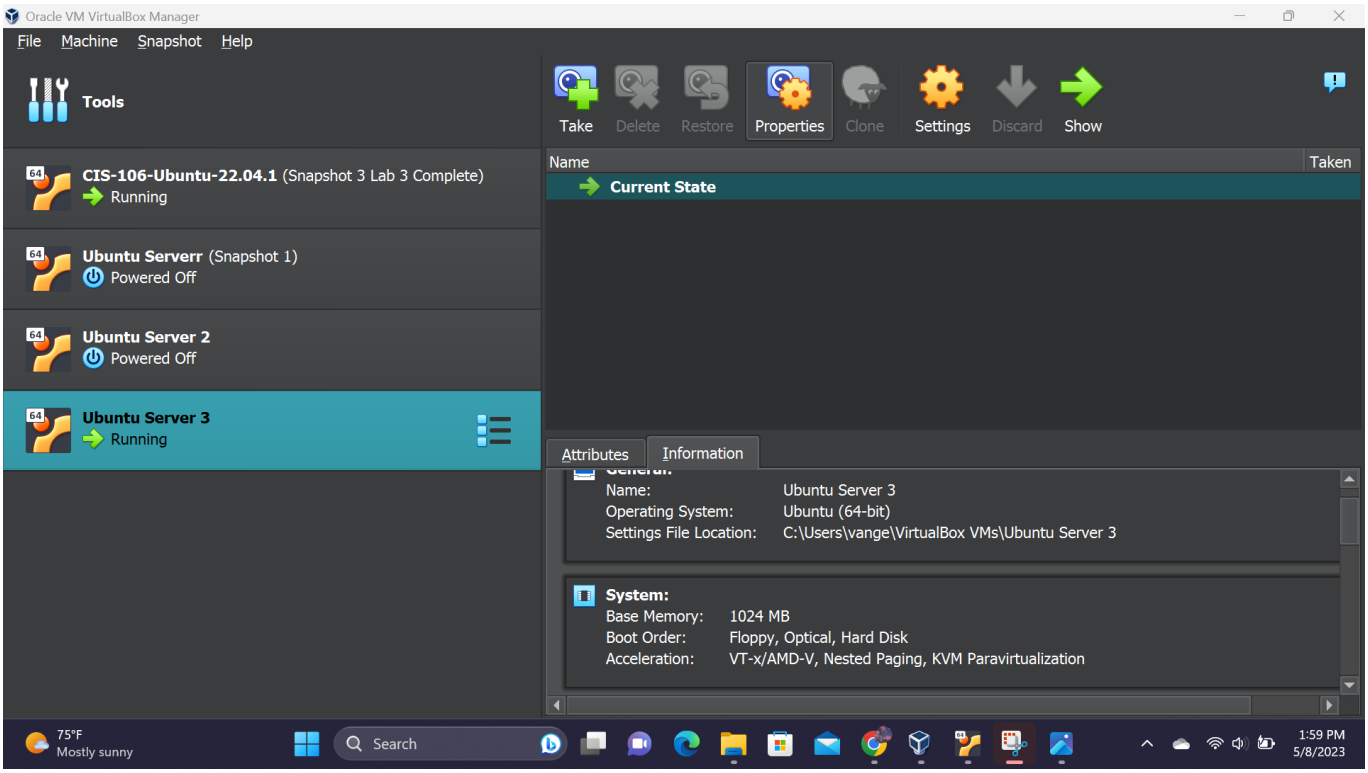
Deliverable 2 Submission

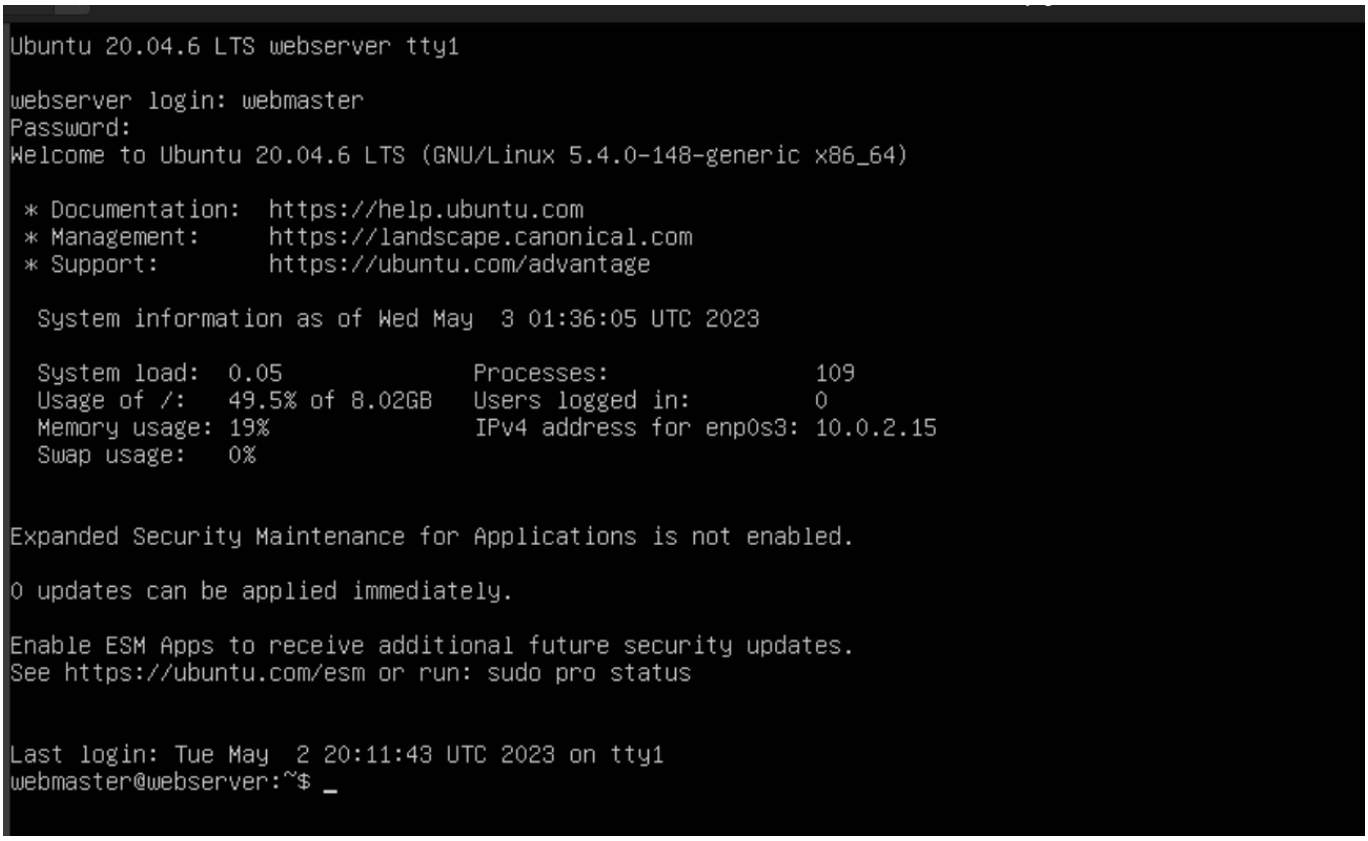
Working with Ubuntu Server and Apache

Create a virtual machine for the server



