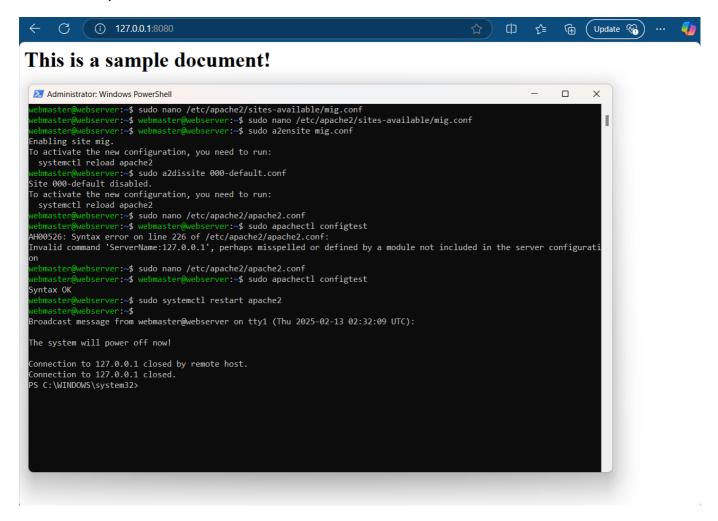
# Deliverable 2

#### Web Sample Document



# Server Specifications



```
Ubuntu 24.04.1 LTS webserver tty1
webserver login: webmaster
Password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-53-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                   https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/pro
 System information as of Thu Feb 13 12:58:51 AM UTC 2025
 System load:
                           0.06
 Usage of /:
                           42.9% of 9.75GB
 Memory usage:
 Swap usage:
                           0%
 Processes:
                           124
 Users logged in:
 IPv4 address for enp0s3: 10.0.2.15
  IPv6 address for enp0s3: fd00::a00:27ff:fef6:6773
Expanded Security Maintenance for Applications is not enabled.
133 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@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 configtest 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

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.