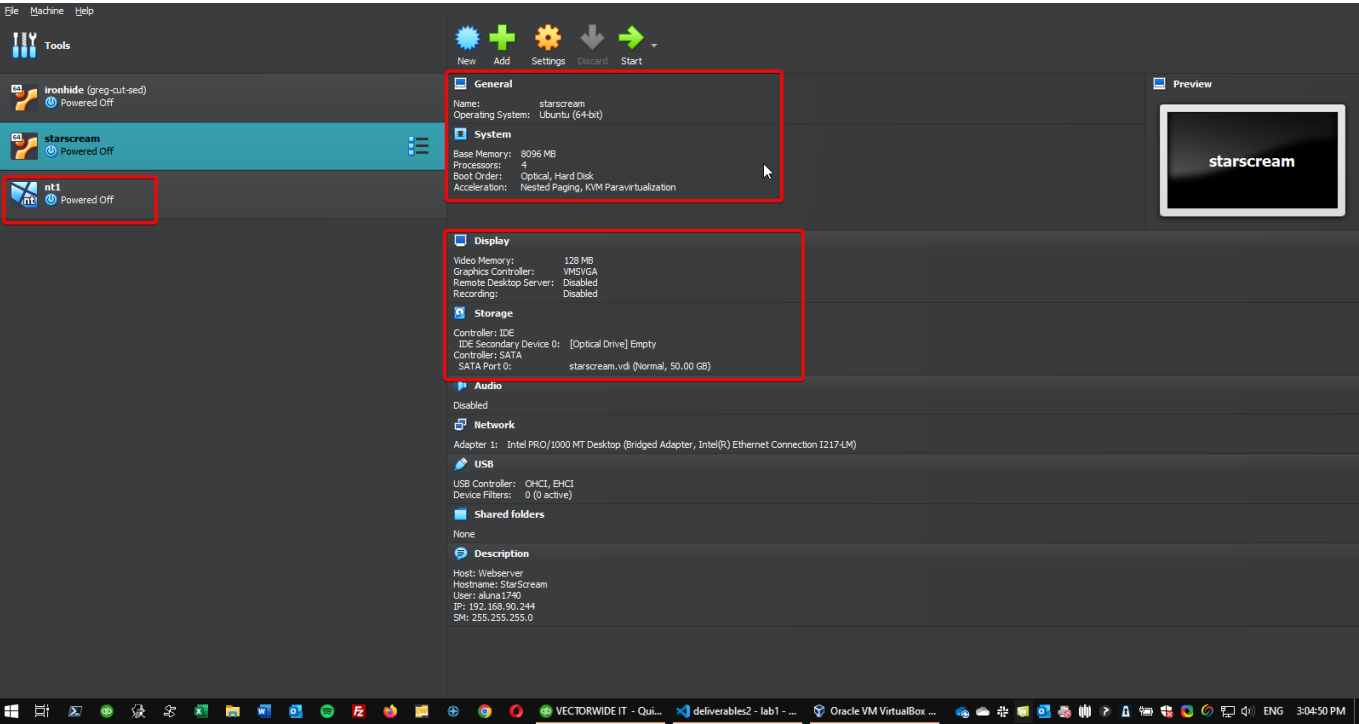# Deliverable 2 Submission

Server Specifications

Ubuntu Login Screen

```
starscream login:
starscream login: webmaster
Password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-102-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Thu Apr 18 07:40:01 PM UTC 2024

  System load:   0.62255859375      Processes:              136
  Usage of /:    29.5% of 23.45GB   Users logged in:        0
  Memory usage:  3%                 IPv4 address for enp0s3: 192.168.90.195
  Swap usage:    0%

Expanded Security Maintenance for Applications is not enabled.

64 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status



The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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.

webmaster@starscream:~$ _
```

Questions

3. **What is the IP address of your Ubuntu Server Virtual Machine?** `192.168.90.195`

4. **How do you enable the Ubuntu Firewall?** `sudo ufw enable`

5. **How do you check if the Ubuntu Firewall is running?** `sudo ufw status`

6. **How do you disable the Ubuntu Firewall?** `sudo ufw disable`

7. **How do you add Apache to the Firewall?** `sudo ufw allow 'Apache'`

8. **What is the command you used to install Apache?** `sudo apt install apache2`

9. **What is the command you use to check if Apache is running?** `sudo systemctl status apache2`

10. **What is the command you use to stop Apache?** `sudo systemctl stop apache2`

11. **What is the command you use to restart Apache?** `sudo systemctl restart apache2`

12. **What is the command used to test Apache configuration?** `sudo apache2ctl configtest`

13. **What is the command used to check the installed version of Apache?** `apache2 -v`

14. **What are the most common commands to troubleshoot Apache errors? Provide a brief description of each command.** `sudo apache2ctl configtest` checks the apache configuration for

syntax errors in the configuration or service. `sudo tail /var/log/apache2/error.log` this command prints the last few entries of the log file. Basically, it says, show me the las few lines that were written to the error log for Apache. `sudo systemctl restart apache2` stops and starts the apache service. Basically it clears processes or stops and reloads the service that is responsible for running apache. It resets state without restarting the whole server.

15. **Which are Apache Log Files, and what are they used for? Provide examples and screenshots.**

`/var/log/apache2/access.log` stores all the requests processed by the server.