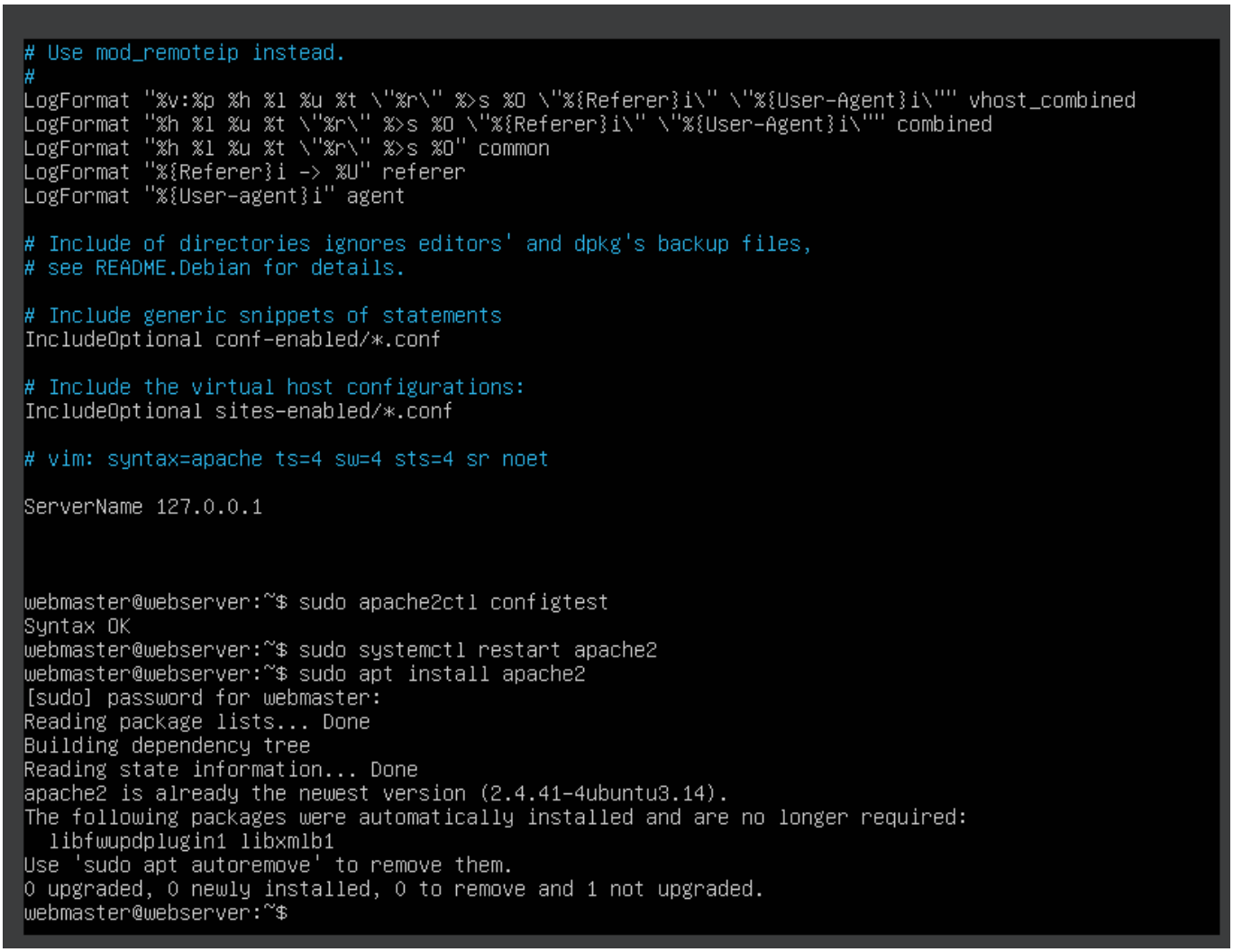
Attached is an image showcasing the created virtual machine that meets the following specifications like the CPU of 1 Core, RAM of 1 GB and hard disk drive of 10 GB

Install Ubuntu Server



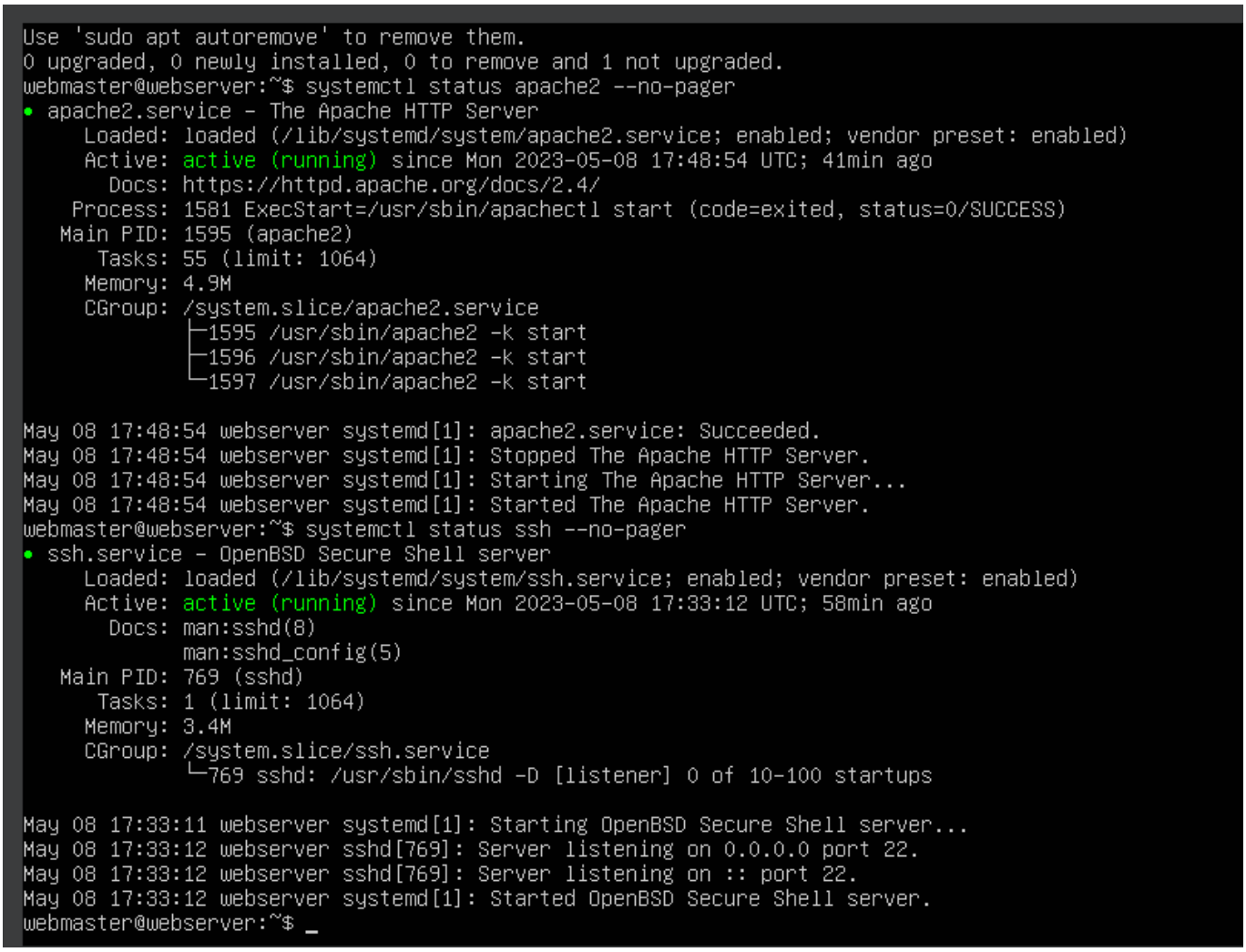
Attached is an image of the installation of Ubuntu Server. Screenshot of the login screen to the server right after you log in to the server

Install Apache2



Attached is an image of the installation of Apache2

Showcasing Command Status



Attached is an image of the following commands:

- systemctl status apache2 --no-pager
- systemctl status sshd --no-pager
- systemctl status ufw --no-pager

Showcasing Last 10 lines of the following files

```
[Mon May 08 17:48:54.802584 2023] [mpm_event:notice] [pid 795:tid 140506323221568] AH00491: caught S
IGTERM, shutting down
[Mon May 08 17:48:54.878224 2023] [mpm_event:notice] [pid 1595:tid 140371821866048] AH00489: Apache/
2.4.41 (Ubuntu) configured -- resuming normal operations
[Mon May 08 17:48:54.878290 2023] [core:notice] [pid 1595:tid 140371821866048] AH00094: Command line
: '/usr/sbin/apache2'
webmaster@webserver:~$ sudo tail -n 10 /var/log/apache2/auth.log
tail: cannot open '/var/log/apache2/auth.log' for reading: No such file or directory
webmaster@webserver:~$ sudo tail -n 10 /var/log/ssh/auth.log
tail: cannot open '/var/log/ssh/auth.log' for reading: No such file or directory
webmaster@webserver:~$ sudo tail -n 10 /var/log/ssh/auth.log
tail: cannot open '/var/log/ssh/auth.log' for reading: No such file or directory
webmaster@webserver:~$ sudo tail -n 10 /var/log/apache2/access.log
webmaster@webserver:~$ sudo tail -n 10 /var/log/apache2/error.log
[Mon May 08 17:22:26.129451 2023] [core:notice] [pid 794:tid 140456353680448] AH00094: Command line:
 '/usr/sbin/apache2'
[Mon May 08 17:30:39.523480 2023] [mpm_event:notice] [pid 794:tid 140456353680448] AH00491: caught S
IGTERM, shutting down
[Mon May 08 17:30:39.575043 2023] [mpm_event:notice] [pid 1424:tid 139893809241152] AH00489: Apache/
2.4.41 (Ubuntu) configured -- resuming normal operations
[Mon May 08 17:30:39.575106 2023] [core:notice] [pid 1424:tid 139893809241152] AH00094: Command line
: '/usr/sbin/apache2'
[Mon May 08 17:30:55.239528 2023] [mpm_event:notice] [pid 1424:tid 139893809241152] AH00491: caught
SIGTERM, shutting down
[Mon May 08 17:33:12.368609 2023] [mpm_event:notice] [pid 795:tid 140506323221568] AH00489: Apache/2
.4.41 (Ubuntu) configured -- resuming normal operations
[Mon May 08 17:33:12.374217 2023] [core:notice] [pid 795:tid 140506323221568] AH00094: Command line:
 '/usr/sbin/apache2'
[Mon May 08 17:48:54.802584 2023] [mpm_event:notice] [pid 795:tid 140506323221568] AH00491: caught S
IGTERM, shutting down
[Mon May 08 17:48:54.878224 2023] [mpm_event:notice] [pid 1595:tid 140371821866048] AH00489: Apache/
2.4.41 (Ubuntu) configured -- resuming normal operations
[Mon May 08 17:48:54.878290 2023] [core:notice] [pid 1595:tid 140371821866048] AH00094: Command line
: '/usr/sbin/apache2'
webmaster@webserver:~$ sudo tail -n 10 /var/log/ssh/auth.log
tail: cannot open '/var/log/ssh/auth.log' for reading: No such file or directory
webmaster@webserver:~$
```

