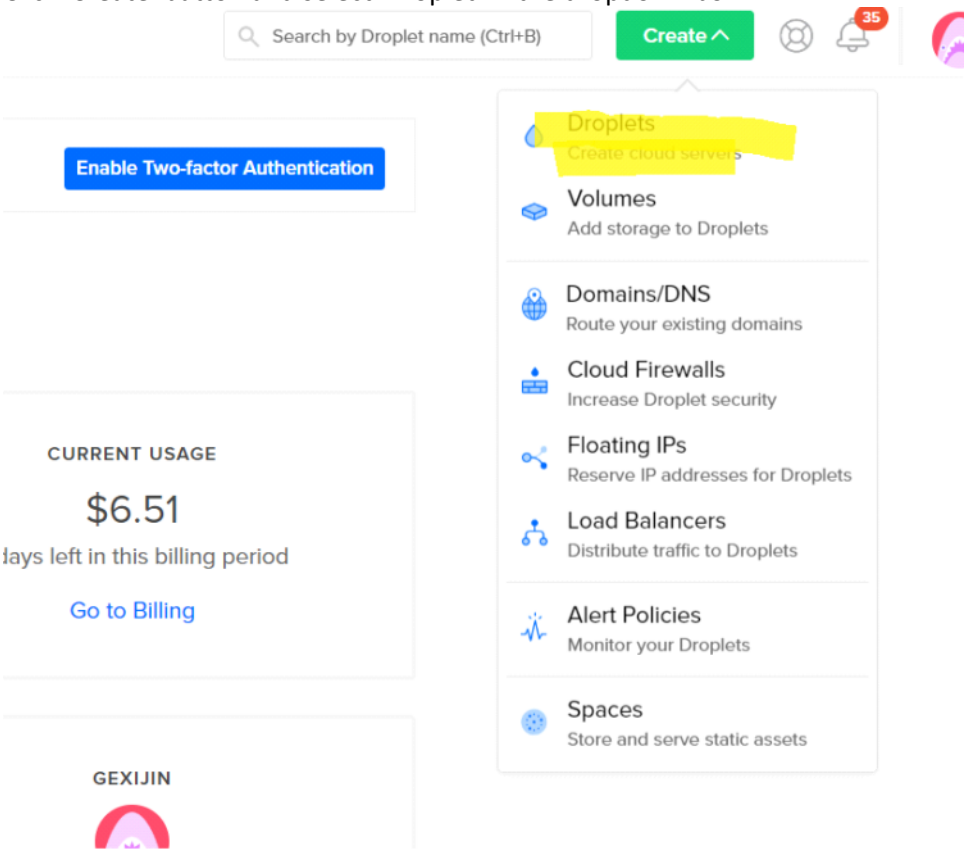
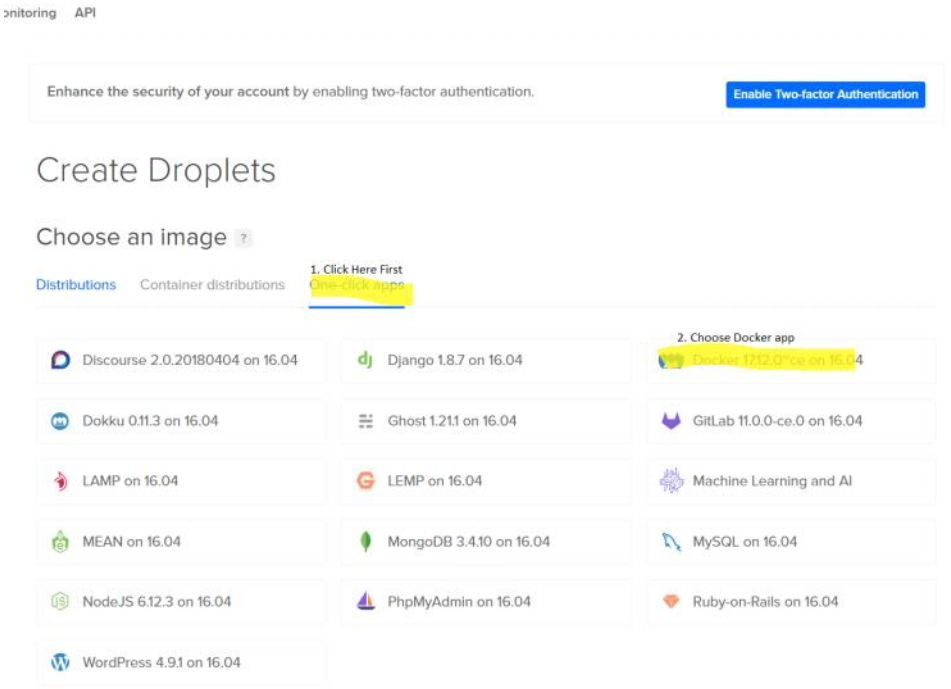
New Server Configuration - Digital Ocean

