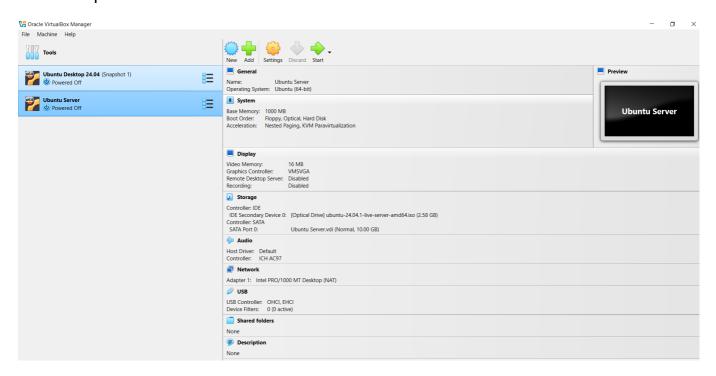
Deliverable2(fixed).md 2024-12-19

Deliverable 2

Server specs



Configuring

```
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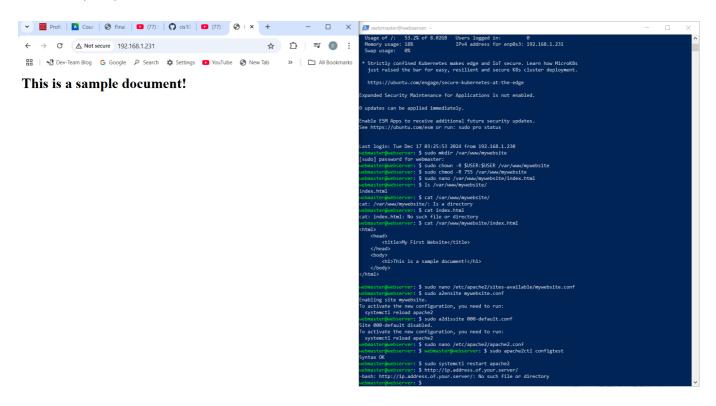
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Gettij http://us.archive.ubuntu.com/ubuntu noble-
```

Sample site

Deliverable2(fixed).md 2024-12-19



1. What is the IP address of your Ubuntu Server Virtual Machine?

The IP is 192.168.1.231

2. How do you enable the Ubuntu Firewall?

Use the command sudo ufw enable

3. How do you check if the Ubuntu Firewall is running?

Use the command sudo ufw status

4. How do you disable the Ubuntu Firewall?

Use the command sudo ufw disable

5. How do you add Apache to the Firewall?

Use command sudo ufw allow 'Apache'

6. What is the command you used to install Apache?

Use the command sudo apt install apache2 -y to install Apache

7. What is the command you use to check if Apache is running?

Use the command sudo systematl status apache2

8. What is the command you use to stop Apache?

Use the command sudo service apache2 stop

9. What is the command you use to restart Apache?

Deliverable2(fixed).md 2024-12-19

Use the command sudo service apache2 restart

10. What is the command used to test Apache configuration?

Use the command sudo apachectl -t

11. What is the command used to check the installed version of Apache?

Use the command sudo apache2 -v

12. What are the most common commands to troubleshoot Apache errors? Provide a brief description of each command.

systematl - Used to control and interact with Linux services via the systemd service manager.

journalctl - Used to query and view the logs that are generated by systemd.

```
Output

Jul 14 20:12:14 ubuntu2004 systemd[1]: Starting The Apache HTTP Server...

Jul 14 20:12:14 ubuntu2004 systemd[1]: Started The Apache HTTP Server.
```

apachect 1 - When troubleshooting, this command is used to check Apache's configuration.

```
AH00526: Syntax error on line 232 of /etc/apache2/apache2.conf:
Invalid command 'SSLEngine', perhaps misspelled or defined by a module not included in the serv Action 'configtest' failed.
The Apache error log may have more information.
```

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

This is an Apache Log file. /var/log/httpd/error_log. Apache log files are used for troubleshooting, generally, any error that you receive in a browser or other HTTP client will have a corresponding entry in Apache's logs.

```
Error Log Examples
[Wed Jul 15 01:34:12.093005 2020] [proxy:error] [pid 13949:tid 140150453516032] (13)Permission
[Wed Jul 15 01:34:12.093078 2020] [proxy_http:error] [pid 13949:tid 140150453516032] [client 13
```