

Deliverable 2 Submission

Server Specifications

Tools

Ubuntu 20.04 LTS106 (VSCode_Installed_HW_Uploaded)

Running

Ubuntu Server

Running

NewAddSettingsDiscardShow

General

Name: Ubuntu Server
Operating System: Ubuntu (64-bit)

System

Base Memory: 2048 MB
Processors: 2
Boot Order: Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization

Display

Video Memory: 128 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage

Controller: IDE
IDE Secondary Device 0: [Optical Drive] Empty
Controller: SATA
SATA Port 0: Ubuntu Server.vdi (Normal, 10.00 GB)

Audio

Disabled

Network

Adapter 1: Intel PRO/1000 MT Desktop (NAT)

USB

USB Controller: OHCI, EHCI
Device Filters: 0 (0 active)

Shared folders

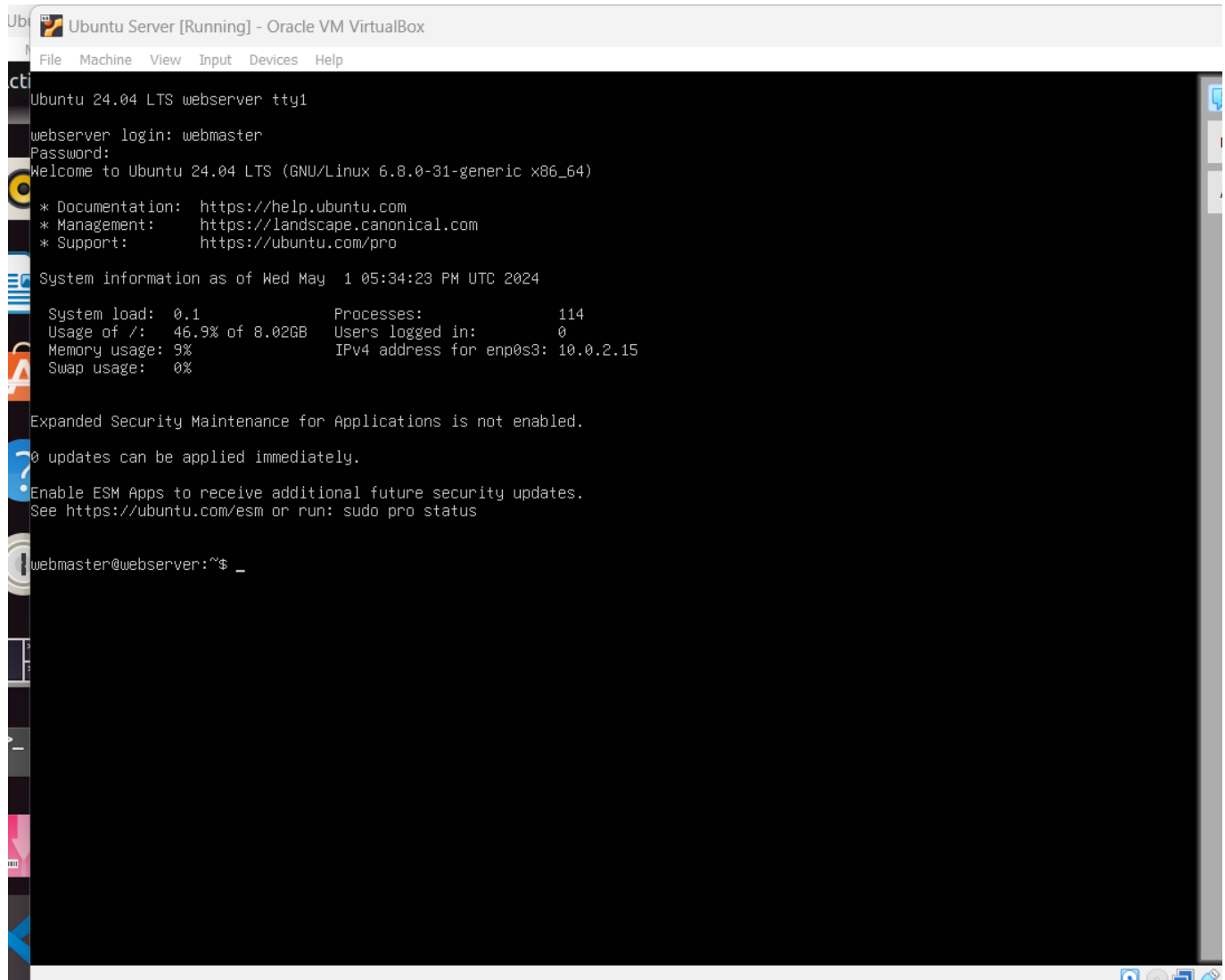
None

Description

Host name: webserv
user name: webmaster
password: pccc

Preview

Ubuntu Login Screen



```
Ubuntu Server [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Ubuntu 24.04 LTS webserver tty1
webserver login: webmaster
Password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-31-generic x86_64)

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

System information as of Wed May  1 05:34:23 PM UTC 2024

System load:  0.1          Processes:            114
Usage of /:   46.9% of 8.02GB Users logged in:          0
Memory usage: 9%          IPv4 address for enp0s3: 10.0.2.15
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

webmaster@webserver:~$ _
```

Questions

3. **What is the IP address of your Ubuntu Server Virtual Machine?**
 - 10.0.2.15
4. **How do you enable the Ubuntu Firewall?**
 - `sudo ufw enable`
5. **How do you check if the Ubuntu Firewall is running?**
 - `sudo ufw status`
6. **How do you disable the Ubuntu Firewall?**
 - `sudo ufw disable`
7. **How do you add Apache to the Firewall?**
 - `sudo ufw allow 'Apache'`
8. **What is the command you used to install Apache?**
 - `sudo apt install apache2 -y`
9. **What is the command you use to check if Apache is running?**
 - `systemctl status apache2 --no-pager`
10. **What is the command you use to stop Apache?**
 - `sudo systemctl stop apache2`
11. **What is the command you use to restart Apache?**
 - `sudo systemctl restart apache2`

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

- `sudo apachectl configtest`

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

- `apache2 -v`

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

- `-E`
 - sends error messages during server startup to a file.
- `-t`
 - Runs syntax tests for config files only. Exits with a return code of 0 for passing or a code not equal to 0 which means there is an error.
- `-X`
 - Runs apache2 in debug mode.

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

- You can use log files to ensure there are no errors, or that if there is an error, you can read the log to determine what is is and try to resolve it. I created a log file here and read it using the `cat` command.

```
webmaster@webserver:~$ apache2 -E /var/www/mywebsite/log.txt
webmaster@webserver:~$ cat /var/www/mywebsite/log.txt
[Wed May 01 18:01:26.547673 2024] [core:warn] [pid 1317] AH00111: Config variable ${APACHE_RUN_DIR} is not defined
apache2: Syntax error on line 80 of /etc/apache2/apache2.conf: DefaultRuntimeDir must be a valid directory, absolute or relative to ServerRoot
webmaster@webserver:~$
```