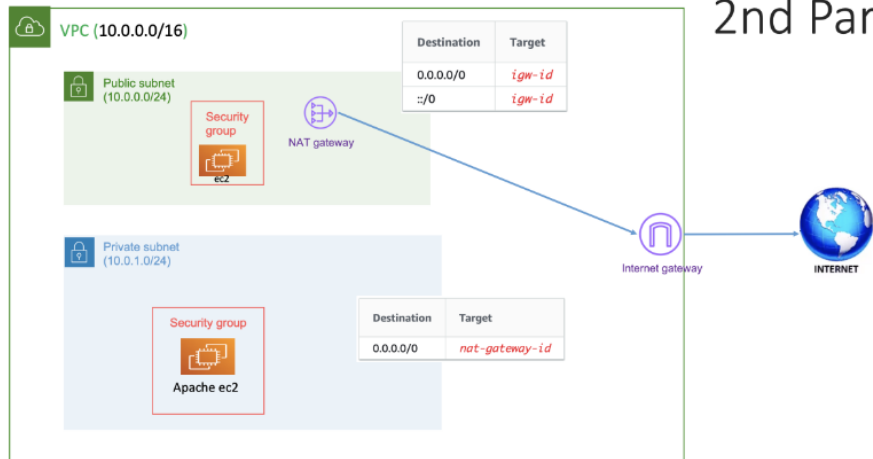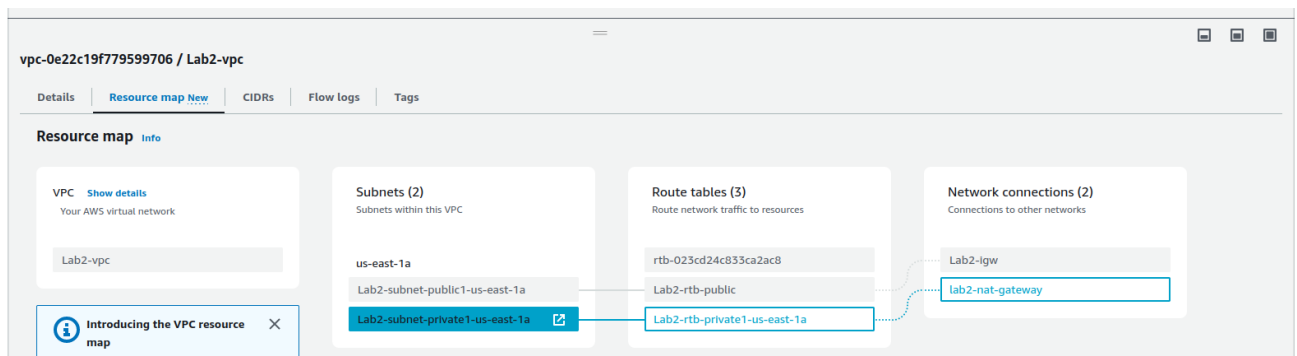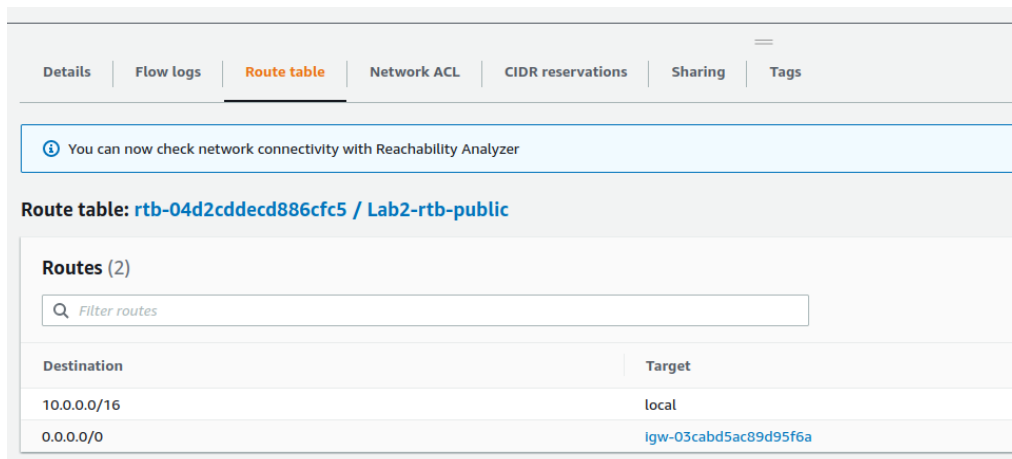By Sabreen Salama

