

```
#-----  
# Lab 5  
# Isaac Huang  
# 23019722  
#-----
```

1. Configure inbound IP on VirtualBox VM

```
PS C:\Users\naush\Dropbox\UWA\_Cloud Computing\Lab\lab3> ssh -p 2222 isaac@127.0.0.1  
The authenticity of host '[127.0.0.1]:2222 ([127.0.0.1]:2222)' can't be established.  
ECDSA key fingerprint is SHA256:iHAOmDy/41sTPejkoZlNC6ZLaSbzLDLn/P5gR7g0vRQ.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '[127.0.0.1]:2222' (ECDSA) to the list of known hosts.  
isaac@127.0.0.1's password:  
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-27-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
8 updates can be applied immediately.  
8 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Your Hardware Enablement Stack (HWE) is supported until April 2025.  
*** System restart required ***  
Last login: Sun Sep 19 14:38:41 2021 from 127.0.0.1  
isaac@isaac-VirtualBox:~$
```

2. Setting up an Application Load Balancer

| Targets | | | | | | | Monitoring | Health checks | Attributes | Tags |
|---|---------------------|---|----------------|---|------|---|-----------------|---------------|---------------|------|
| Registered targets (2) | | | | | | | | | | |
| Q Filter resources by property or value | | | | | | | | | | |
| <input type="checkbox"/> | Instance ID | ▼ | Name | ▼ | Port | ▼ | Zone | ▼ | Health status | |
| <input type="checkbox"/> | i-01879e5972f97356b | | 23019722-lab5 | | 80 | | ap-southeast-2a | | ✔ healthy | |
| <input type="checkbox"/> | i-024987956527c1b0f | | 23019722-lab5b | | 80 | | ap-southeast-2b | | ✔ healthy | |

| <input type="text" value="search : 23019722"/> Add filter | | | |
|--|---------------|------------------------------|--------|
| <input type="checkbox"/> | Name | DNS name | State |
| <input type="checkbox"/> | 23019722-lab5 | 23019722-lab5-1839518689.... | Active |

Availability Zones

subnet-2a20f762 - ap-southeast-2a [↗](#)

IPv4 address: Assigned by AWS

subnet-69a1040f - ap-southeast-2b [↗](#)

IPv4 address: Assigned by AWS

[Edit subnets](#)

Hosted zone


Z1GM30XH4ZPM65

Creation time

September 19, 2021 at 4:11:34 PM UTC+8

Not secure | 3.25.112.87

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ubuntu

INSTANCE A works!

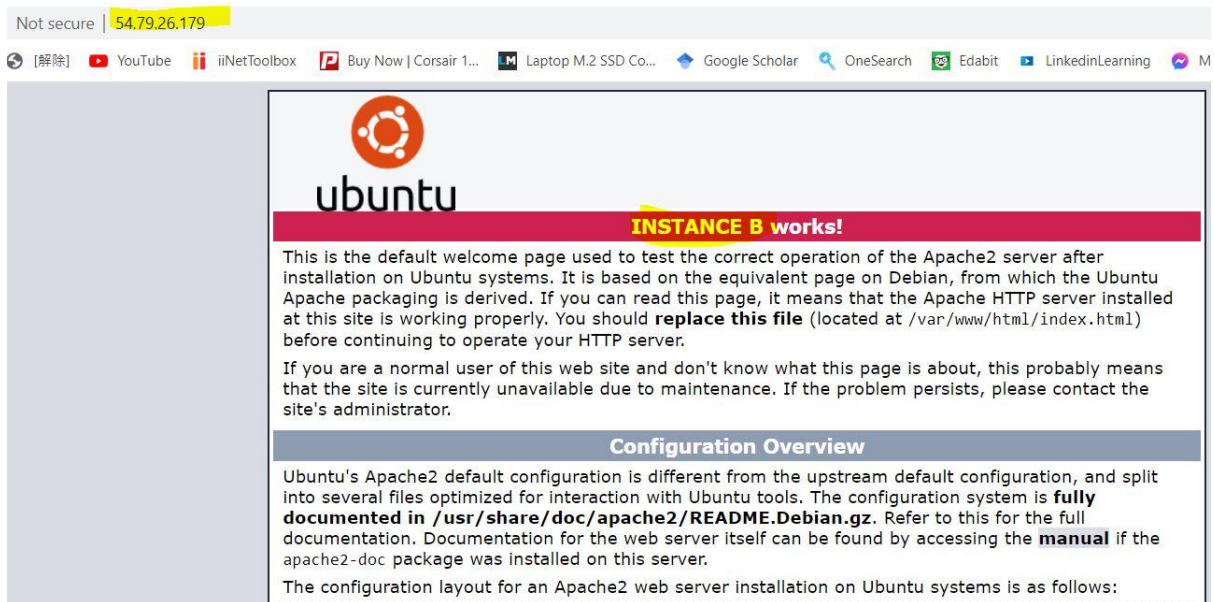
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at 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:



```
import boto3

client = boto3.client('elbv2')

response = client.register_targets(
    TargetGroupArn='arn:aws:elasticloadbalancing:ap-southeast-2:622578507161:targetgroup/23019722-1ab5/d99885d6a1065cb3',
    Targets=[
        {
            'Id': 'i-024987956527c1b0f',
        },
        {
            'Id': 'i-01879e5972f97356b',
        },
    ],
)

response = client.create_listener(
    DefaultActions=[
        {
            'TargetGroupArn': 'arn:aws:elasticloadbalancing:ap-southeast-2:622578507161:targetgroup/23019722-1ab5/d99885d6a1065cb3',
            'Type': 'forward',
        },
    ],
)
```

```
LoadBalancerArn='arn:aws:elasticloadbalancing:ap-southeast-
2:622578507161:loadbalancer/app/23019722-lab5/b7346ff5c9c7c210',
  Port=80,
  Protocol='HTTP',
)
```