Universidad Modelo



Escuela de Ingeniería.

Carrera: Ingeniería en Desarrollo de Tecnología y Software

Asignatura: Herramientas de desarrollo de software

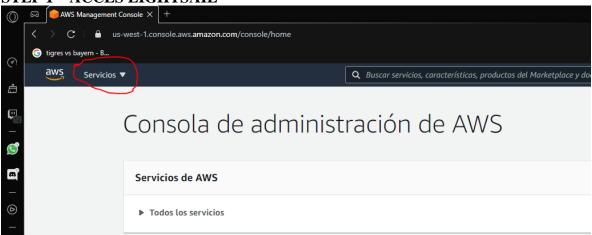
Nombre del Profesor: Mtro. Alfredo José Bolio Domínguez

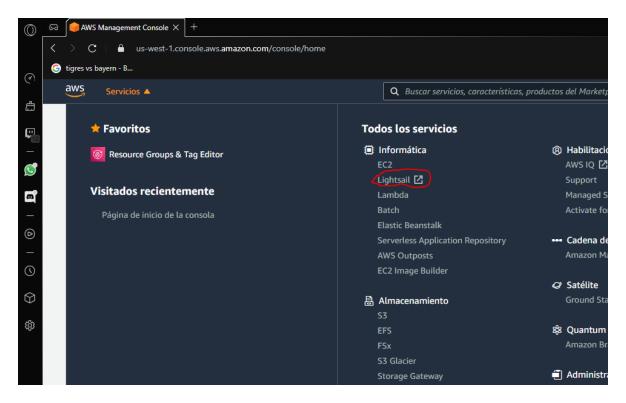
Nombre de la Actividad: Evidencia balanceador de carga

Fecha de Entrega: miércoles 10 de marzo de 2021

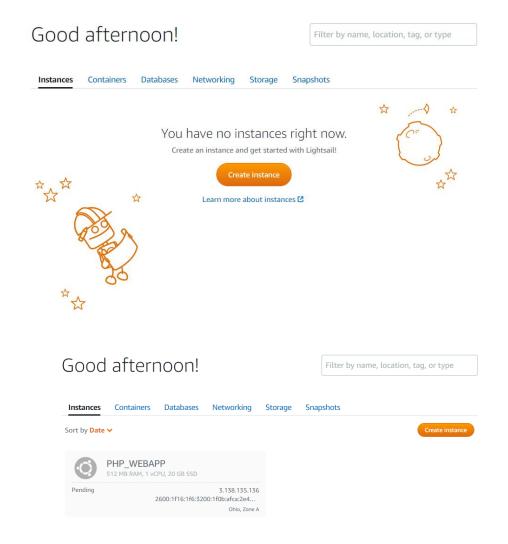
Nombre del Alumno: Luis Alberto Sánchez Rios

