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Course	cis106
Semester	spring25


Deliverable 2


Server Specifications


 **New**


 **Add**


 **Settings**


 **Discard**


 **Show**


 **Preview**


 **General**


 **System**


 **Display**


 **Storage**

 **Audio**

 **Network**

 **USB**

 **Shared folders**

 **Description**

Name: Ubuntu Server

Operating System: Ubuntu (64-bit)

Base Memory: 2048 MB

Processors: 2

Boot Order: Optical, Hard Disk

Acceleration: Nested Paging, KVM Paravirtualization

Video Memory: 128 MB

Graphics Controller: VMSVGA

Remote Desktop Server: Disabled

Recording: Disabled

Controller: IDE

IDE Secondary Device 0: [Optical Drive] Empty

Controller: SATA

SATA Port 0: Ubuntu Server.vdi (Normal, 15.00 GB)

Disabled

Adapter 1: Intel PRO/1000 MT Desktop (Bridged Adapter, Killer E2200 Gigabit Ethernet Controller)

USB Controller: OHCI, EHCI

Device Filters: 0 (0 active)

None

Hostname: webserver

user: Adrik

password: pccc

Ubuntu Login Screen

```
Ubuntu 24.04.2 LTS webserver tty1
webserver login: adrik
Password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-59-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Mon May 12 10:42:57 PM UTC 2025

System load:  0.16          Processes:           112
Usage of /:   44.7% of 9.75GB Users logged in:          0
Memory usage: 9%           IPv4 address for enp0s3: 192.168.1.119
Swap usage:   0%

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

adrik@webserver:~$
```

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

- 192.168.1.119

How do you enable the Ubuntu Firewall?

- sudo ufw enable
 - ufw, or "Uncomplicated Firewall", is a command-line tool for managing firewall rules.
 - sudo ufw status
 - sudo ufw disable
 - sudo ufw enable

How do you check if the Ubuntu Firewall is running?

- sudo ufw status

How do you disable the Ubuntu Firewall?

- sudo ufw disable

How do you add Apache to the Firewall?

- sudo ufw allow 'Apache'

What is the command you used to install Apache?

- sudo apt install apache2 -y

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

- `systemctl status apache2 --no-pager`
 - `systemctl` is a command-line tool that allows for the management and monitoring of the `systemd` system and service manager
 - `systemctl reboot`
 - `systemctl poweroff`
 - `systemctl get-default`

What is the command you use to stop Apache?

- `sudo apachectl stop`

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`

Definitions and Examples

- `systemctl` is a command-line tool that allows for the management and monitoring of the `systemd` system and service manager
 - `systemctl reboot`
 - `systemctl poweroff`
 - `systemctl get-default`
- `ufw`, or "Uncomplicated Firewall", is a command-line tool for managing firewall rules.
 - `sudo ufw status`
 - `sudo ufw disable`
 - `sudo ufw enable`

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

- `systemctl`
 - 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`
- `apachectl`
 - When troubleshooting, this command is used to check Apache's configuration.

Which are the common Apache Log Files, and what are they used for?:

- The access log and the error log

- sudo tail -f /var/log/apache2/access.log
- sudo head /var/log/apache2/access.log

```
Ubuntu Server [Running] - Oracle VirtualBox
File Machine View Input Devices Help
adrik@webserver:~$ sudo tail -f /var/log/apache2/access.log
192.168.1.231 - - [12/May/2025:21:29:50 +0000] "GET / HTTP/1.1" 200 719 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
192.168.1.231 - - [12/May/2025:21:29:50 +0000] "GET /favicon.ico HTTP/1.1" 404 491 "http://192.168.1.119/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
192.168.1.231 - - [12/May/2025:21:30:42 +0000] "-" 408 0 "-" "-"
192.168.1.231 - - [12/May/2025:21:40:53 +0000] "-" 408 0 "-" "-"
192.168.1.231 - - [12/May/2025:21:40:53 +0000] "-" 408 0 "-" "-"
192.168.1.231 - - [12/May/2025:21:52:08 +0000] "GET /index.html HTTP/1.1" 200 719 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
192.168.1.231 - - [12/May/2025:21:52:44 +0000] "GET /index.html HTTP/1.1" 200 722 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
192.168.1.231 - - [12/May/2025:21:53:36 +0000] "-" 408 0 "-" "-"
^C
adrik@webserver:~$ sudo head /var/log/apache2/access.log
192.168.1.231 - - [12/May/2025:21:29:50 +0000] "GET / HTTP/1.1" 200 719 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
192.168.1.231 - - [12/May/2025:21:29:50 +0000] "GET /favicon.ico HTTP/1.1" 404 491 "http://192.168.1.119/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
192.168.1.231 - - [12/May/2025:21:30:42 +0000] "-" 408 0 "-" "-"
192.168.1.231 - - [12/May/2025:21:40:53 +0000] "-" 408 0 "-" "-"
192.168.1.231 - - [12/May/2025:21:40:53 +0000] "-" 408 0 "-" "-"
192.168.1.231 - - [12/May/2025:21:52:08 +0000] "GET /index.html HTTP/1.1" 200 719 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/136.0.0.0 Safari/537.36"
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192.168.1.231 - - [12/May/2025:21:53:36 +0000] "-" 408 0 "-" "-"
adrik@webserver:~$ _
```

Web Page



This is a Sample Document

Lorem ipsum dolor sit amet consectetur adipisicing elit. Quo mollitia iusto veritatis totam tempora laborum illum impedit. Vero voluptas aspernatur mollitia. Perspiciatis fugiat ullam repellendus pariatur fugit consequuntur excepturi in. Hello