Attached is an image of the following commands:

- Apache: access.log
- Apache: error.log
- SSH: auth.log

Screenshot of the following configuration:

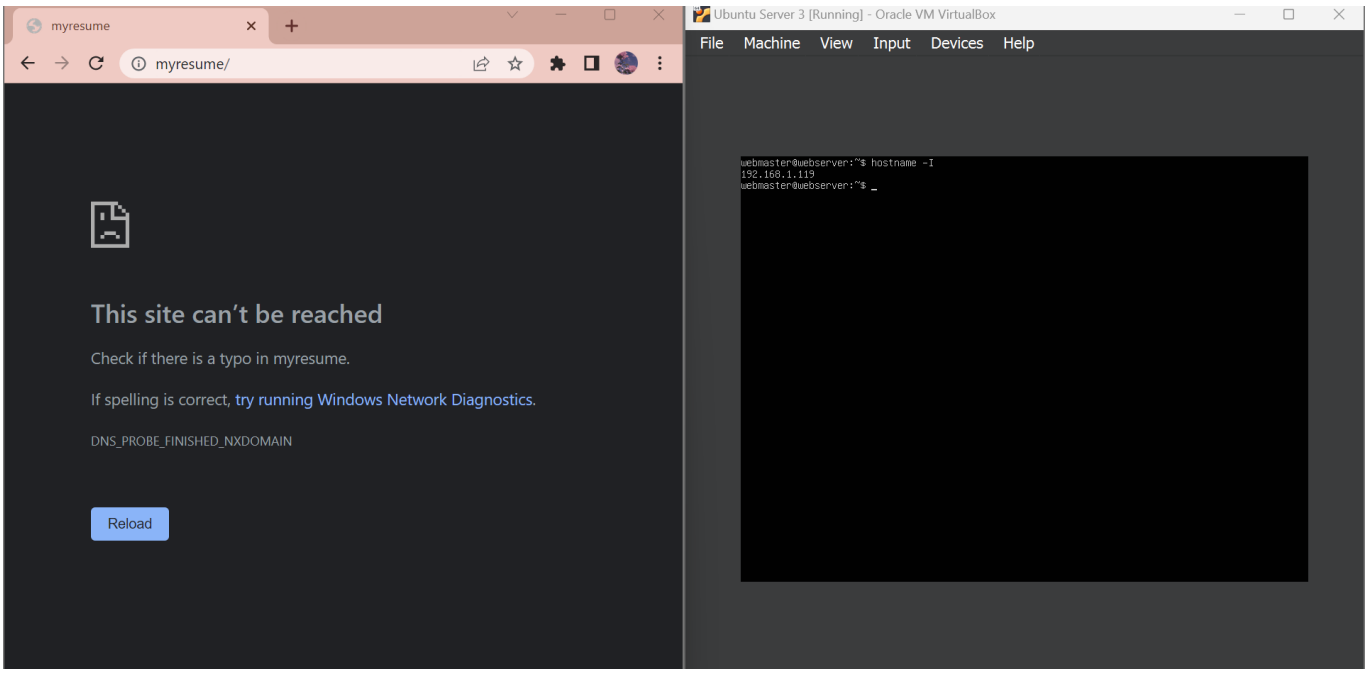
```
 GNU nano 4.8                  /etc/apache2/sites-available/myresume.conf
<VirtualHost *:80>
        ServerAdmin webmaster@localhost
        ServerName myresume
        ServerAlias www.myresume
        DocumentRoot /var/www/myresume
        ErrorLog ${APACHE_LOG_DIR}/error.log
        Customlog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

```
  GNU nano 4.8                          /etc/apache2/apache2.conf
# 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.
#

^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos    M-U Undo
^X Exit      ^R Read File  ^\ Replace   ^U Paste Text ^T To Spell  ^_ Go To Line M-E Redo
```

Attached are images of the configuration of:

- sites-available config file
- apache2.conf

Image of the ip address & Website attempt accessed



Attached is a screenshot of the IP showing and the attempt to show the sample document.