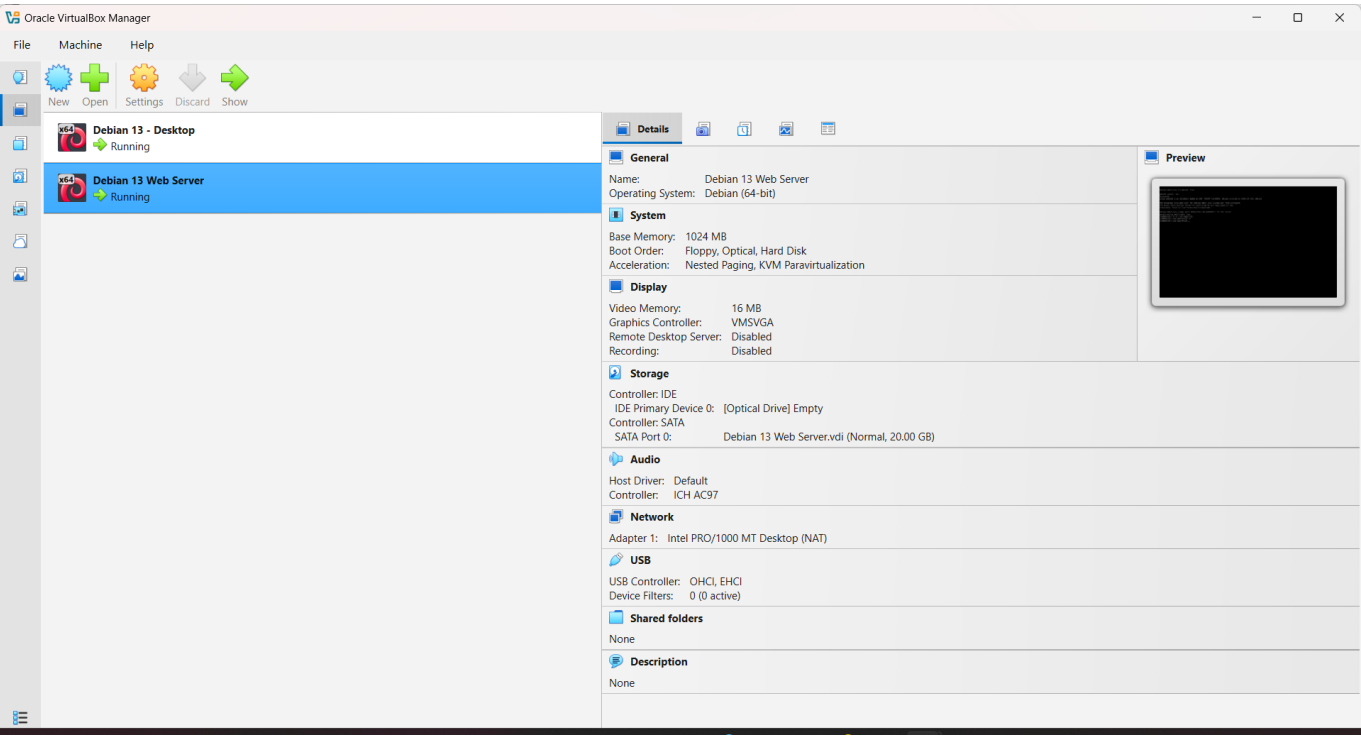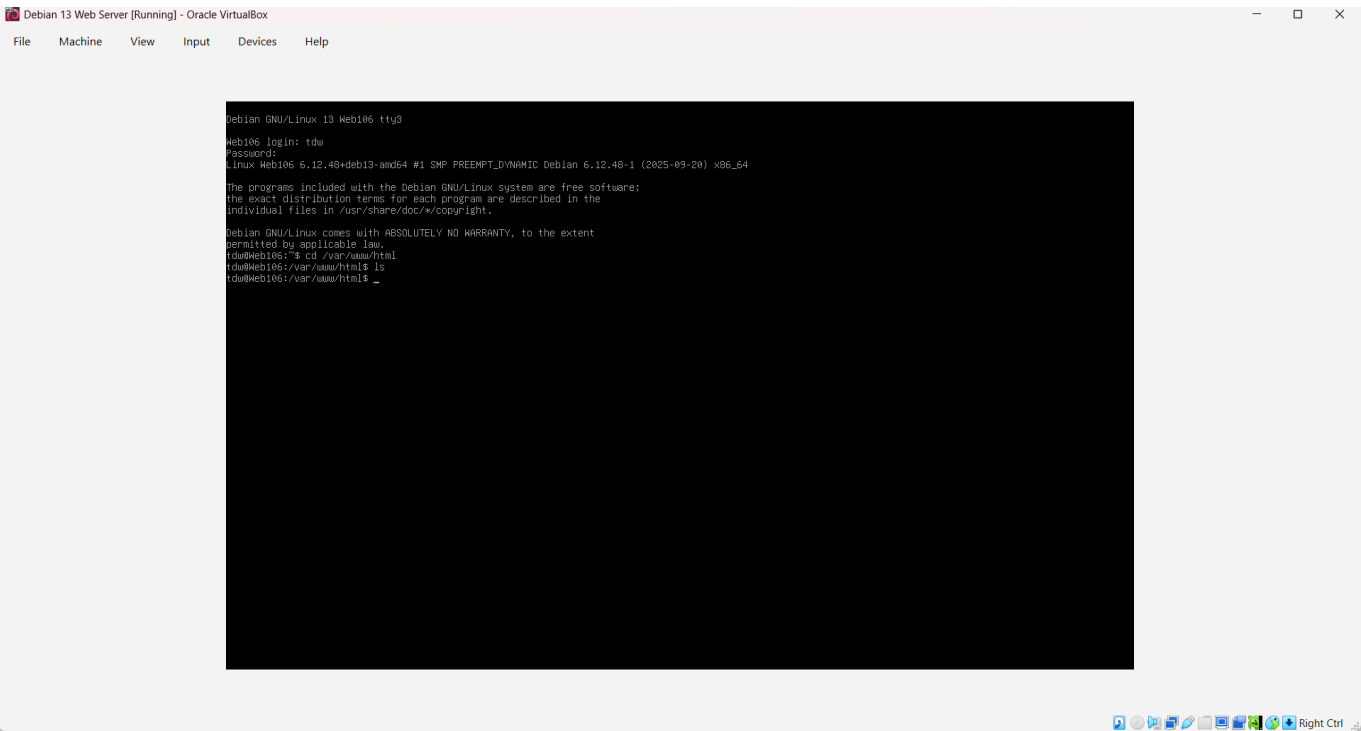# Deliverable 2

