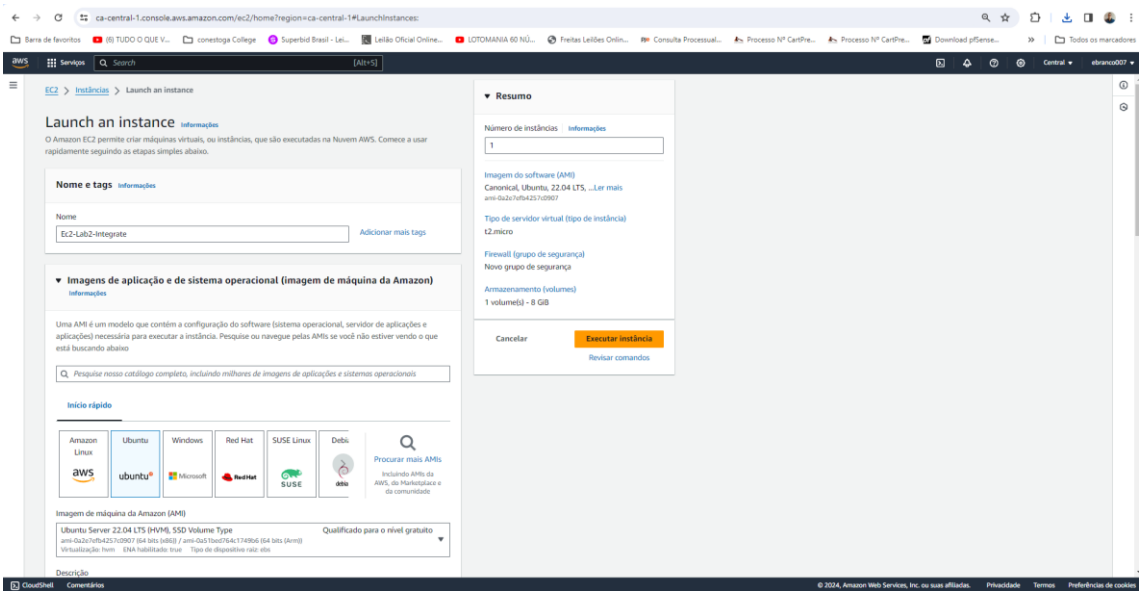
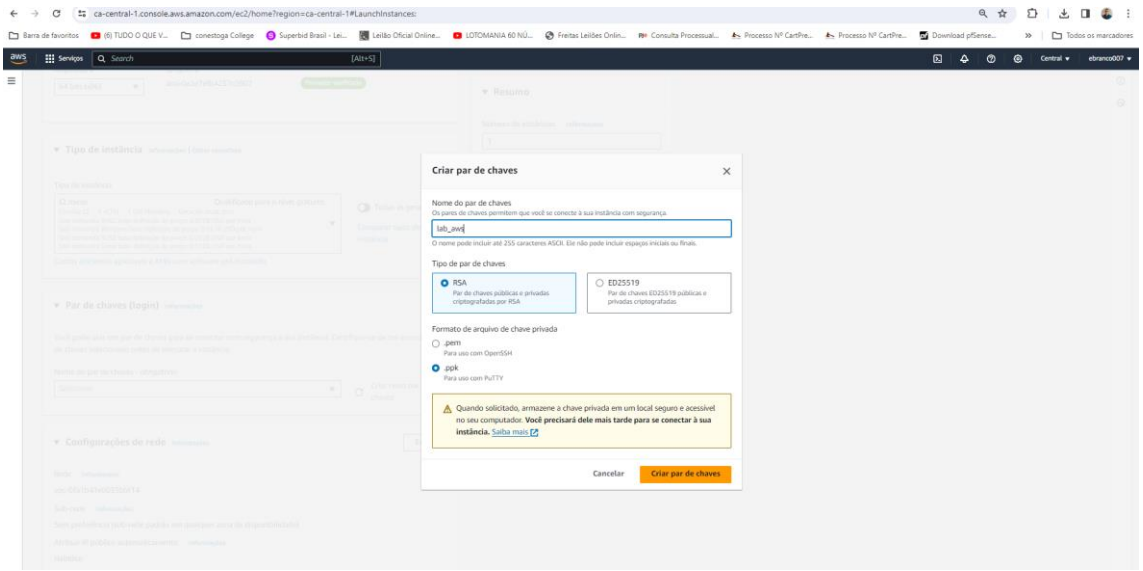
LAB 2- create Linux Machine on AWS

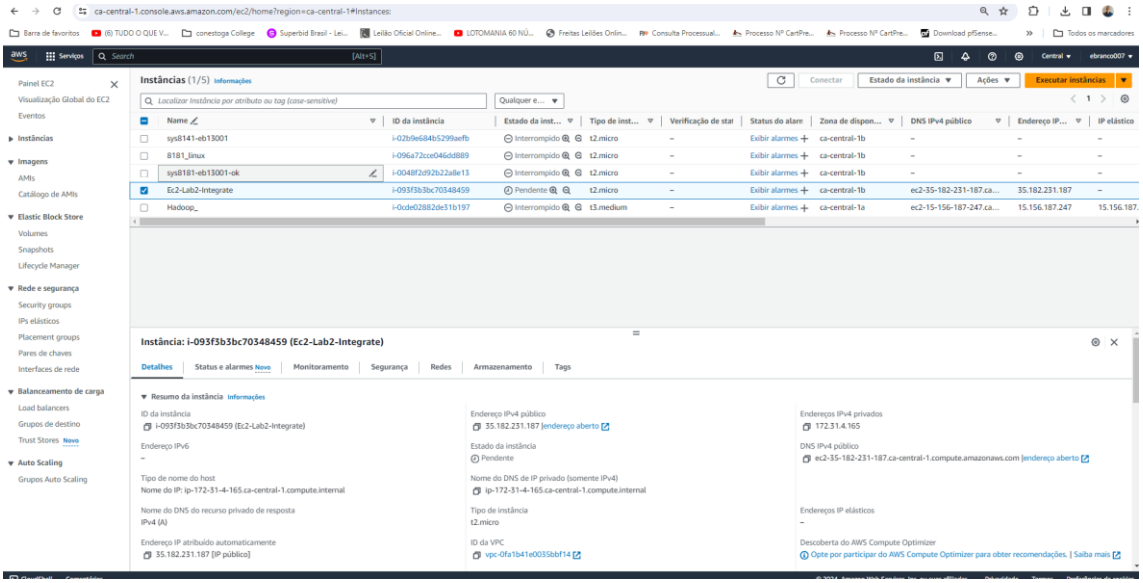
I have created instances and security groups already done, permissions SSH / HTTP and HTTPS.