STEP 1 - ACCES LIGHTSAIL

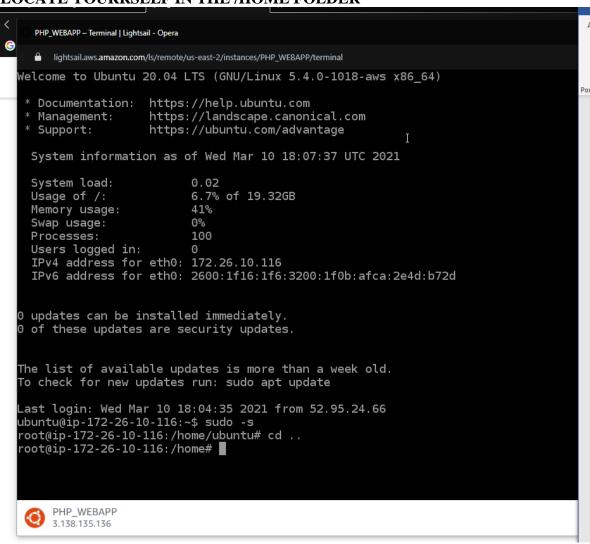




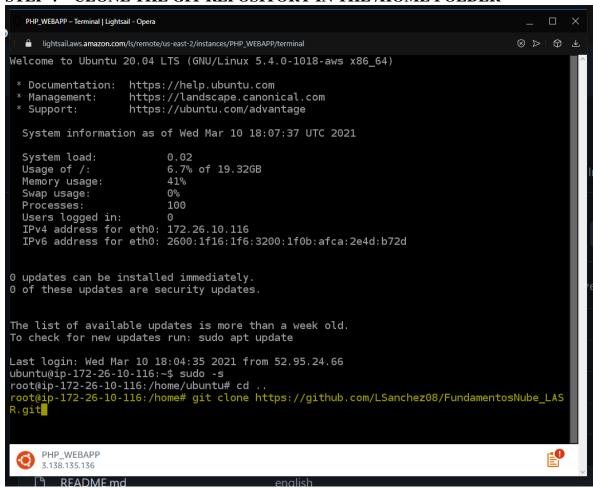
STEP 2 – CREATE INSTANCE

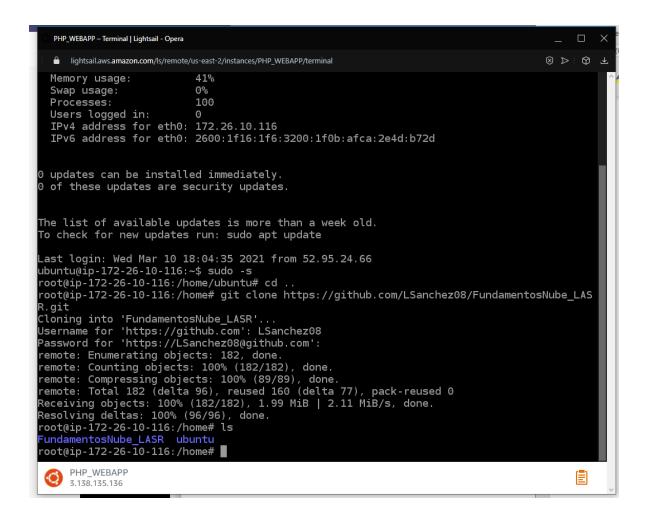


STEP 3 – OPEN THE INSTANCE'S COMMAND PROMPT, LOG IN AS ROOT, LOCATE YOURRSELF IN THE /HOME FOLDER

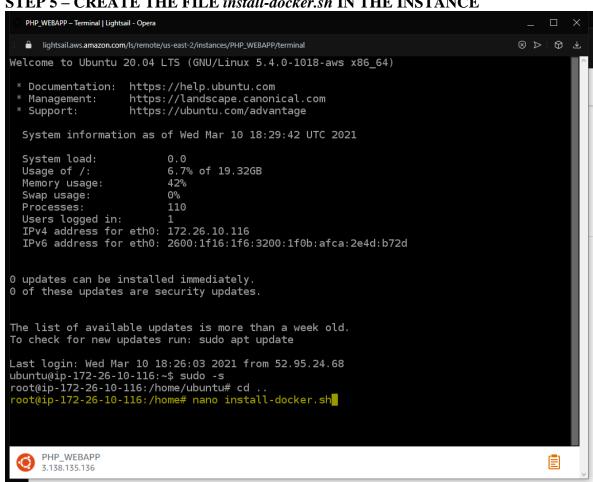


STEP 4 - CLONE THE GIT REPOSITORY IN THE /HOME FOLDER



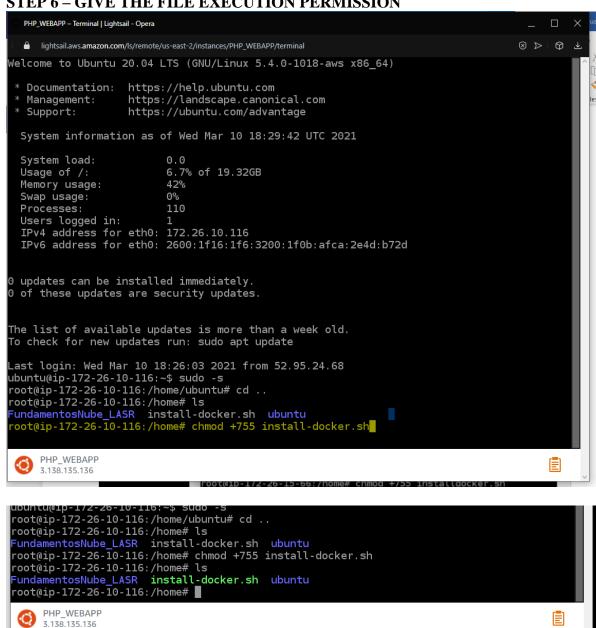


STEP 5 – CREATE THE FILE install-docker.sh IN THE INSTANCE

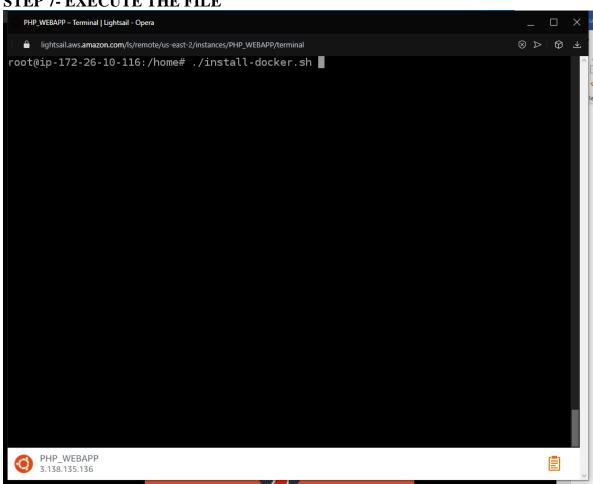


```
sudo apt-get update
sudo apt-get install \
         apt-transport-https \
ca-certificates \
         curl \
         gnupg-agent \
         software-properties-common
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
sudo apt-key fingerprint 0EBFCD88
sudo add-apt-repository \
"deb [arch=amd64] https://download.docker.com/linux/ubuntu \