1. What are the server hardware specifications (virtual machine settings)?

2. What is the Debian Login Screen?

3. What is the IP address of your Debian Server Virtual Machine?

```
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:52:38:65 brd ff:ff:ff:ff:ff:ff
    altname enx080027523865
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
       valid_lft 83526sec preferred_lft 72726sec
    inet6 fd17:625c:f037:2:a00:27ff:fe52:3865/64 scope global dynamic mngtmpaddr proto kernel_ra
       valid_lft 86341sec preferred_lft 14341sec
    inet6 fd17:625c:f037:2:294:a5d2:1a99:1b56/64 scope global dynamic mngtmpaddr noprefixroute
       valid_lft 86341sec preferred_lft 14341sec
    inet6 fe80::2799:4488:5d7a:9399/64 scope link
       valid_lft forever preferred_lft forever
tdw@Web106:/var/www/html$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:52:38:65 brd ff:ff:ff:ff:ff:ff
    altname enx080027523865
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
       valid_lft 83513sec preferred_lft 72713sec
    inet6 fd17:625c:f037:2:a00:27ff:fe52:3865/64 scope global dynamic mngtmpaddr proto kernel_ra
       valid_lft 86329sec preferred_lft 14329sec
    inet6 fd17:625c:f037:2:294:a5d2:1a99:1b56/64 scope global dynamic mngtmpaddr noprefixroute
       valid_lft 86329sec preferred_lft 14329sec
    inet6 fe80::2799:4488:5d7a:9399/64 scope link
       valid_lft forever preferred_lft forever
tdw@Web106:/var/www/html$
```

4. How do you work with the Firewall in Debian? **(Type and explain what each command does)**

- **Examples**:
  - How do you check if the Firewall is running?
    - By using the command `sudo ufw status`
  - How do you disable the Firewall?
    - By using the command `sudo ufw disable`
  - How do you add Apache to the Firewall?
    - By using the command `sudo ufw allow "Apache Full"`