Generate Key;

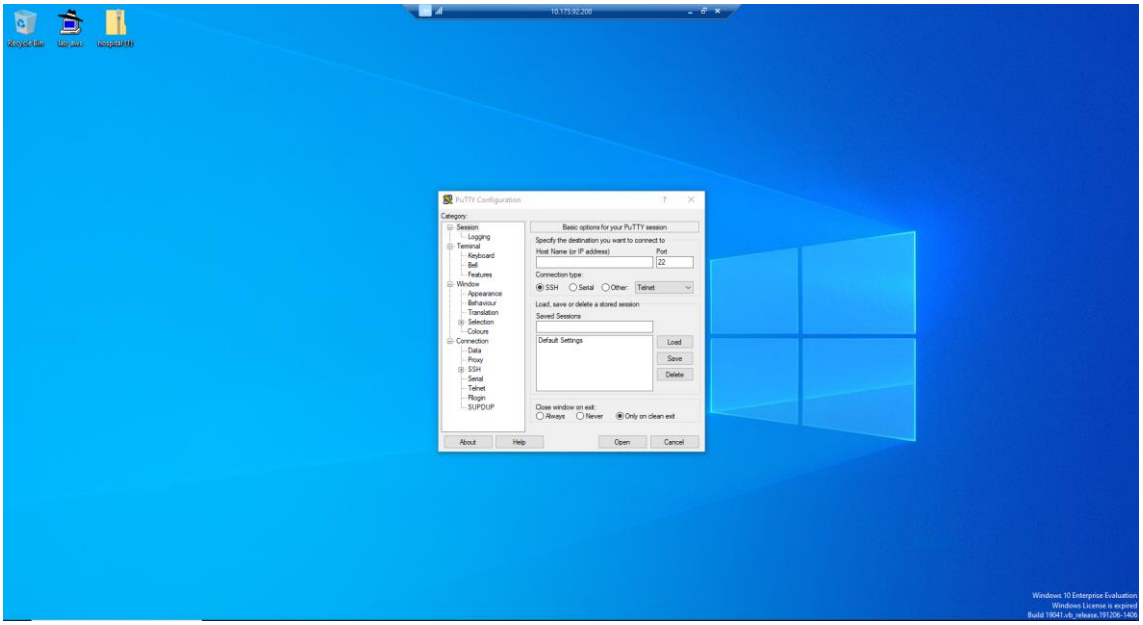


Instance running...

