ICT & Infra S3 Monitoring & Supporting Services, week 5

Class:	*CB01*
Student number:	4961854
Student name:	*Heiko Morales*

Introduction

In this practice I am going to create a load balancer with the nginx software. This load balancer will distribute the workload between two different web servers. In addition, it will also act as a proxy manager and host the SSL certificates.

Assignment. Nginx load balancer

First we will connect to the machine and install nginx

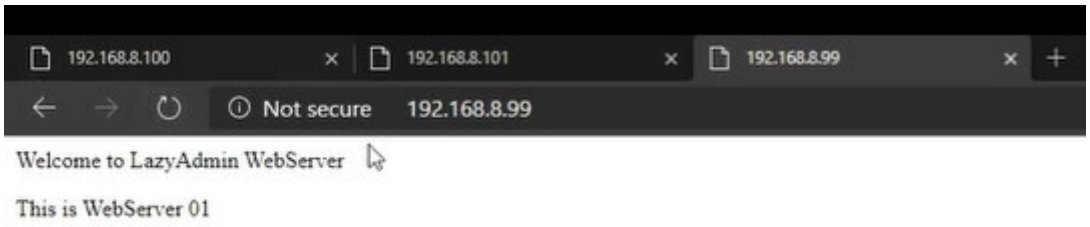
```
sudo apt-get install epel-release -y
```

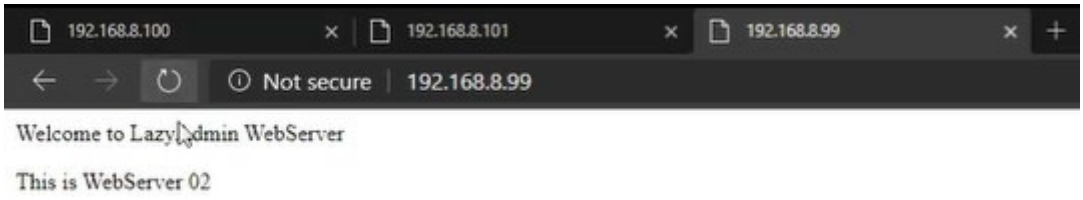
```
sudo apt-get install nginx -y
```

Once installed we must go to the configuration file in "/etc/nginx/nginx.conf".

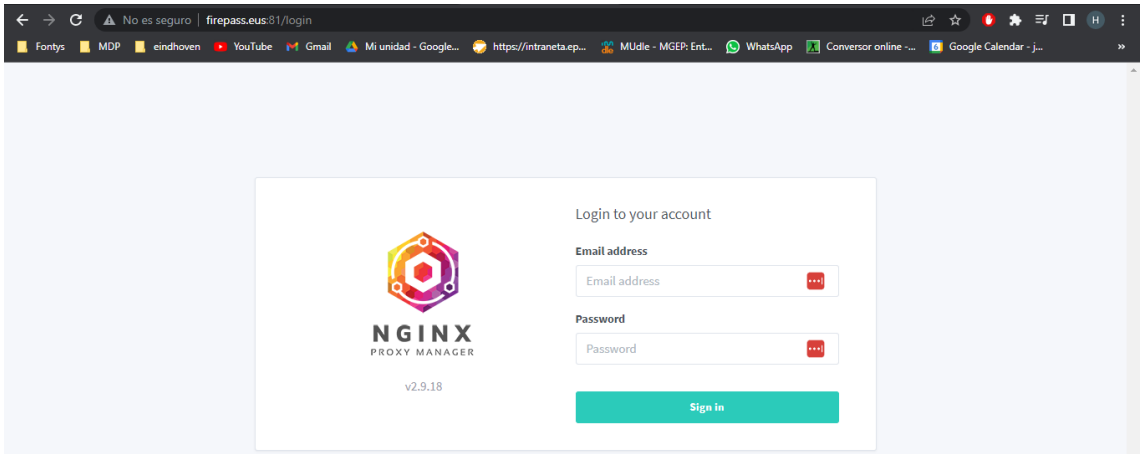
in the server section we put the servers that are going to need port 80 redirection to port 433 to have SSL encryption adding https instead of http. On the other hand, in the upstream section we will add the servers that will share the load.

```
server{
        listen 80 default_server;
        listen [::]:80 default_server;
        server_name firepassLB;
        root /usr/share/nginx/html;

        #Load configu ration files for the default server block.
        include /etc/nginx/de fault . d/* .conf;
        Location/{

        }
        error_page 404 /404.html;

        location = /40x.html {
        proxy_pass https://192.168.8.100
        proxy_pass https://192.168.8.101
        proxy_pass https://x.x.x.x
        }

        error_page 500 502 503 504 /50x.html;
        location = /50x.html {

        }
}

upstream backend {
        server 192.168.8.100;
        server 192.168.8.101;
}
```