`/var/log/apache2/error.log` stores errors generated by the Apache web server.

```
webmaster@starscream:~$ sudo tail /var/log/apache2/error.log
[Thu Apr 18 19:50:40.902917 2024] [mpm_event:notice] [pid 17822:tid 140211903514496] AH00489: Apache
/2.4.52 (Ubuntu) configured -- resuming normal operations
[Thu Apr 18 19:50:40.903043 2024] [core:notice] [pid 17822:tid 140211903514496] AH00094: Command lin
e: '/usr/sbin/apache2'
[Thu Apr 18 20:21:55.703954 2024] [mpm_event:notice] [pid 882:tid 140385015072640] AH00489: Apache/2
.4.52 (Ubuntu) configured -- resuming normal operations
[Thu Apr 18 20:21:55.812362 2024] [core:notice] [pid 882:tid 140385015072640] AH00094: Command line:
'/usr/sbin/apache2'
webmaster@starscream:~$ sudo tail /var/log/apache2/access.log
192.168.90.21 - - [18/Apr/2024:20:50:33 +0000] "GET / HTTP/1.1" 200 3460 "-" "Mozilla/5.0 (X11; Ubun
tu; Linux x86_64; rv:124.0) Gecko/20100101 Firefox/124.0"
192.168.90.21 - - [18/Apr/2024:20:50:33 +0000] "GET /icons/ubuntu-logo.png HTTP/1.1" 200 3607 "http:
//192.168.90.195/" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:124.0) Gecko/20100101 Firefox/124.0"
192.168.90.21 - - [18/Apr/2024:20:50:34 +0000] "GET /favicon.ico HTTP/1.1" 404 492 "http://192.168.9
0.195/" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:124.0) Gecko/20100101 Firefox/124.0"
webmaster@starscream:~$ _
```
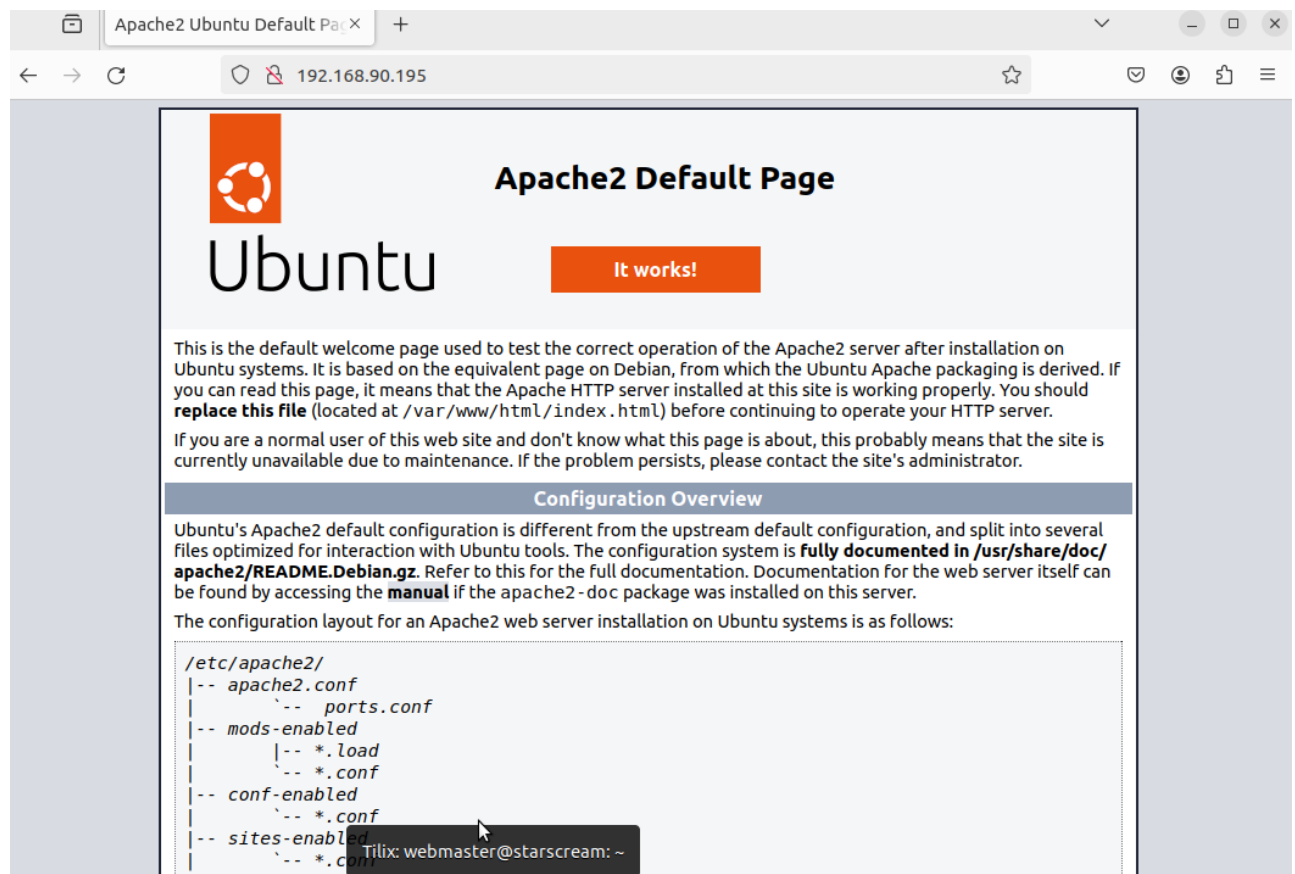

Completed

Transform and Roll out !!!

Decepticons!!!! RETREAT !!!!