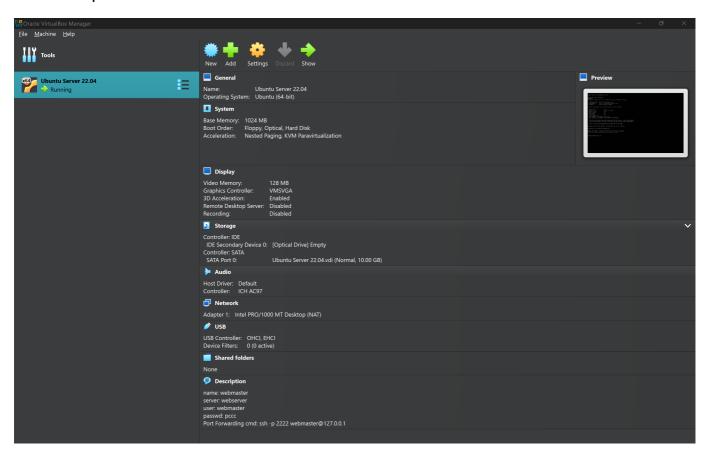
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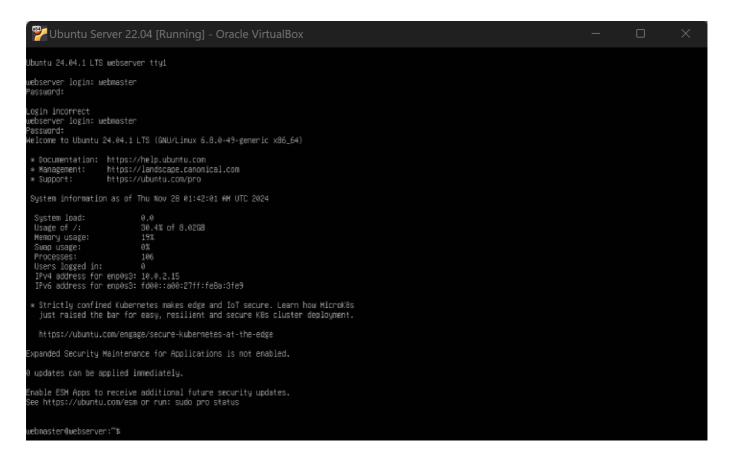
Deliverable 2 Submission

Server Specifications



Ubuntu Login Screen

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Questions

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

```
ip address > 127.0.0.1
```

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 -y
```

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?

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```
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.
 - Check Apache status:

```
sudo systemctl status apache2
```

Provides details on whether Apache is running and highlights errors.

• Check configuration for syntax errors:

```
sudo apache2ctl configtest
```

Validates the Apache configuration for errors.

• Restart Apache:

```
sudo systemctl restart apache2
```

Reloads Apache after making changes.

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

Apache log files are located in /var/log/apache2/. The most common log files are:

• Access Log (access . log): Logs all requests made to the server. Useful for tracking visitors.

```
sudo tail /var/log/apache2/access.log
```

• **Error Log (error.log)**: Logs error messages, useful for troubleshooting.

```
sudo tail /var/log/apache2/error.log
```

```
mebmaster@mebmaster: $ sudo tail /var/log/apache2/error.log
[sudo] password for webmaster:
[Wed Nov 27 20:19:01.287203 2024] [mpm_event:notice] [pid 857:tid 137850087614336] AH00489: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
[Wed Nov 27 20:19:01.29329 2024] [core:notice] [pid 857:tid 137850087614336] AH00049: Command line: '/usr/sbin/apache2'
[Wed Nov 27 20:23:04.2582577 2024] [mpm_event:notice] [pid 857:tid 137850087614336] AH00049: caught SIGMINCH, shutting down gracefully
[Wed Nov 27 20:23:04.268213 2024] [mpm_event:notice] [pid 879:tid 128789870188416] AH00499: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
[Wed Nov 27 20:23:04.272635 2024] [core:notice] [pid 879:tid 128789870188416] AH00499: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
[Wed Nov 27 21:10:03.32114 2024] [mpm_event:notice] [pid 879:tid 128789870188416] AH00499: caught SIGMINCH, shutting down gracefully
[Wed Nov 27 21:10:03.169127 2024] [mpm_event:notice] [pid 1513:tid 125688438228864] AH00499: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
[Wed Nov 27 21:06:03.169161 2024] [core:notice] [pid 1513:tid 125688438228864] AH00994: Command line: '/usr/sbin/apache2'
[Wed Nov 27 22:06:24.903314 2024] [core:notice] [pid 515:tid 132976524494720] AH00499: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
[Wed Nov 27 22:06:24.903314 2024] [core:notice] [pid 551:tid 132976524494720] AH00499: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
[Wed Nov 27 22:06:24.903314 2024] [core:notice] [pid 551:tid 132976524494720] AH00499: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations
```