Wednesday, June 27, 2018 9:28 AM

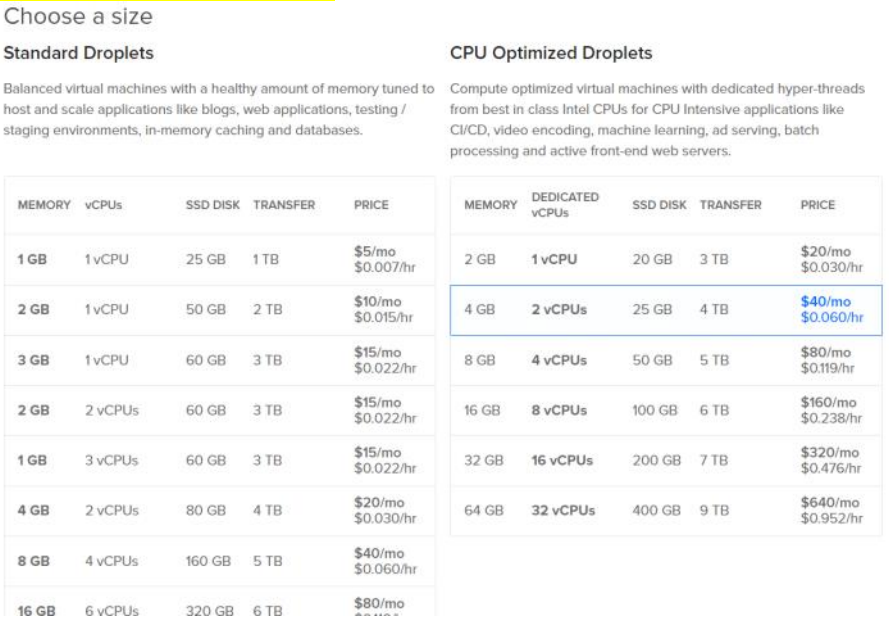
1. Login to digital ocean
2. Create Droplet with Docker App
    a. Click 'Create' button and select 'Droplet' in the dropdown box



    b. In the new page, click on 'One-click apps' and choose 'Docker' App



c. Scroll down in the same page and select droplet size.
Please check with Dr. Ge for the droplet size. Current suggestion is CPU Optimized 4G Memory, 2 cpu, 25G SSD one.



d. Region and other option.
We pickup San Francisco region, and additional option are not used.

e. Wait until droplet created and built
Once droplet app built, Dr. Ge will receive an email from digital ocean, contains the IP and root password of this droplet.

3. Login to the droplet.
After login to the droplet, system will ask you to change the default root password.
4. Clone code from github:
   a. Run following command on droplet command line
   git clone https://github.com/iDEP-SDSU/idep.git
   b. A folder called 'idep' will be created
5. Build up the image:
   a. Jump into idep folder:

cd idep

b. Run setup script:
sudo nohup sh setup.sh
Here:
sudo is required for script building up docker image
nohup keep script running even your SSH connection is lost
System will ask you to input your root password.

c. The image building process will take one to two hour.

6. After the script finish running, check docker image using:
docker image -ls
There should at least have 2 image which names:
Webapp and *Nignx*
Webapp image size around 2GB
Nignx image is several hundred MB
Also, there should be a new folder *data/* created in idep/
Which includes:
convertIDs.db (file)
data_go/ (folder)
geneInfo/ (folder)
motif/ (folder)
pathwayDB/ (folder)
They are the data we need for running server
Data set change? - please check maintain FQA section 2.
7. Run Service:
Under idep/ folder, run follow command to start service:
docker-compose up -d --scale webapp=15
Scale change? - please check maintain FQA section 3.