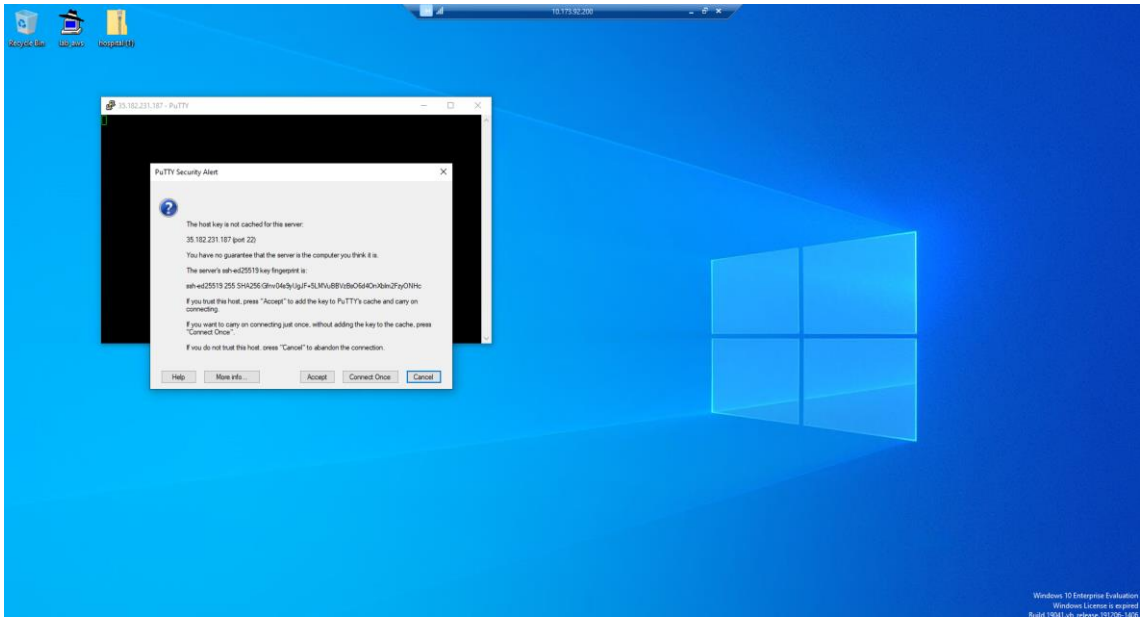


Task 2

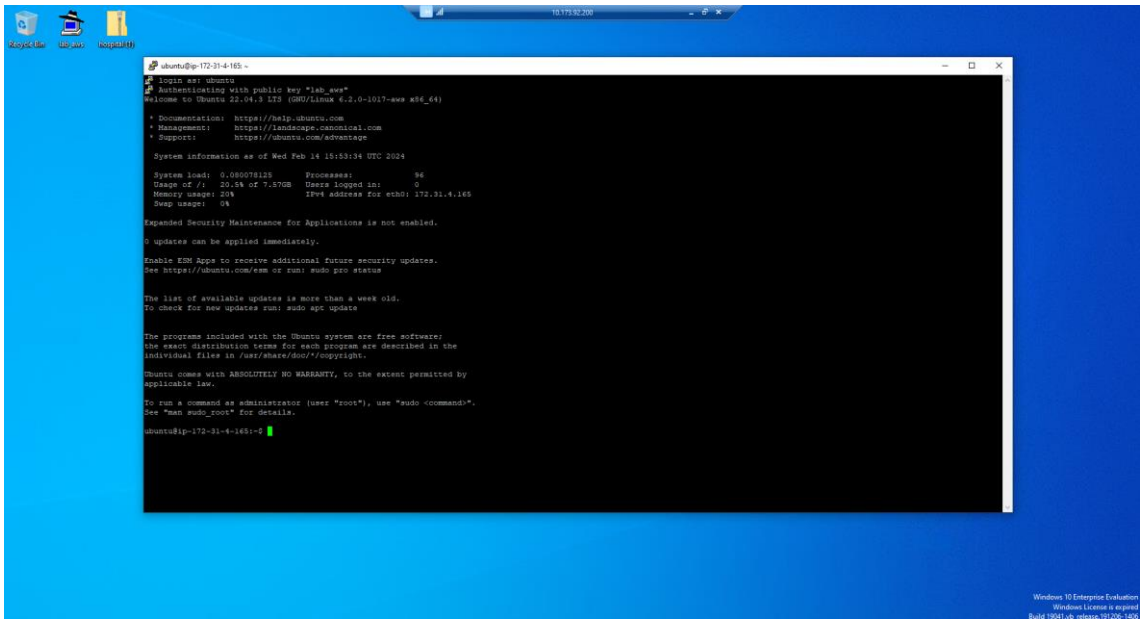
Accessins VSPhere by RDP. Its my subnet.

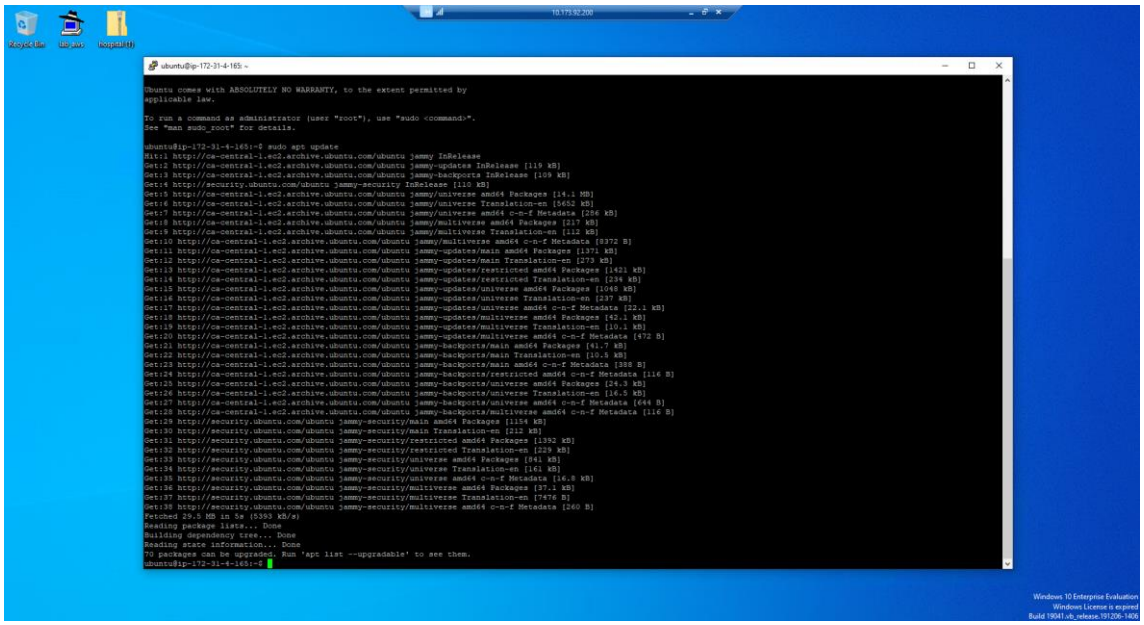


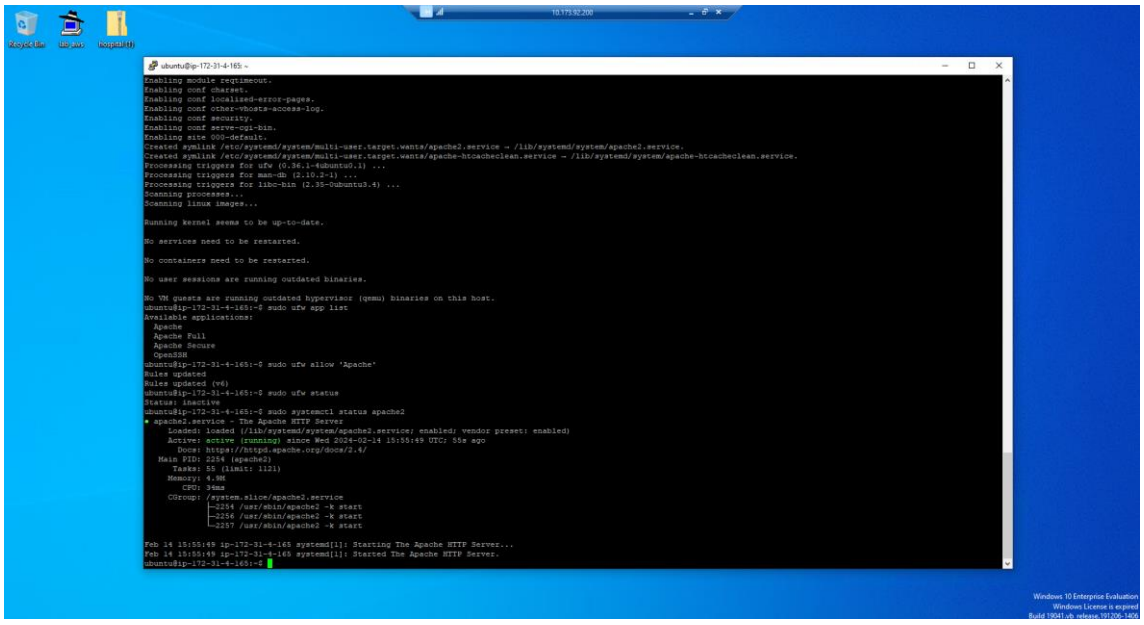
Connecting on Instance Ec2.

