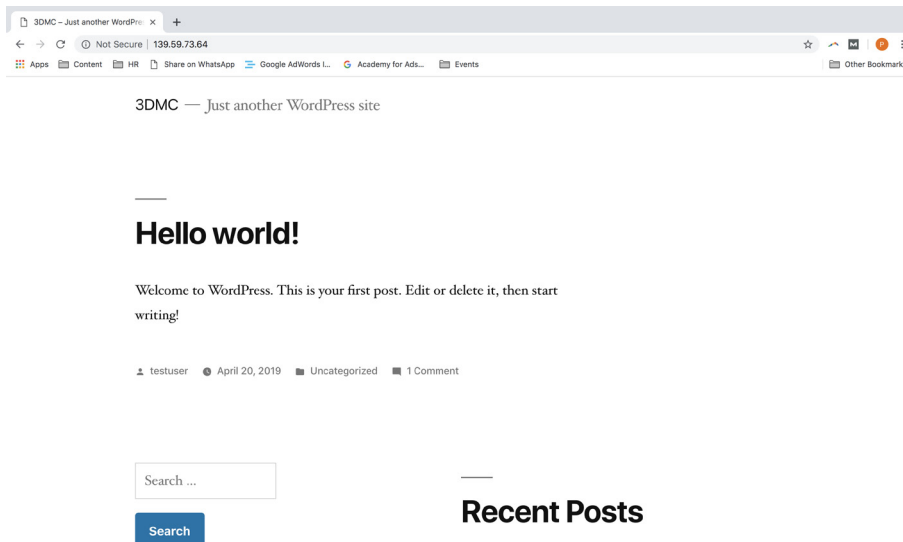
1. Choose Wordpress Language. Open the IP address of your new droplet in Google Chrome or any other browser and select the language in which you would like to manage your wordpress website as shown in the image below

2. Enter basic details and click on 'Install' to complete Wordpress installation on your droplet, as shown in the image below: