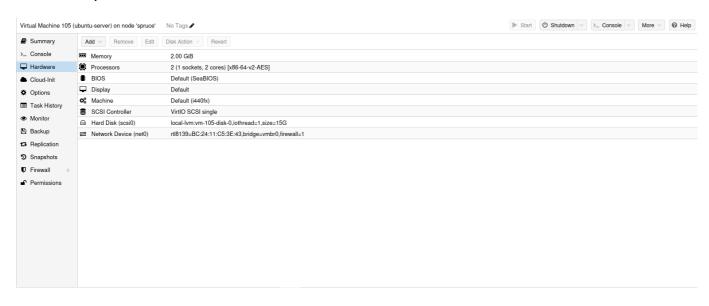
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Deliverable 2 Submission

Server Specifications



Ubuntu Login Screen

```
Ubuntu 24.04.1 LTS webserver tty1
webserver login: webmaster
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-49-generic x86_64)
* Documentation: https://help.ubuntu.com
 * Management:
                    https://landscape.canonical.com
                    https://ubuntu.com/pro
 System information as of Mon Dec 2 03:55:43 AM UTC 2024
  System load:
                           44.8% of 9.75GB
  Usage of /:
 Memory usage:
  Swap usage:
  Processes:
                           103
 Users logged in:
  IPv4 address for ensi8: 192,168.69.111
IPv6 address for ensi8: fd7f:a252:2312:2517:be24:11ff:fec5:3e43
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? 192.168.69.111
- 4. How do you enable the Ubuntu Firewall? sudo ufw enable/allow
- 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

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- 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? systemctl status apache2 -- no-pager
- 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 systematl 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 configuration: This command checks the Apache configuration files for syntax errors. It's useful to run after making changes to the configuration to ensure there are no mistakes.

apache2ctl -t: Similar to the configuration files for any errors without starting or restarting the server.

systemctl status apache2: This command shows the current status of the Apache service, including whether it is running, stopped, or encountered any issues.

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

Apache logs are stored within /var/log/apache2/error.log. This log is used for monitoring and troubleshooting your apache web server. The purpose is to record specific information about the server's operations like requests, errors and etc.

```
**webmaster@webserver:->
**webmaster@webserver:->
**tail -f /var/log/apache2/error.log

[Mon Dec 02 00:26:41.763207 20:41] [core:notice] [pid 864:tid 132486132610944] AH00094: Command line: '/usr/sbin/apache2'

[Mon Dec 02 00:29:37.239943 20:24] [mpm_event:notice] [pid 1302:tid 135285880264576] AH00489: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations

[Mon Dec 02 00:29:37.239943 20:24] [core:notice] [pid 1302:tid 13528580264576] AH00489: Apache/2.4.58 (Ubuntu) configured -- resuming normal operations

[Mon Dec 02 00:32:17.077275 20:24] [mpm_event:notice] [pid 1302:tid 13528580264576] AH00494: Command line: '/usr/sbin/apache2'

[Mon Dec 02 00:31:7.177775 20:24] [mpm_event:notice] [pid 1302:tid 13528580264576] AH00492: caught 5IGMINCH, shutting down gracefully

[Mon Dec 02 03:24:33.782593 20:24] [mpm_event:notice] [pid 867:tid 125949780940672] AH00492: caught 5IGMINCH, shutting down gracefully

[Mon Dec 02 03:24:33.783302 20:24] [core:notice] [pid 867:tid 125949780940672] AH00492: caught 5IGMINCH, shutting down gracefully

[Mon Dec 02 03:56:51.693804 20:24] [mpm_event:notice] [pid 867:tid 125949780940672] AH00492: caught 5IGMINCH, shutting down gracefully

[Mon Dec 02 04:11:24.023564 20:24] [mpm_event:notice] [pid 868:tid 132910239188664] AH00492: Command line: '/usr/sbin/apache2'

**Command line: '/usr/sbin/apache2'

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**Webmaster@webserver:-$*

**Mebserver:-$*

**Webmaster@webserver:-$*

**Mebserver:-$*

**Mebserver:-*
**Mebserver:
```