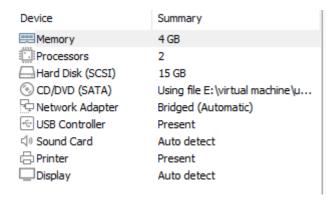
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Deliverable 2 Submission

What are the server hardware specifications (virtual machine settings)? Take a screenshot - don't type it!



What is Ubuntu server log in screen? Take screenshot - do not type it!

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

```
IPv4 address for ens33: 192.168.1.180
http://192.168.1.180/
```

How do you enable the Ubuntu Firewall?

```
webmaster@webserver:~$ sudo ufw enable
[sudo] password for webmaster:
Firewall is active and enabled on system startup
webmaster@webserver:~$
sudo ufw enable
```

How do you check if the Ubuntu Firewall is running?

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```
webmaster@webserver:~$ sudo ufw status
              Status: active
                                           Action
                                                        From
              Apache:
                                           ALLOW
                                                        Anywhere
              OpenSSH
                                           ALLOW
                                                        Anywhere
              Apache (v6)
                                                        Anywhere (v6)
              OpenSSH (v6)
                                           ALLOW
                                                        Anywhere (v6)
sudo ufw status webmaster@webserver:~$
```

How do you disable the Ubuntu Firewall?

```
webmaster@webserver:~$ sudo ufw disable
Firewall stopped and disabled on system startup
sudo ufw disable
webmaster@webserver:~$ _
```

How do you add Apache to the Firewall?

```
webmaster@webserver:~$ sudo ufw allow 'Apache'
Skipping adding existing rule
Skipping adding existing rule (v6)
sudo ufw allow 'Apache'
sudo ufw allow 'Apache'
```

What is the command you used to install Apache?

sudo apt install apache2

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

systemctl status apache2 --no-pager

What is the command you use to stop Apache?

sudo systemctl stop apache2

What is the command you use to restart Apache?

sudo systemctl restart apache2

What is the command used to test Apache configuration?

sudo apache2ctl configtest

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

```
apache2 -v
```

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

systemctl:

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Description: Used to control and interact with Linux services via the systemd service manager.

Example: sudo systemctl status apache2

journalctl:

Description: Used to query and view logs generated by systemd, providing information about Apache's service status and errors.

Example: sudo journalctl apache2

apachectl:

Description: Used to check Apache's configuration and perform various operations, including testing the configuration.

Example: sudo apachectl configtest

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

Apache log files are essential for troubleshooting, capturing errors, and providing diagnostic information. They are separate from systemd logs and include access logs and error logs.

Example: /var/log/apache2/error.log