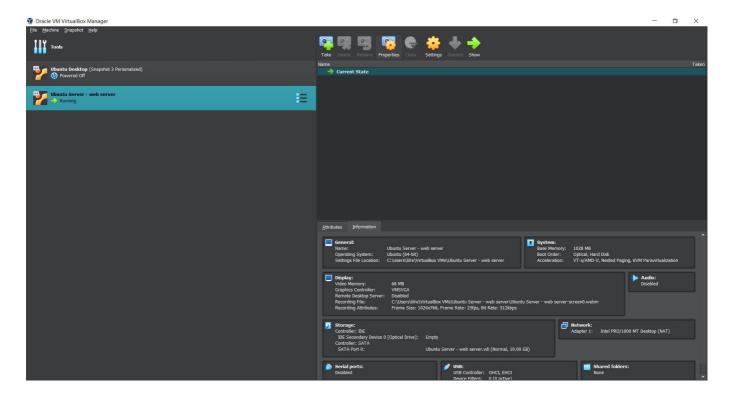
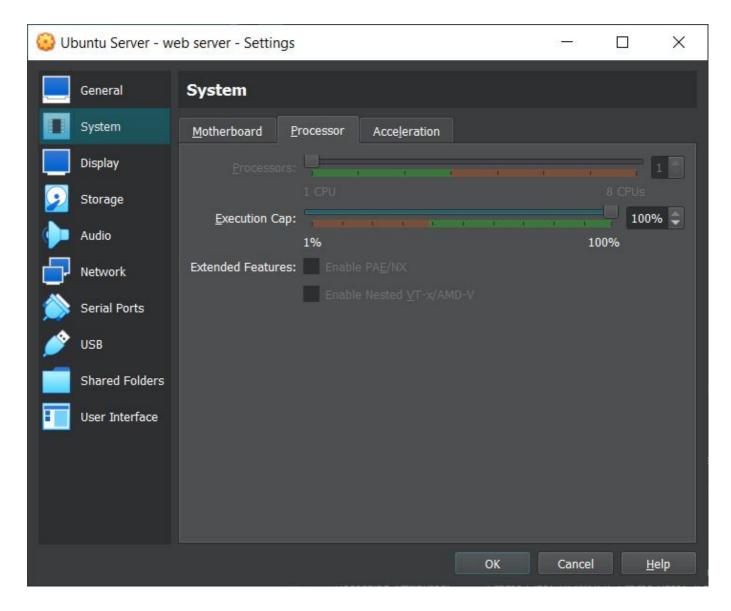
# Deliverable 2 Submission

## Question 1

Screenshot of hardware information.

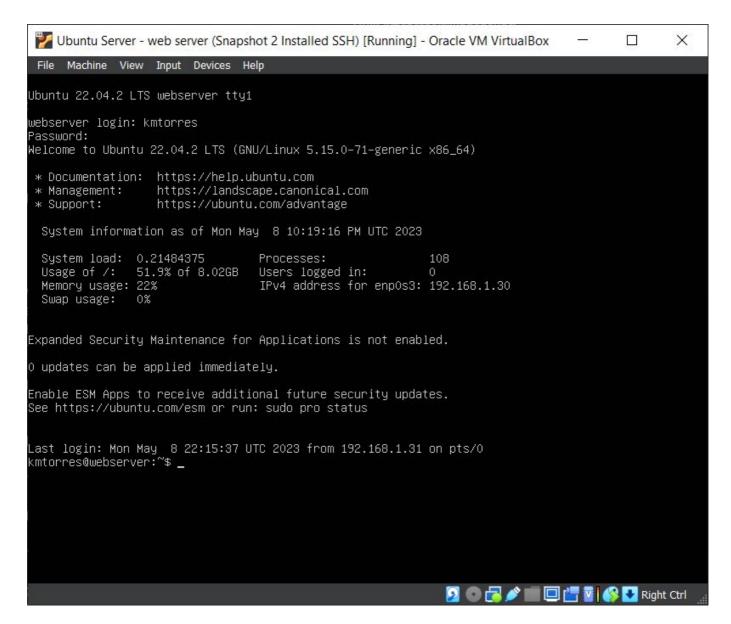


Screenshot of CPUs.



## Question 2

Screenshot of login screen of the server right after logging in.



## Question 3

Screenshot of connecting to the server with ssh from Ubuntu Desktop.

```
1: kmtorres@webserver: ~ ~
kmtorres@webserver:~$ exit
logout
Connection to 192.168.1.30 closed.
kmtorres46747@cis106:~$ ssh kmtorres@192.168.1.30
kmtorres@192.168.1.30's password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-71-generic x86_64)
* Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
 System information as of Mon May 8 10:46:12 PM UTC 2023
 System load: 0.0
                                  Processes:
                                                           106
 Usage of /: 51.9% of 8.02GB Users logged in:
 Memory usage: 22%
                                  IPv4 address for enp0s3: 192.168.1.30
 Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
O updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Mon May 8 22:19:35 2023 from 192.168.1.31
kmtorres@webserver:~$
```

## Question 4

Screenshot of using command systemctl status apache2 --no-pager

```
kmtorres@webserver:~$ systemctl status apache2 --no-pager
 apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Mon 2023-05-08 22:39:56 UTC; 8min ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 1373 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 1377 (apache2)
     Tasks: 55 (limit: 1028)
    Memory: 5.2M
        CPU: 46ms
    CGroup: /system.slice/apache2.service
              —1377 /usr/sbin/apache2 -k start
              —1378 /usr/sbin/apache2 -k start
             _1379 /usr/sbin/apache2 -k start
May 08 22:39:56 webserver systemd[1]: apache2.service: Deactivated successfully.
May 08 22:39:56 webserver systemd[1]: Stopped The Apache HTTP Server.
May 08 22:39:56 webserver systemd[1]: Starting The Apache HTTP Server...
May 08 22:39:56 webserver systemd[1]\colon Started The Apache HTTP Server.
```

#### Screenshot of using command systemctl status sshd --no-pager

```
kmtorres@webserver:~$ systemctl status sshd --no-pager
 ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
     Active: active (running) since Mon 2023-05-08 22:19:05 UTC; 30min ago
       Docs: man:sshd(8)
             man:sshd_config(5)
    Process: 710 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 754 (sshd)
      Tasks: 1 (limit: 1028)
     Memory: 6.8M
        CPU: 74ms
     CGroup: /system.slice/ssh.service
             └─754 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
May 08 22:19:05 webserver sshd[754]: Server listening on 0.0.0.0 port 22.
May 08 22:19:05 webserver sshd[754]: Server listening on :: port 22.
May 08 22:19:05 webserver systemd[1]: Started OpenBSD Secure Shell server.
May 08 22:19:23 webserver sshd[1079]: <code>pam_unix(sshd:auth): authentication failure; logna…torres</code>
May 08 22:19:25 webserver sshd[1079]: Failed password for kmtorres from 192.168.1.31 por…2 ssh2
May 08 22:19:30 webserver sshd[1079]: Failed password for kmtorres from 192.168.1.31 por…2 ssh2
May 08 22:19:35 webserver sshd[1079]: Accepted password for kmtorres from 192.168.1.31 p…2 ssh2
May 08 22:19:35 webserver sshd[1079]: pam_unix(sshd:session): session opened for user km…uid=0)
May 08 22:46:12 webserver sshd[1439]: Accepted password for kmtorres from 192.168.1.31 p…8 ssh2
May 08 22:46:12 webserver sshd[1439]: pam_unix(sshd:session): session opened for user km…uid=0)
Hint: Some lines were ellipsized, use -l to show in full.
```

### Screenshot of using command systematl status ufw --no-pager

```
kmtorres@webserver:~$ systemctl status ufw --no-pager

ufw.service - Uncomplicated firewall
Loaded: loaded (/lib/systemd/system/ufw.service; enabled; vendor preset: enabled)
Active: active (exited) since Mon 2023-05-08 22:19:02 UTC; 30min ago
Docs: man:ufw(8)
Process: 564 ExecStart=/lib/ufw/ufw-init start quiet (code=exited, status=0/SUCCESS)
Main PID: 564 (code=exited, status=0/SUCCESS)
CPU: 37ms
May 08 22:19:02 webserver systemd[1]: Starting Uncomplicated firewall...
May 08 22:19:02 webserver systemd[1]: Finished Uncomplicated firewall...
```

## Question 5

Screenshot of the last 10 lines of the follow files:

Apache: access.logApache: error.log

#### SSH: auth.log

```
SSFR: AUCH.LOG

mathematemaners: attal /ver/tag/agache2/sccess.log

192.168.1.5 - [80,May/2023:21:55:14 -0888] "GET / HTTP/1.1" 200 3468 "." "Mozilla/5.8 (Mindows NT 18.0; Winck; x64) AppleWebKit/537.36 (KHTML, like Gocko) Chrome/112.0.8.8 Safari/537.36"

192.168.1.5 - [80,May/2023:21:55:14 -0888] "GET / HTTP/1.1" 200 3468 "." "Mozilla/5.0 (Mindows NT 18.0; Winck; x64) AppleWebKit/537.36 (KHTML, like Gocko) Chrome/112.0.8 Safari/537.36"

192.168.1.5 - [80,May/2023:21:55:17 +0888] "GET / Havicon.ice HTTP/1.1" 486 498 "http://192.168.1.39/" "Mozilla/5.0 (Windows NT 18.0; Winck; x64) AppleWebKit/537.36 (KHTML, like Gocko) Chrome/112.0.8 Safari/537.34"

192.168.1.5 - [80,May/2023:22:20:19 +0888] "GET / Havicon.ice HTTP/1.1" 486 498 "http://192.168.1.38/" "Mozilla/5.0 (Windows NT 18.0; Winck; x64) AppleWebKit/537.36 (KHTML, like Gocko) Chrome/112.0.8 Safari/537.34"

192.168.1.5 - [80,May/2023:22:20:19 +0888] "GET / Favicon.ice HTTP/1.1" 486 498 "http://192.168.1.38/" "Mozilla/5.0 (XHI; Ubuntu; Linux x86.44; rv:189.0) Gocko/20180101 Firefox/112.0"

192.168.1.31 - [80,May/2023:22:20:19 +0888] "GET / Favicon.ice HTTP/1.1" 486 498 "http://192.168.1.38/" "Mozilla/5.0 (XHI; Ubuntu; Linux x86.44; rv:189.0) Gocko/20180101 Firefox/112.0"

192.168.1.31 - [80,May/2023:22:20:19 +0888] "GET / Favicon.ice HTTP/1.1" 486 498 "http://192.168.1.38/" "Mozilla/5.0 (XHI; Ubuntu; Linux x86.44; rv:189.0) Gocko/20180101 Firefox/112.0"

192.168.1.31 - [80,May/2023:22:20:19 Association of the Associat
```

### Question 6

Screenshot of the sites-available config file.

```
kmtorres@webserver:~$ cat /etc/apache2/sites-available/website.conf
<VirtualHost *:80>
    ServerAdmin kmtorres@localhost
    ServerName website
    ServerAlias www.website
    DocumentRoot /var/www/website
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

Screenshot of the top of the apache2.conf file

• Everything is on the default configuration.

```
kmtorres@webserver:~$ cat /etc/apache2/apache2.conf
# This is the main Apache server configuration file. It contains the
# configuration directives that give the server its instructions.
# See http://httpd.apache.org/docs/2.4/ for detailed information about
# the directives and /usr/share/doc/apache2/README.Debian about Debian specific
# hints.
# Summary of how the Apache 2 configuration works in Debian:
# The Apache 2 web server configuration in Debian is quite different to
# upstream's suggested way to configure the web server. This is because Debian's
# default Apache2 installation attempts to make adding and removing modules,
# virtual hosts, and extra configuration directives as flexible as possible, in
# order to make automating the changes and administering the server as easy as
# possible.
# It is split into several files forming the configuration hierarchy outlined
# below, all located in the /etc/apache2/ directory:
        /etc/apache2/
        |-- apache2.conf
               `-- ports.conf
        -- mods-enabled
#
                |-- *.load
#
                `-- *.conf
#
        |-- conf-enabled
                `-- *.conf
        `-- sites-enabled
                `-- *.conf
 * apache2.conf is the main configuration file (this file). It puts the pieces
    together by including all remaining configuration files when starting up the
#
   web server.
 * ports.conf is always included from the main configuration file. It is
   supposed to determine listening ports for incoming connections which can be
```

Screenshot of the bottom of the apache2.conf file.

• Highlighted the only manual change.

```
# viewed by Web clients.
<FilesMatch "^\.ht">
        Require all denied
</FilesMatch>
 The following directives define some format nicknames for use with
# a CustomLog directive.
# These deviate from the Common Log Format definitions in that they use %O
 (the actual bytes sent including headers) instead of %b (the size of the
 requested file), because the latter makes it impossible to detect partial
 requests.
# Note that the use of %\{X-Forwarded-For\}i instead of \%h is not recommended.
# Use mod_remoteip instead.
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"" vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %0 \ "%{Referer}i\" \"%{User-Agent}i\"" vho
LogFormat "%h %l %u %t \"%r\" %>s %0 \ "%{Referer}i\" \ "%{User-Agent}i\"" combined
LogFormat "%{Referer}i -> %U" referer
LogFormat "%{User-agent}i" agent
# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.
# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf
# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
ServerName 127.0.0.1
kmtorres@webserver:~$
```

## Question 7

Screenshot showing the ip address of my server and the website being accessed from the Ubuntu Desktop virtual machine.