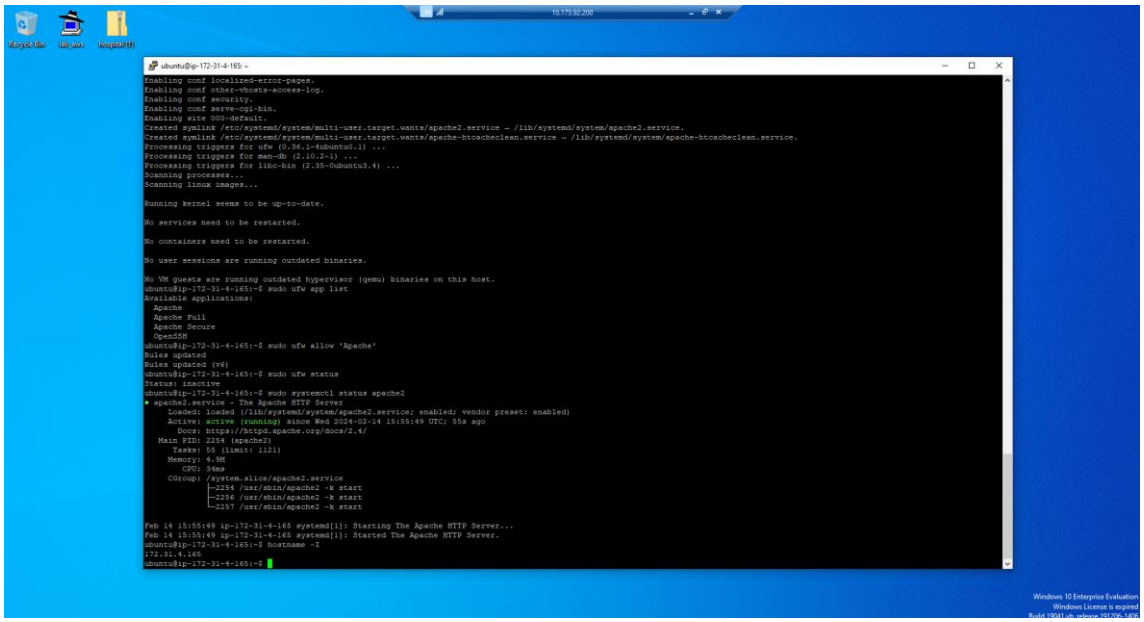


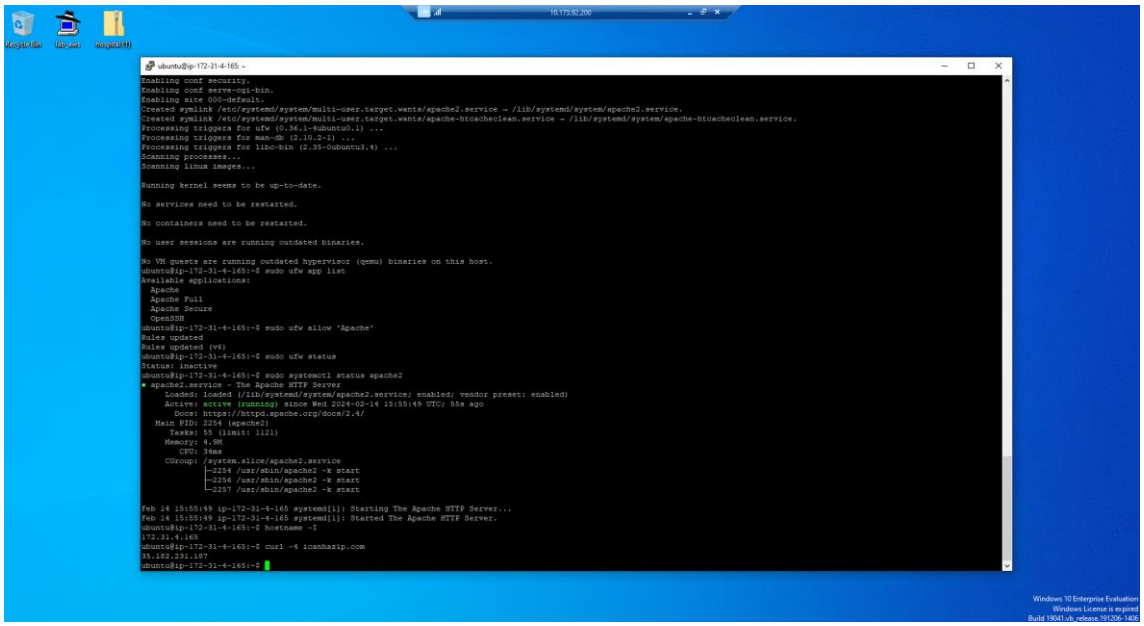
In console




ubuntu@ip-172-31-4-165: ~
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-4-165:~$ sudo apt update
Hit:1 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1371 kB]
Get:12 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [273 kB]
Get:13 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1421 kB]
Get:14 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [234 kB]
Get:15 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1045 kB]
Get:16 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [237 kB]
Get:17 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:18 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]
Get:19 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]
Get:20 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:21 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:22 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:23 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:26 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:27 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:28 http://ca-central-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1154 kB]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [212 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1392 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [229 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [941 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [161 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 29.5 MB in 5s (5393 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
70 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-4-165:~$
Windows 10 Enterprise Evaluation
Windows License is expired
Build 19041.vb_release.191206-1406


ubuntu@ip-172-31-4-165: ~
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-165:~$ sudo ufw app list
Available applications:
Apache
Apache Full
Apache Secure
OpenSSH
ubuntu@ip-172-31-4-165:~$ sudo ufw allow 'Apache'
Rules updated
Rules updated (v6)
ubuntu@ip-172-31-4-165:~$ sudo ufw status
Status: inactive
ubuntu@ip-172-31-4-165:~$ sudo systemctl status apache2
apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2024-02-14 15:55:49 UTC; 55s ago
Docs: https://httpd.apache.org/docs/2.4/
Main PID: 2254 (apache2)
Tasks: 55 (limit: 1121)
Memory: 4.9M
CPU: 36ms
CGroup: /system.slice/apache2.service
├─2254 /usr/sbin/apache2 -k start
├─2256 /usr/sbin/apache2 -k start
└─2257 /usr/sbin/apache2 -k start
Feb 14 15:55:48 ip-172-31-4-165 systemd[1]: Starting The Apache HTTP Server...
Feb 14 15:55:49 ip-172-31-4-165 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-172-31-4-165:~$
Windows 10 Enterprise Evaluation
Windows License is expired
Build 19041.vb_release.191206-1406


10.173.92.200
ubuntu@ip-172-31-4-165: ~
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-165:~$ sudo ufw app list
Available applications:
Apache
Apache Full
Apache Secure
OpenSSH
ubuntu@ip-172-31-4-165:~$ sudo ufw allow 'Apache'
Rules updated
Rules updated (v6)
ubuntu@ip-172-31-4-165:~$ sudo ufw status
Status: inactive
ubuntu@ip-172-31-4-165:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2024-02-14 15:55:49 UTC; 55s ago
Docs: https://httpd.apache.org/docs/2.4/
Main PID: 2254 (apache2)
Tasks: 55 (limit: 1121)
Memory: 4.9M
CPU: 34ms
CGroup: /system.slice/apache2.service
├─2254 /usr/sbin/apache2 -k start
├─2256 /usr/sbin/apache2 -k start
└─2257 /usr/sbin/apache2 -k start
Feb 14 15:55:49 ip-172-31-4-165 systemd[1]: Starting The Apache HTTP Server...
Feb 14 15:55:49 ip-172-31-4-165 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-172-31-4-165:~$ hostname -I
172.31.4.165
ubuntu@ip-172-31-4-165:~$
Windows 10 Enterprise Evaluation
Windows License is expired


10.173.92.200
ubuntu@ip-172-31-4-165: ~
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
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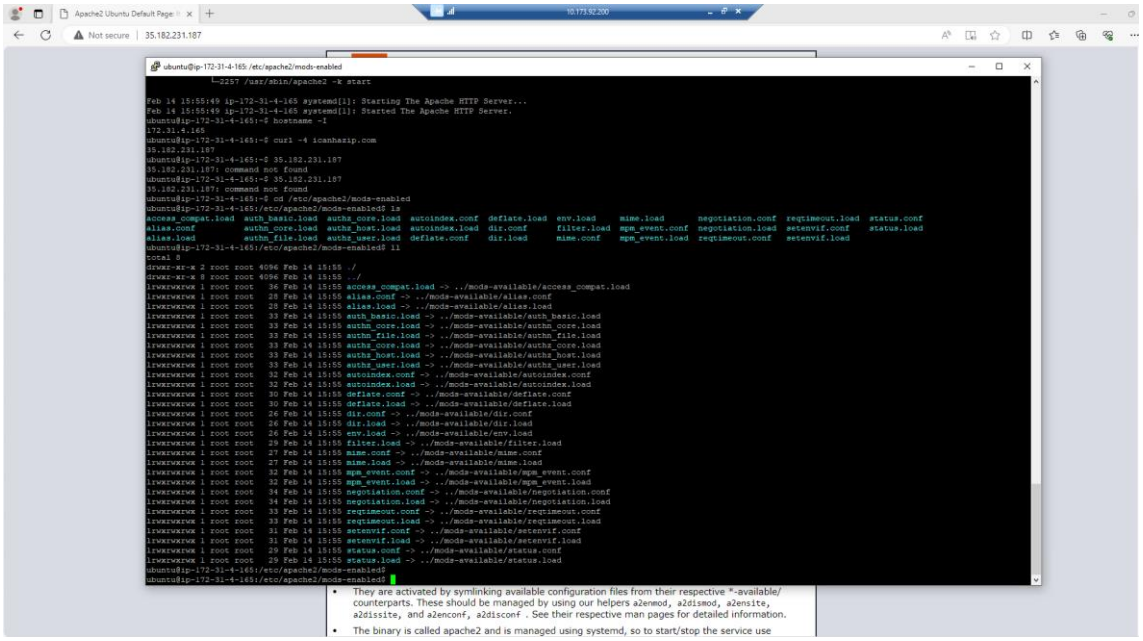
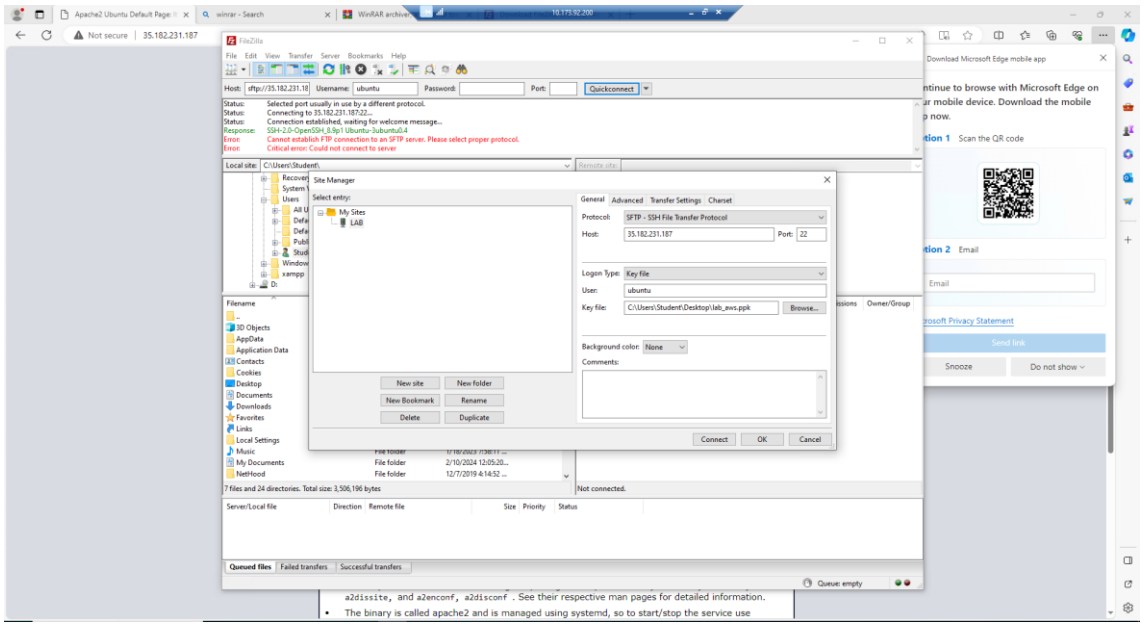
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-165:~$ sudo ufw app list
Available applications:
Apache
Apache Full
Apache Secure
OpenSSH
ubuntu@ip-172-31-4-165:~$ sudo ufw allow 'Apache'
Rules updated
Rules updated (v6)
ubuntu@ip-172-31-4-165:~$ sudo ufw status
Status: inactive
ubuntu@ip-172-31-4-165:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2024-02-14 15:55:49 UTC; 55s ago
Docs: https://httpd.apache.org/docs/2.4/
Main PID: 2254 (apache2)
Tasks: 55 (limit: 1121)
Memory: 4.9M
CPU: 34ms
CGroup: /system.slice/apache2.service
├─2254 /usr/sbin/apache2 -k start
├─2256 /usr/sbin/apache2 -k start
└─2257 /usr/sbin/apache2 -k start
Feb 14 15:55:49 ip-172-31-4-165 systemd[1]: Starting The Apache HTTP Server...
Feb 14 15:55:49 ip-172-31-4-165 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-172-31-4-165:~$ hostname -I
172.31.4.165
ubuntu@ip-172-31-4-165:~$ curl -4 icanhazip.com
35.182.231.187
ubuntu@ip-172-31-4-165:~$
Windows 10 Enterprise Evaluation
Windows License is expired