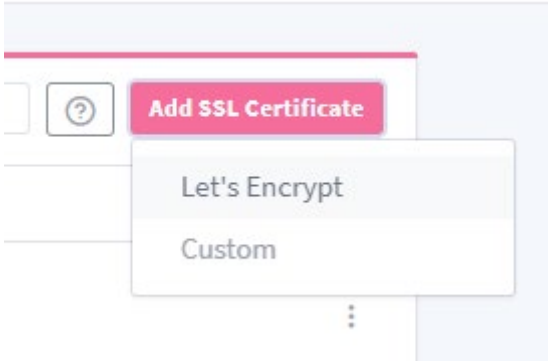




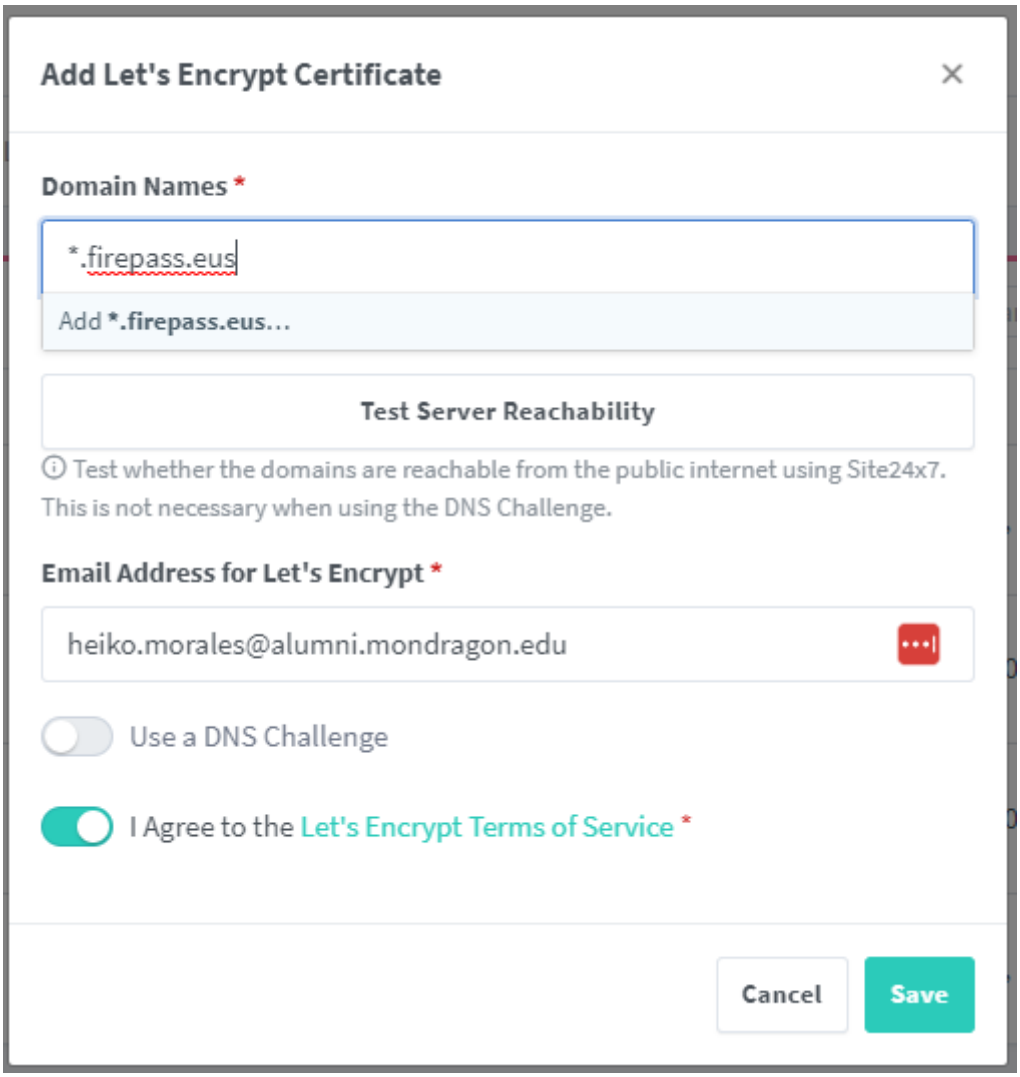
Once everything is done, we will be able to see that in the browser we have the two different servers running. But there is no HTTPS. This is because we haven't configured it yet. By accessing port 81, a UI will be displayed to facilitate the task.



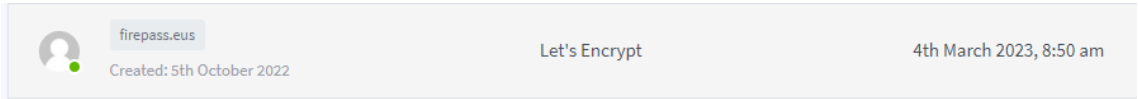
Once inside we will go to the SSL certificates section and in the add button we will select the first one.