5. What different commands do we use to work with Apache? **(Type the command and include a screenshot!)**

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

- The command is: `sudo systemctl status apache2`

2. What is the command you use to stop Apache?

- The command is: `sudo systemctl stop apache2`

3. What is the command you use to restart Apache?

- The command is: `sudo systemctl restart apache2`

4. What is the command used to test Apache configuration?

- The command is: `sudo apachectl1 -t`

5. What is the command used to check the installed version of Apache?
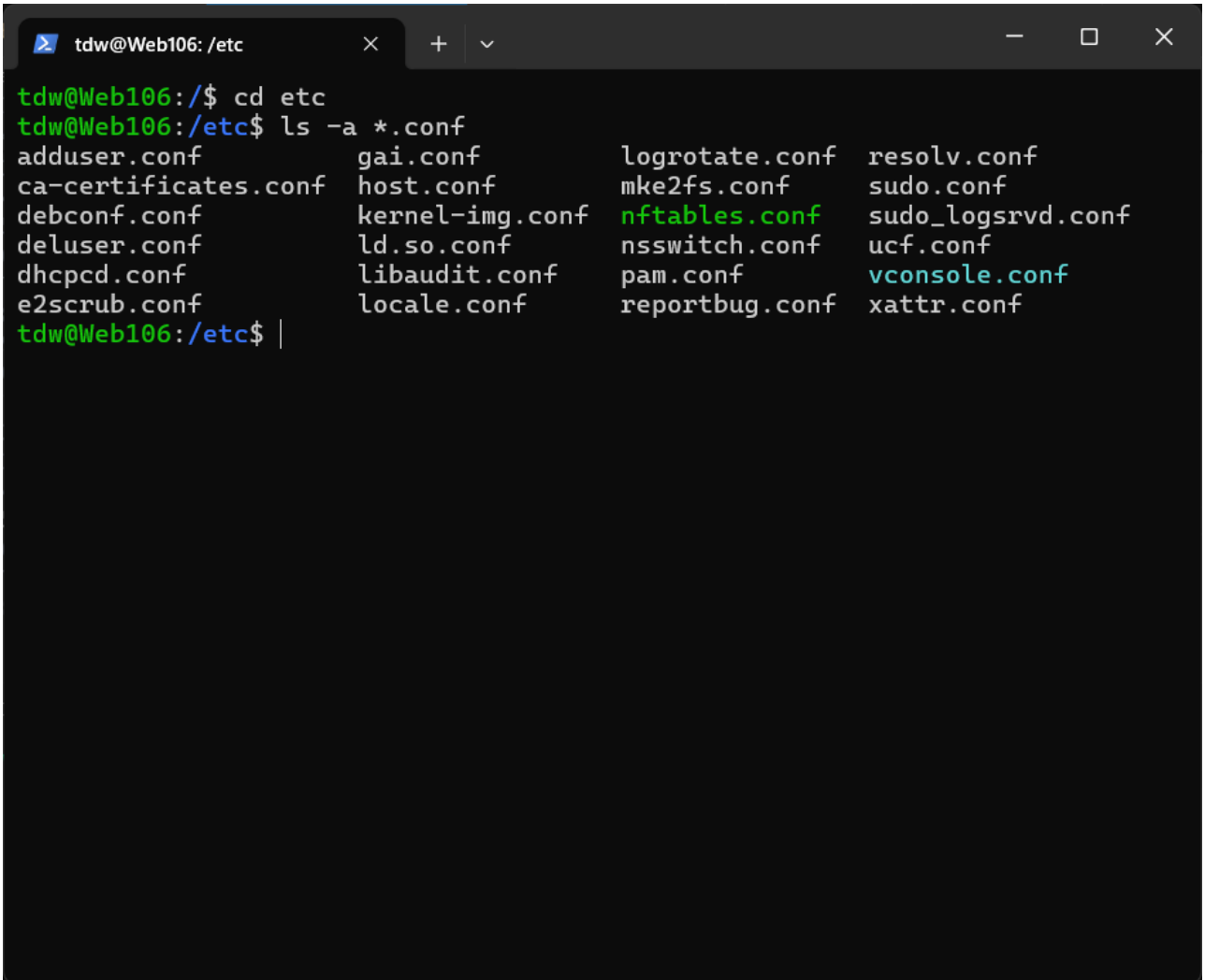
- The command is: `sudo apache2 -v`