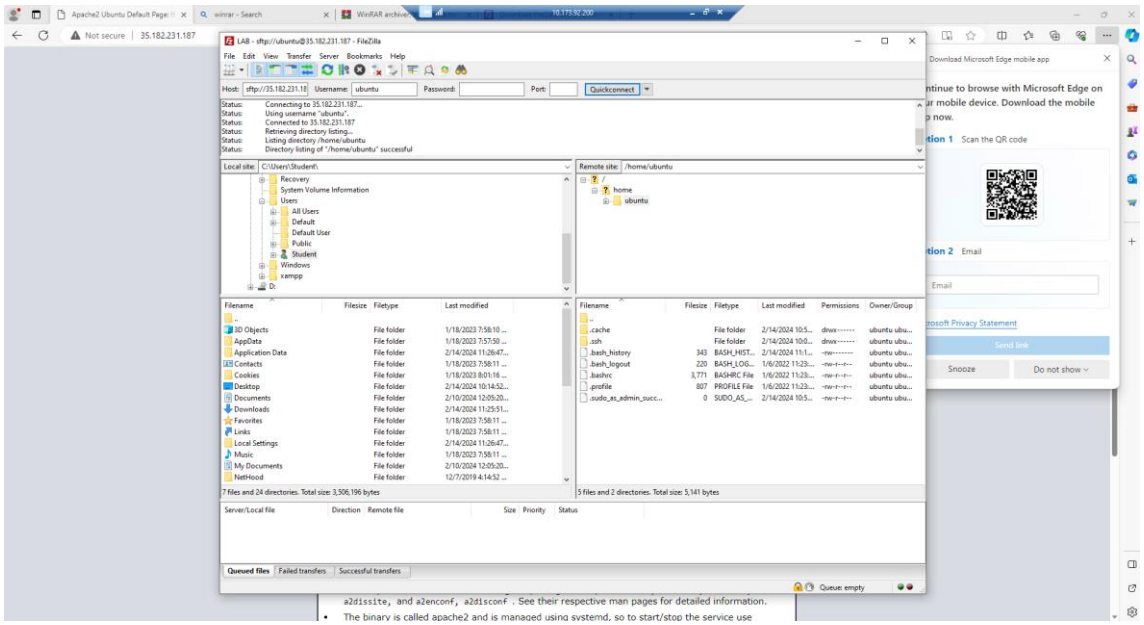
In this step, I'm able to see apache2 working in my ec2-instance. I have allow permission to security group to access Port 80 and 443. Its reason to able to access.