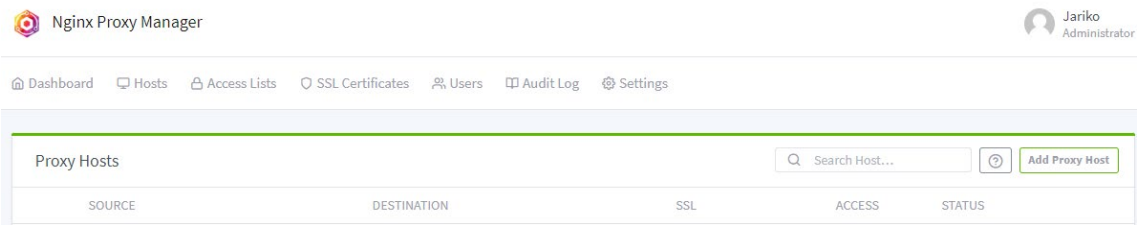
we will add the data and hit save



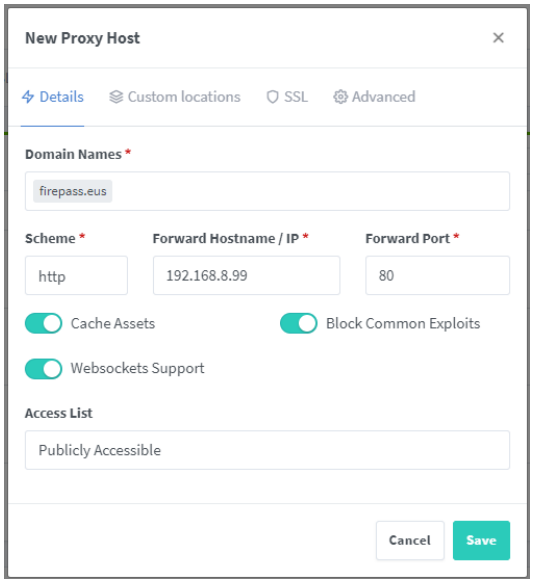
a new record will be created for us



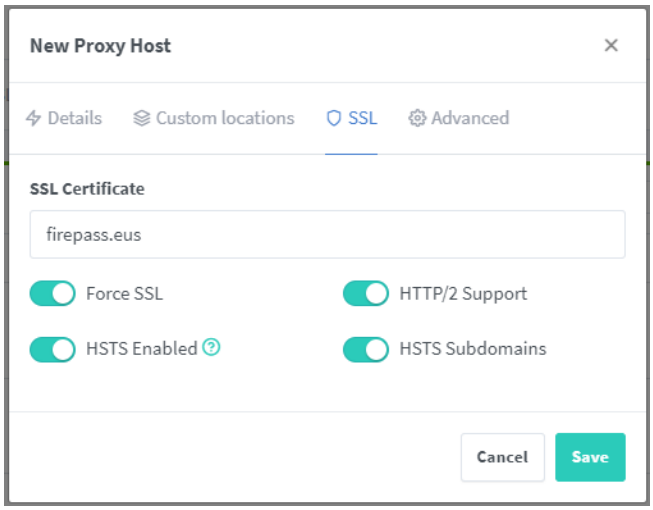
later we go to the proxy section and click on add proxy host.



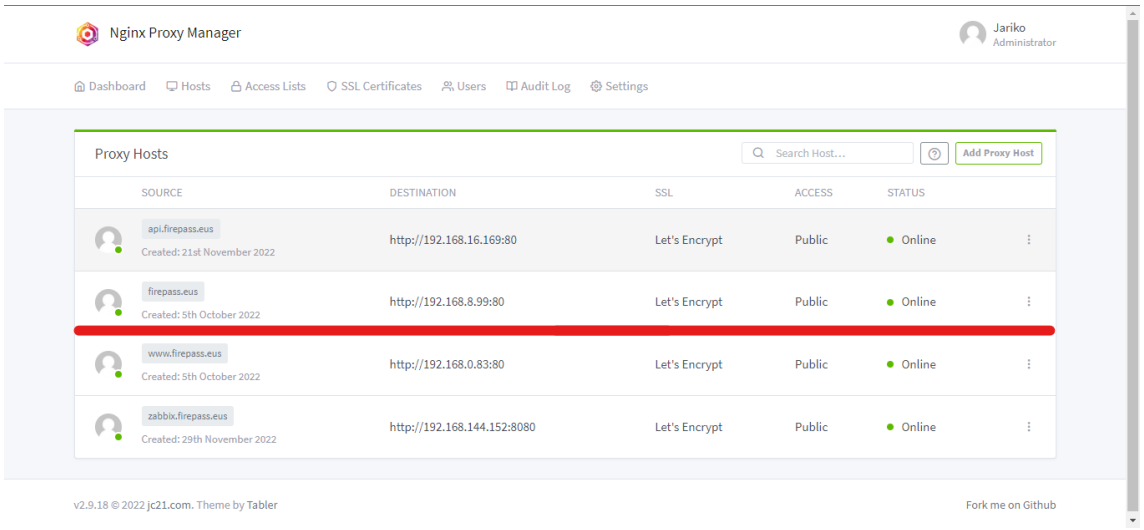
We will fill in the form and click on SSL.



in SSL we will add the previously requested certificate and save.



And we will see how the new registry has been created.



if we check it, we can see that it works perfectly