         $(lsb_release -cs) \
         stable"
sudo apt-get update
sudo apt-get install docker-ce docker-ce-cli containerd.io
sudo curl -L
         "https://github.com/docker/compose/releases/download/1.25 .5/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
sudo chmod +x /usr/local/bin/docker-compose
sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
                                                 ^W Where Is
^\ Replace
^G Get Help
                ^O Write Out
                                                                                  ^C Cur Pos
^ Go To L
^X Exit
                ^R Read File
                                    Replace
                                                                                     Go To Line
```

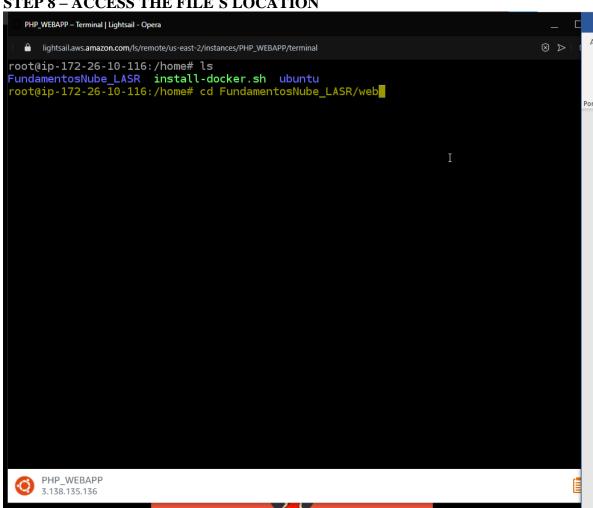
STEP 6 – GIVE THE FILE EXECUTION PERMISSION