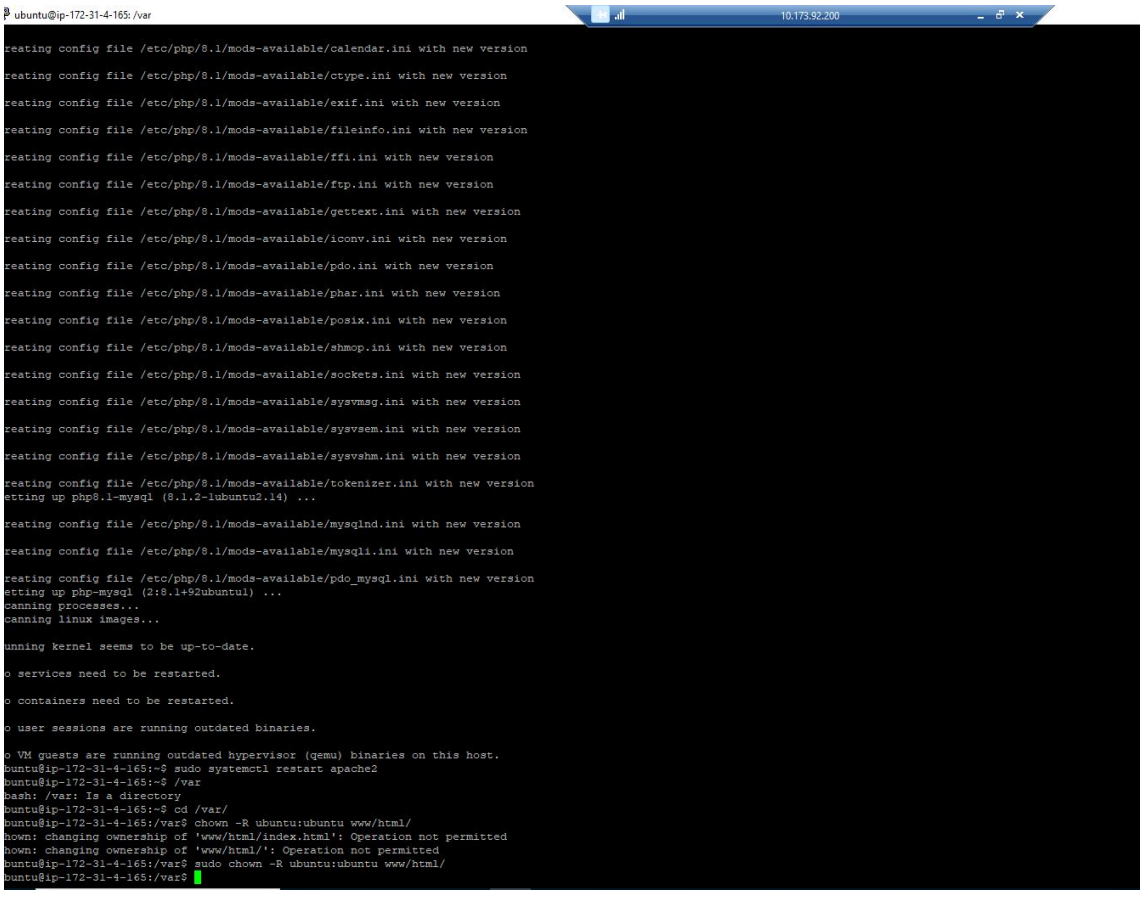


Q5 - So, we need edit file, including commands. But if no package is installed when running the line, it crashes., so it's a reason to install php-mysql to work instructions in file configurations. After that we need restart the service because, the file need to reading command again for validation, and update service.

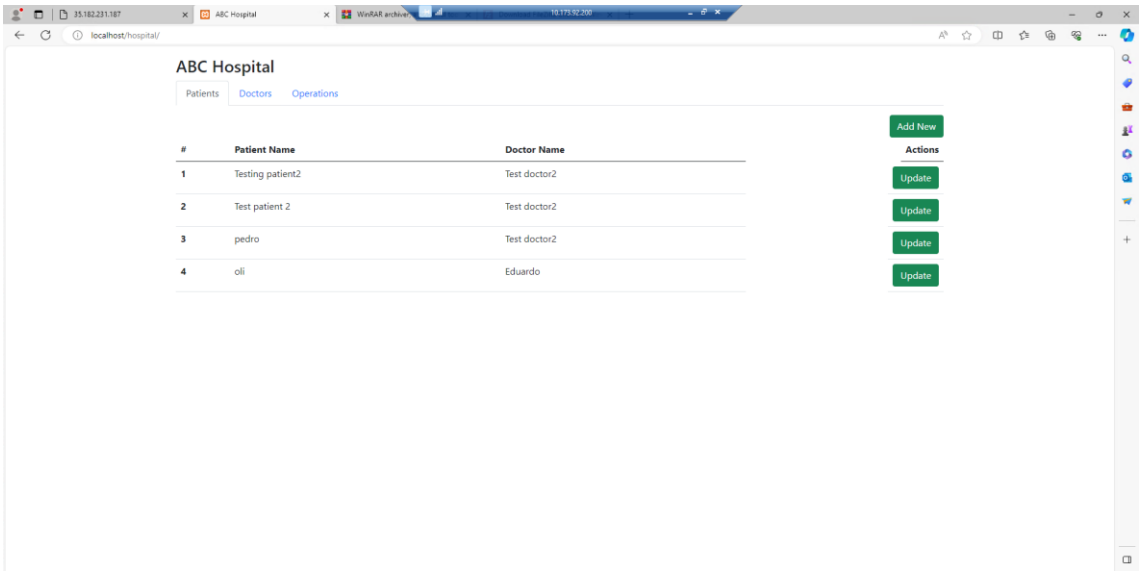
Apache2 Ubuntu Default Page
Not secure
35.182.231.187
Apache2 Default Page
Ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled
| `-- *.conf
|-- sites-enabled
| `-- *.conf
apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
They are activated by symlinking available configuration files from their respective *-available/ counterparts. These should be managed by using our helpers a2enmod, a2dismod, a2ensite, a2dissite, and a2enconf, a2disconf . See their respective man pages for detailed information.
The binary is called apache2 and is managed using systemd, so to start/stop the service use