LAB2

Required:
Screenshot from the instance page demonstrate that the instance is private and a screenshot from the logs of the instance demonstrate the apache2 Is installed
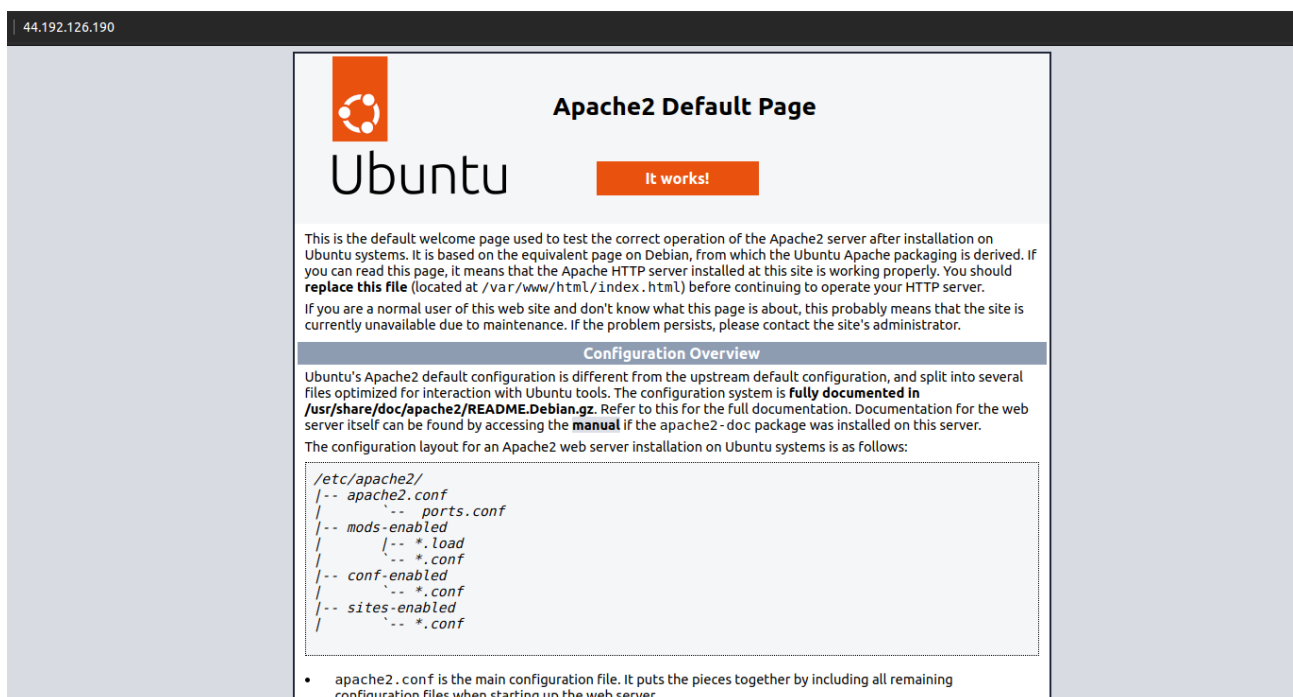
The VPC

Route table of the public subnet

Installing the apache on the public machine

User data - *optional* Info
Enter user data in the field.

```
#!/bin/bash
apt-get update -y
apt-get install apache2 -y
systemctl start apache2
systemctl enable apache2
```

44.192.126.190

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.

Route table of the private subnet

ⓘ You can now check network connectivity with Reachability Analyzer

Route table: rtb-089293c2097f8aa25 / Lab2-rtb-private1-us-east-1a

Routes (2)

Q Filter routes

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	nat-0b5e5ac825663851c

Get system log Info

When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.

System log

Review system log for instance i-0b36a419a4b75de16 as of Sun Jun 04 2023 23:36:40 GMT+0300 (Eastern European Summer Time)

[Refresh] [Copy log] [Download]

```
[   76.071790] cloud-init[1194]: Preparing to unpack .../11-bzip2_1.0.8-5build1_amd64.deb ...
[   76.086885] cloud-init[1194]: Unpacking bzip2 (1.0.8-5build1) ...
[   76.144499] cloud-init[1194]: Selecting previously unselected package ssl-cert.
[   76.158745] cloud-init[1194]: Preparing to unpack .../12-ssl-cert_1.1.2_all.deb ...
[   76.176572] cloud-init[1194]: Unpacking ssl-cert (1.1.2) ...
[   76.242535] cloud-init[1194]: Setting up libapr1:amd64 (1.7.0-8ubuntu0.22.04.1) ...
[   76.266981] cloud-init[1194]: Setting up bzip2 (1.0.8-5build1) ...
[   76.286705] cloud-init[1194]: Setting up ssl-cert (1.1.2) ...
[   76.777211] cloud-init[1194]: Setting up liblua5.3-0:amd64 (5.3.6-1build1) ...
[   76.803152] cloud-init[1194]: Setting up apache2-data (2.4.52-1ubuntu4.5) ...
[   76.830052] cloud-init[1194]: Setting up mailcap (3.70+nmu1ubuntu1) ...
[   76.914073] cloud-init[1194]: Setting up libaprutil1:amd64 (1.6.1-5ubuntu4.22.04.1) ...
[   76.938531] cloud-init[1194]: Setting up mime-support (3.66) ...
[   77.006823] cloud-init[1194]: Setting up libaprutil1-ldap:amd64 (1.6.1-5ubuntu4.22.04.1) ...
[   77.077023] cloud-init[1194]: Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.1-5ubuntu4.22.04.1) ...
[   77.137672] cloud-init[1194]: Setting up apache2-utils (2.4.52-1ubuntu4.5) ...
[   77.166497] cloud-init[1194]: Setting up apache2-bin (2.4.52-1ubuntu4.5) ...
[   77.210394] cloud-init[1194]: Setting up apache2 (2.4.52-1ubuntu4.5) ...
[   78.144514] cloud-init[1194]: Enabling module mpm_event.
[   78.202346] cloud-init[1194]: Enabling module authz_core.
```