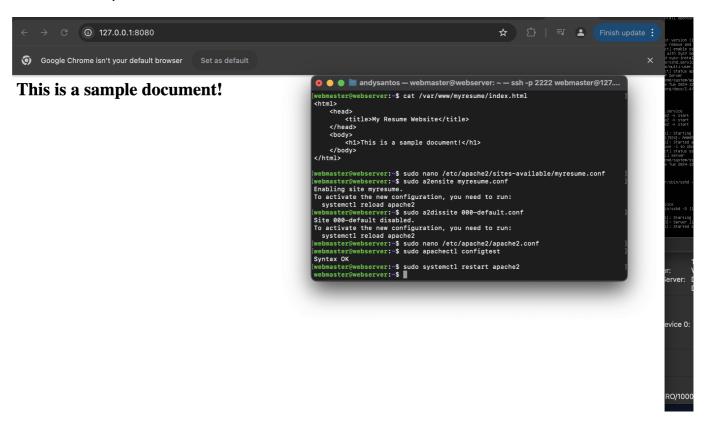
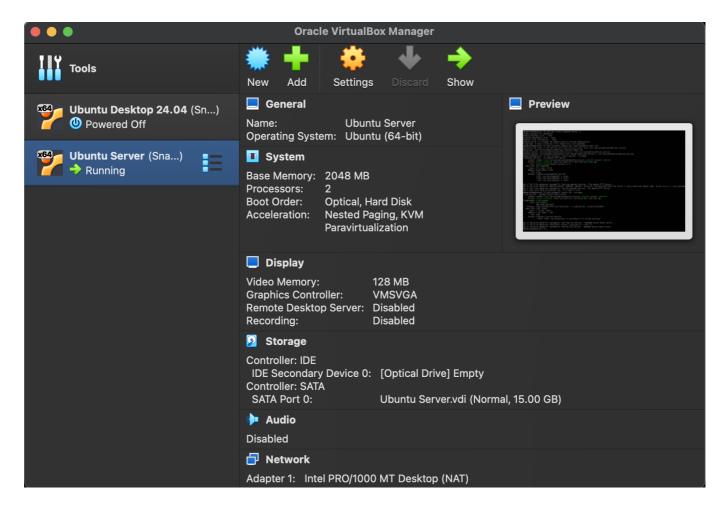
Deliverable 2

Web Samaple Document



Server Specifications



Ubuntu Login Screen

```
Ubuntu Server (Snapsh
Ubuntu 24.04.1 LTS webserver tty1
webserver login: webmaster
Password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-51-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management:
                  https://landscape.canonical.com
* Support:
                  https://ubuntu.com/pro
System information as of Tue Dec 17 04:13:53 AM UTC 2024
 System load:
                          1.26
 Usage of /:
                          44.5% of 9.75GB
 Memory usage:
                          9%
 Swap usage:
 Processes:
 Users logged in:
 IPv4 address for enp0s3: 10.0.2.15
 IPv6 address for enp0s3: fd00::a00:27ff:fe96:c5a8
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
webmaster@webserver:~$ _
```

Questions

- 3. What is the IP address of your Ubuntu Server Virtual Machine? The IP address for my VM is 10.0.2.15.
- 4. How do you enable the Ubuntu Firewall? The command used is sudo ufw enable.
- 5. How do you check if the Ubuntu Firewall is running? The command used is sudo ufw status.
- 6. How do you disable the Ubuntu Firewall? The command used is sudo ufw disable.
- 7. How do you add Apache to the Firewall? The command used is sudo ufw allow 'Apache'.
- 8. What is the command you used to install Apache? The command used is sudo apt install apache2.
- 9. What is the command you use to check if Apache is running? The command used is sudo systematl status apache2 --no-pager.

10. What is the command you use to stop Apache? The command used is sudo systematl stop apache2 --no-pager.

- 11. What is the command you use to restart Apache? The command used is sudo systematl restart apache2 --no-pager.
- 12. What is the command used to test Apache configuration? The command used is sudo apachectl -t or sudo apachectl configuration.
- 13. What is the command used to check the installed version of Apache? The command used is sudo apache? -v.
- 14. What are the most common commands to troubleshoot Apache errors? Provide a brief description of each command.
 - **systemctl:** This command interacts with services managed by *systemd*. In Apache, You can use systemctl to start, stop, restart, or check the status of the apache service.
 - **journalctl:** This command allows you to view logs generated by *systemd* services, including Apache. It's useful for reviewing detailed logs about what's happening with Apache and identifying any issues.
 - **apachectl:** This command is used to manage Apache and check it configuration. When troubleshooting, you can use apachectl configurest to test Apache's configuration for errors before restarting the service.
- 15. Which are Apache Log Files, and what are they used for? Provide examples and screenshots.

Error log files

```
Ubuntu Server (Snapshot 2 Deliverable 2 done) [Running]

webmaster@webserver:"$ ls /var/log/apache2/error.log

webmaster@webserver: "cat /var/log/apache2/error.log

flue bec 17 01:40:18.302294 2024] [impm.event:notice] [id 1596:tid 130444277983104] AH00489: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 01:40:18.303278 2024] [core:notice] [id 1596:tid 130444277983104] AH00494: command line: '/usr/sbin/apache2'

flue bec 17 02:50:37.25937 2024] [impm.event:notice] [id 1596:tid 130444277983104] AH00492: caught SIGHINCH, shutting doun gracefully

flue bec 17 02:50:37.125947 2024] [core:notice] [id 1264:tid 130235753240448] AH00493: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 02:50:37.125947 2024] [core:notice] [id 1264:tid 130235753240448] AH00493: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 02:50:59.566591 2024] [impm.event:notice] [id 2322:tid 137472112052096] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 02:50:59.566591 2024] [impm.event:notice] [id 2322:tid 137472112052096] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 03:30:49.466021 2024] [impm.event:notice] [id 2322:tid 137472112052096] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 03:30:55.576228 2024] [impm.event:notice] [id 332:tid 13049393631104] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 04:20:57.441339 2024] [impm.event:notice] [id 33:tid 13049393631104] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 04:20:55.741339 2024] [impm.event:notice] [id 33:tid 1306904935031104] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 04:20:55.55.51650 2024] [impm.event:notice] [id 33:tid 1306904935031104] AH00499: apache/2.4.58 (Ubuntu) configured -- resuming normal operations

flue bec 17 04:20:55.55.51650 2024] [impm.event:notice] [id 3
```

Apache log files are files generated by Apache HTTP server that record many events and requests made to the server. They are used for monitoring, troubleshooting, and analyzing server activity. There are two types Access logs which records details about incoming requests to the server and error logs which records any errors or issues encountered by the server.