6. What are some common configuration files for Apache?

- The command is: `ls -a *.conf`

```
tdw@Web106: /etc                                    ×    +    ∨                              —    □    ✕

tdw@Web106:/$ cd etc
tdw@Web106:/etc$ ls -a *.conf
adduser.conf            gai.conf            logrotate.conf    resolv.conf
ca-certificates.conf    host.conf           mke2fs.conf       sudo.conf
debconf.conf            kernel-img.conf     nftables.conf     sudo_logsrvd.conf
deluser.conf            ld.so.conf          nsswitch.conf     ucf.conf
dhcpcd.conf             libaudit.conf       pam.conf          vconsole.conf
e2scrub.conf            locale.conf         reportbug.conf    xattr.conf
tdw@Web106:/etc$ |
```
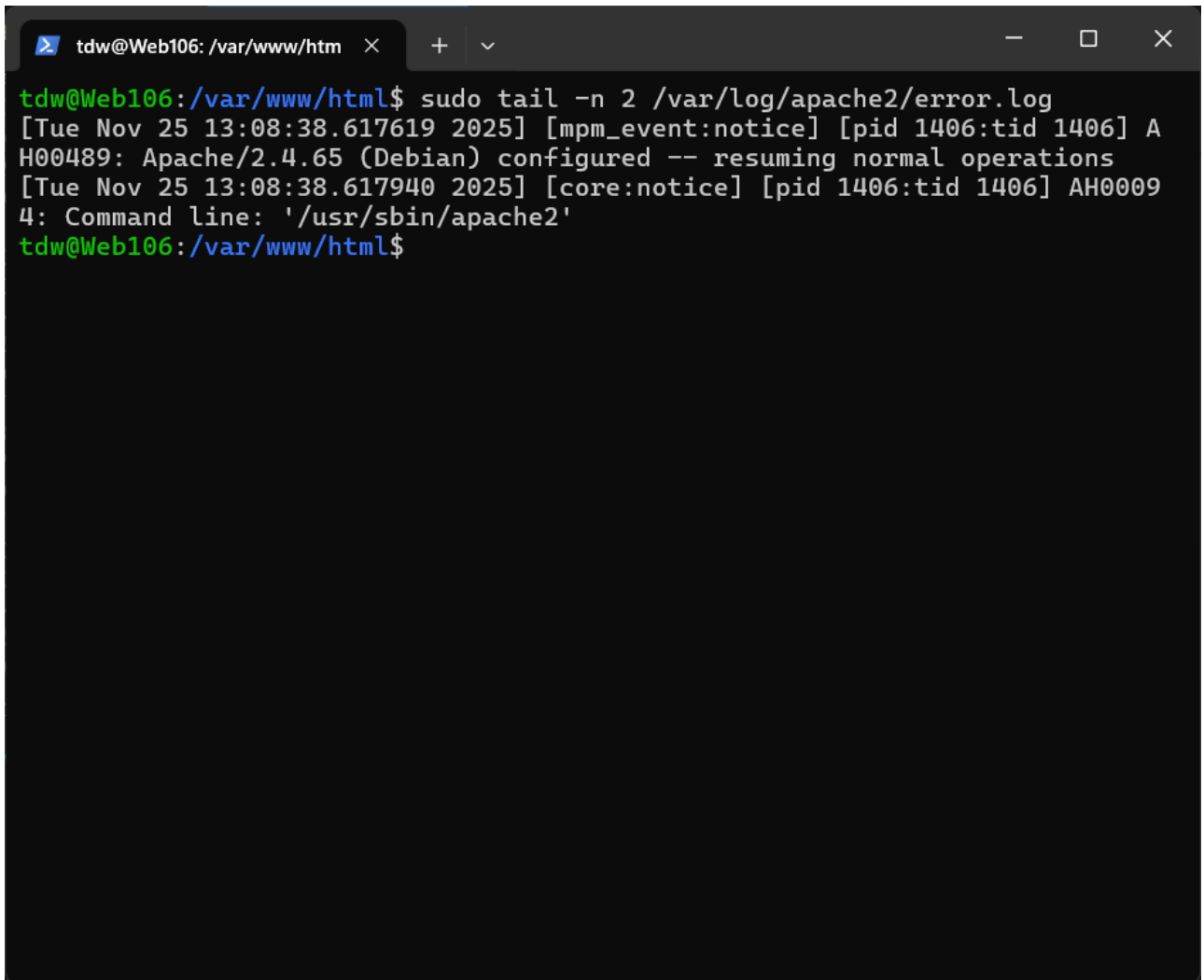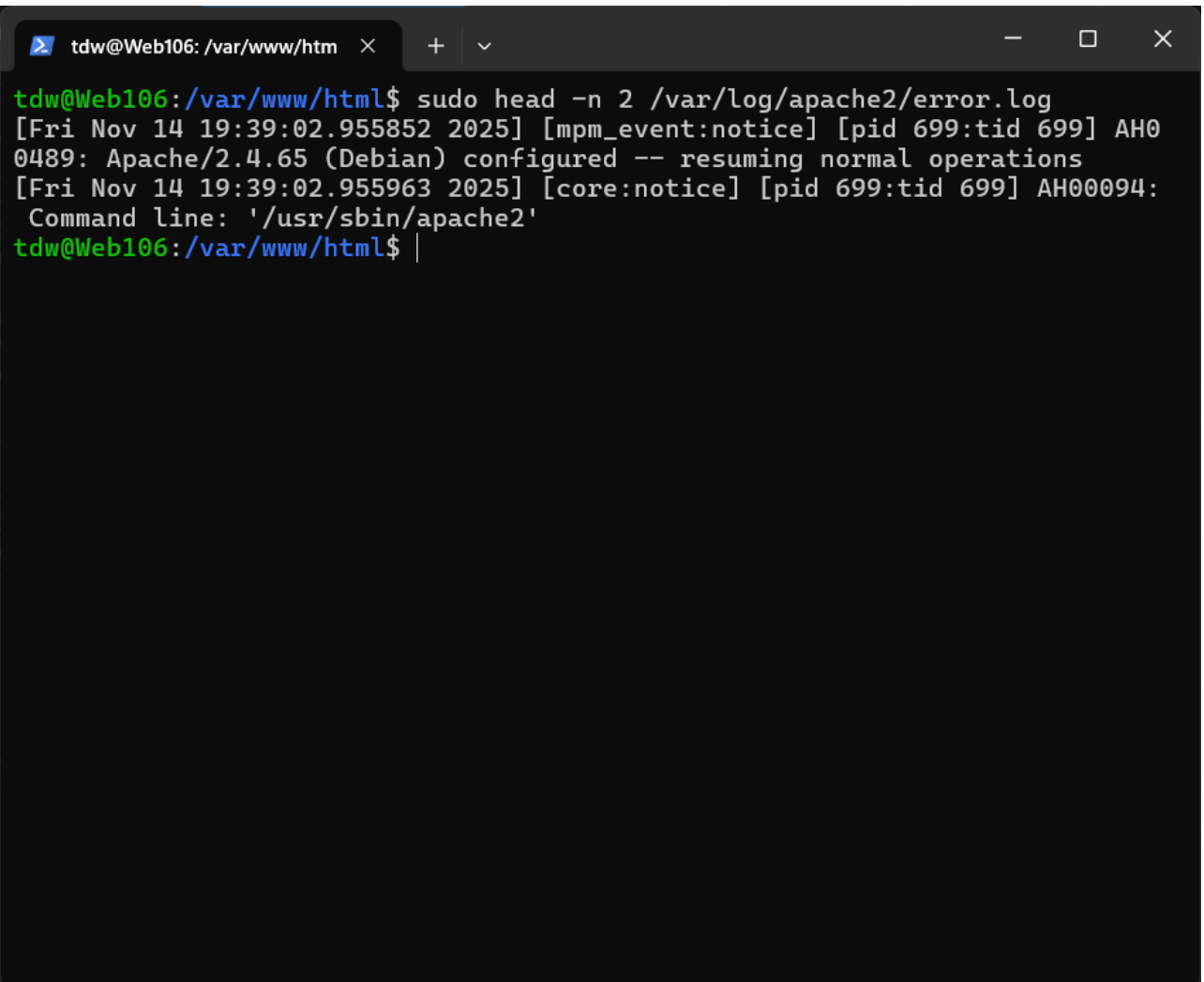
7. Where does Apache store logs?

- The directory is: `do tail -n 2 /var/log/apache2/error.log`

```
tdw@Web106: /var/www/htm    ×    +    ∨                                     —    □    ×

tdw@Web106:/var/www/html$ sudo tail -n 2 /var/log/apache2/error.log
[Tue Nov 25 13:08:38.617619 2025] [mpm_event:notice] [pid 1406:tid 1406] A
H00489: Apache/2.4.65 (Debian) configured -- resuming normal operations
[Tue Nov 25 13:08:38.617940 2025] [core:notice] [pid 1406:tid 1406] AH0009
4: Command line: '/usr/sbin/apache2'
tdw@Web106:/var/www/html$
```

8. What are some basic commands we can use to review logs?

- The command is: sudo head -n 2 /var/log/apache2/error.log