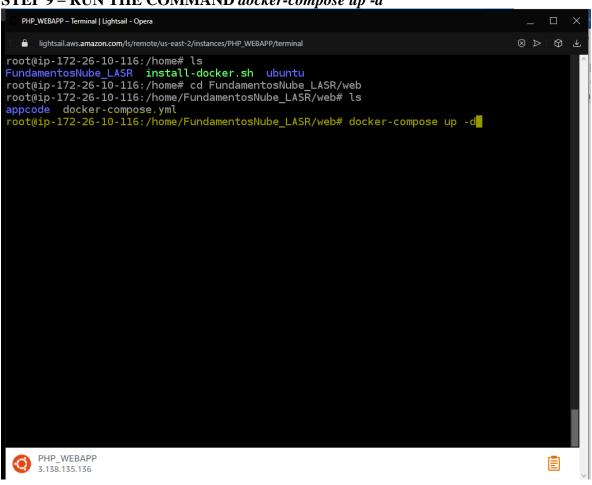
STEP 7- EXECUTE THE FILE

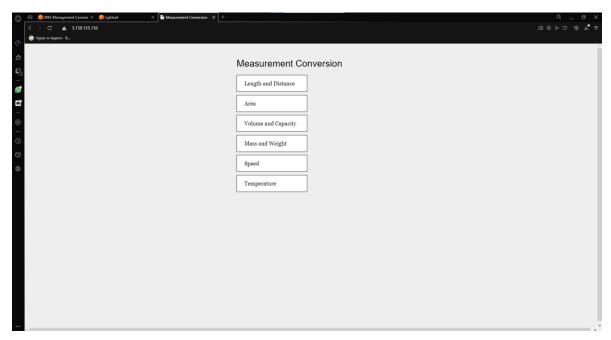


STEP 8 – ACCESS THE FILE'S LOCATION

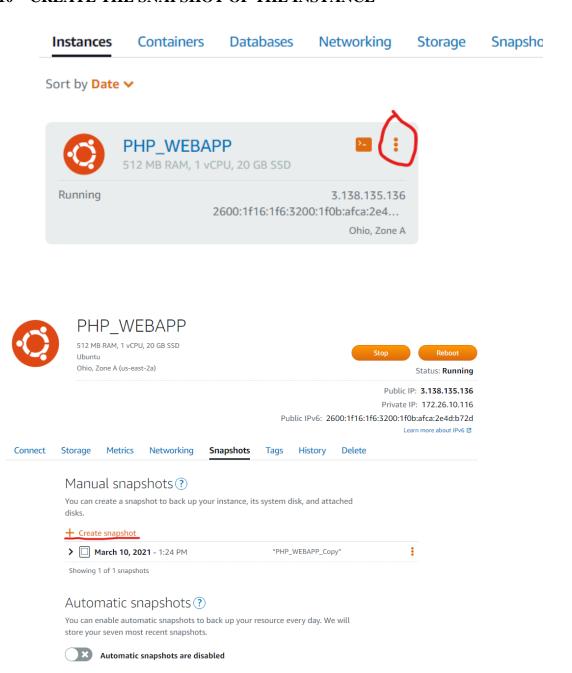


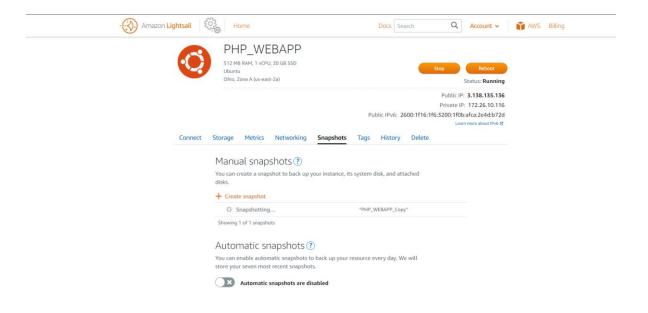
STEP 9 – RUN THE COMMAND docker-compose up -d



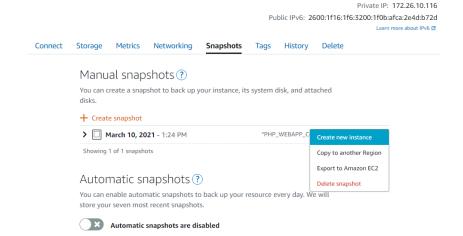


STEP 10 - CREATE THE SNAPSHOT OF THE INSTANCE



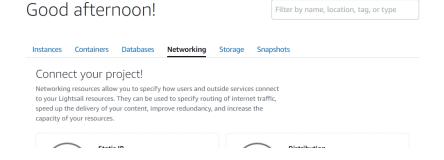


STEP 11 - CREATE THE SECOND INSTANCE



Public IP: 3.138.135.136

STEP 12 - CREATE THE LOAD BALANCER



capacity or your resources.



Static IP

A static IP is a fixed, public IP address that you can attach to an instance.

Learn more about static IPs 🗹

Create static IP



Distribution

A content delivery network (CDN) distribution speeds up the delivery of your content to your users around the world.

Learn more about distributions 🗷

Create distribution



Load balancer

A load balancer adds redundancy and increases capacity by distributing traffic to multiple instances.

Learn more about load balancers 🗷



DNS zone

A domain name system (DNS) zone defines subdomains for your domain, and routes traffic to your resources.

Learn more about DNS zones 🗷

Create DNS zone



Identify your load balancer

Your Lightsail load balancers must all have unique names.

LoadBalancer1

TAGGING OPTIONS

Use tags to filter and organize your resources in the Lightsail console. Key-value tags can also be used to organize your billing, and to control access to your resources.

Learn more about tagging. 2

Key-only tags ?

+ Add key-only tags

Key-value tags ?

+ Add key-value tag

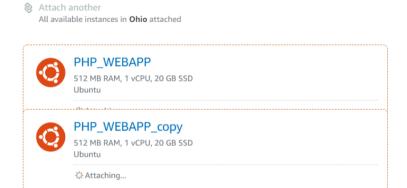
This load balancer will cost 18 USD per month.

Create load balancer

Your use of AWS services is subject to the AWS Customer Agreement 🗷 .

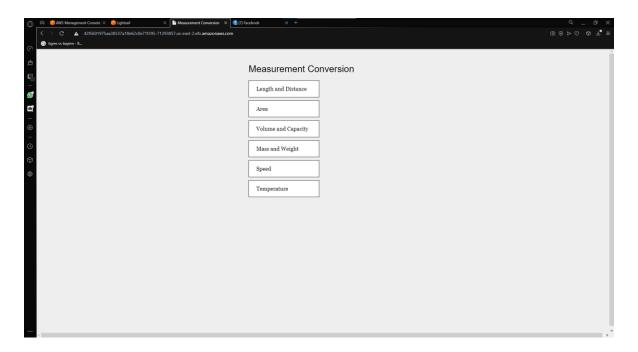
Target instances

Traffic will be evenly distributed to the following instances:



Your instances will receive traffic from this load balancer on port 80
Learn more about load balancing
Learn more about load balanc

STEP 12 - VERIFY



Open both of the instances console, log in as root and run the command top