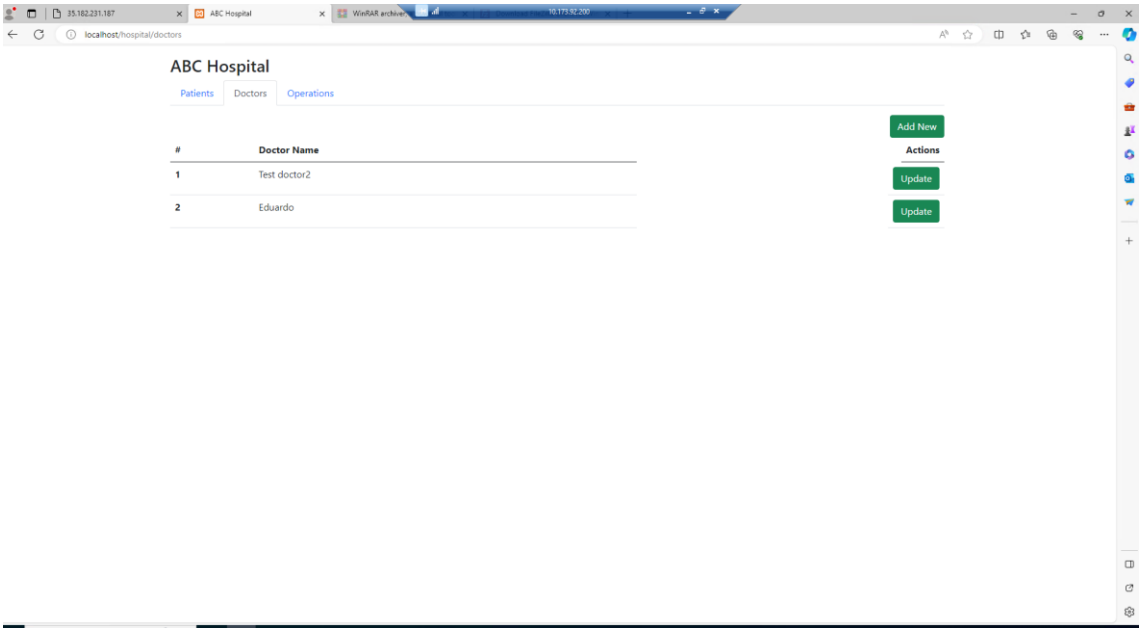

Apache2 Ubuntu Default Page
winrar - Search
WinRAR archiver
Not secure
35.182.231.187
FileZilla
Site Manager
My Sites
LAB
Protocol: SFTP - SSH File Transfer Protocol
Host: 35.182.231.187
Port: 22
Logon Type: Key file
User: ubuntu
Key file: C:\Users\Student\Desktop\lab_aws.ppk
Connect
OK
Cancel
Download Microsoft Edge mobile app
Scan the QR code
Email
Snooze
Do not show
a2dissite, and a2enconf, a2disconf . See their respective man pages for detailed information.
The binary is called apache2 and is managed using systemd, so to start/stop the service use

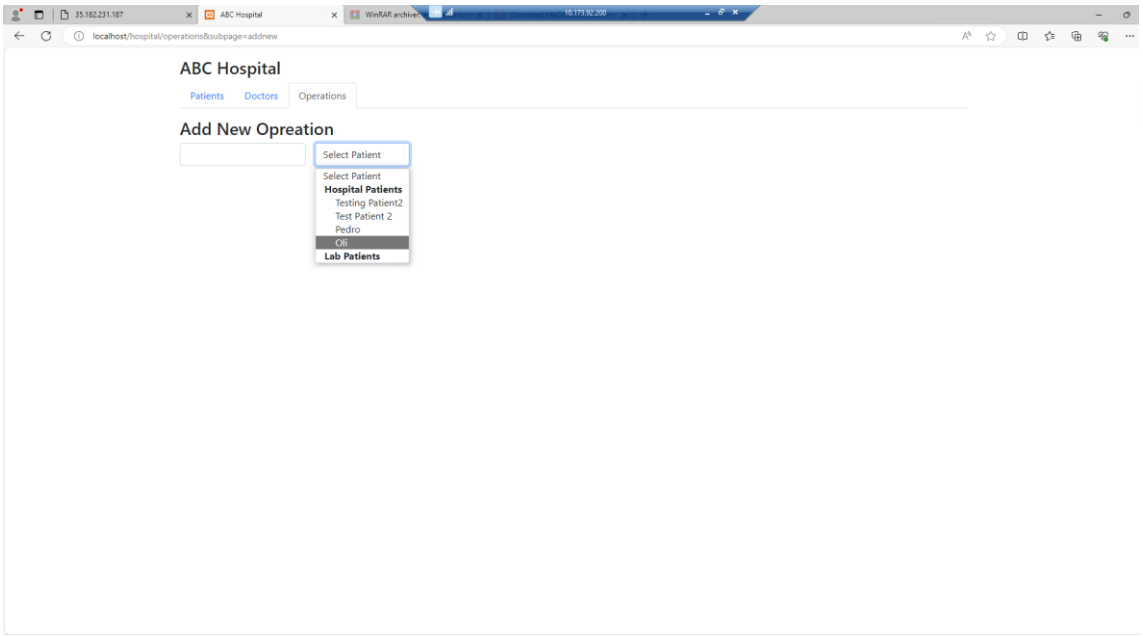




In this case, the string connects to the application to DB. Its reason to see applications working. In the first steps on assignment 1, I got errors, because no have this resource for making query connections databases.


ABC Hospital
Patients
Doctors
Operations
Add New
Patient Name Doctor Name Actions
1 Testing patient2 Test doctor2 Update
2 Test patient 2 Test doctor2 Update
3 pedro Test doctor2 Update
4 oli Eduardo Update


ABC Hospital
Patients
Doctors
Operations
Add New
Doctor Name Actions
1 Test doctor2 Update
2 Eduardo Update


35.182.231.187
ABC Hospital
localhost/hospital/operations&subpage=addnew
ABC Hospital
Patients
Doctors
Operations
Add New Opreation
Select Patient
Select Patient
Hospital Patients
Testing Patient2
Test Patient 2
Pedro
Oli
Lab Patients