

Deliverable 1

Concepts I don't understand:

- Web Server - A Web server can be hardware or software, or both of them working together
- UFW firewall - is a frontend for iptables that provides a framework for managing netfilter.
- Systemd - is a system and service manager for Unix like operating systems

Answer the following questions:

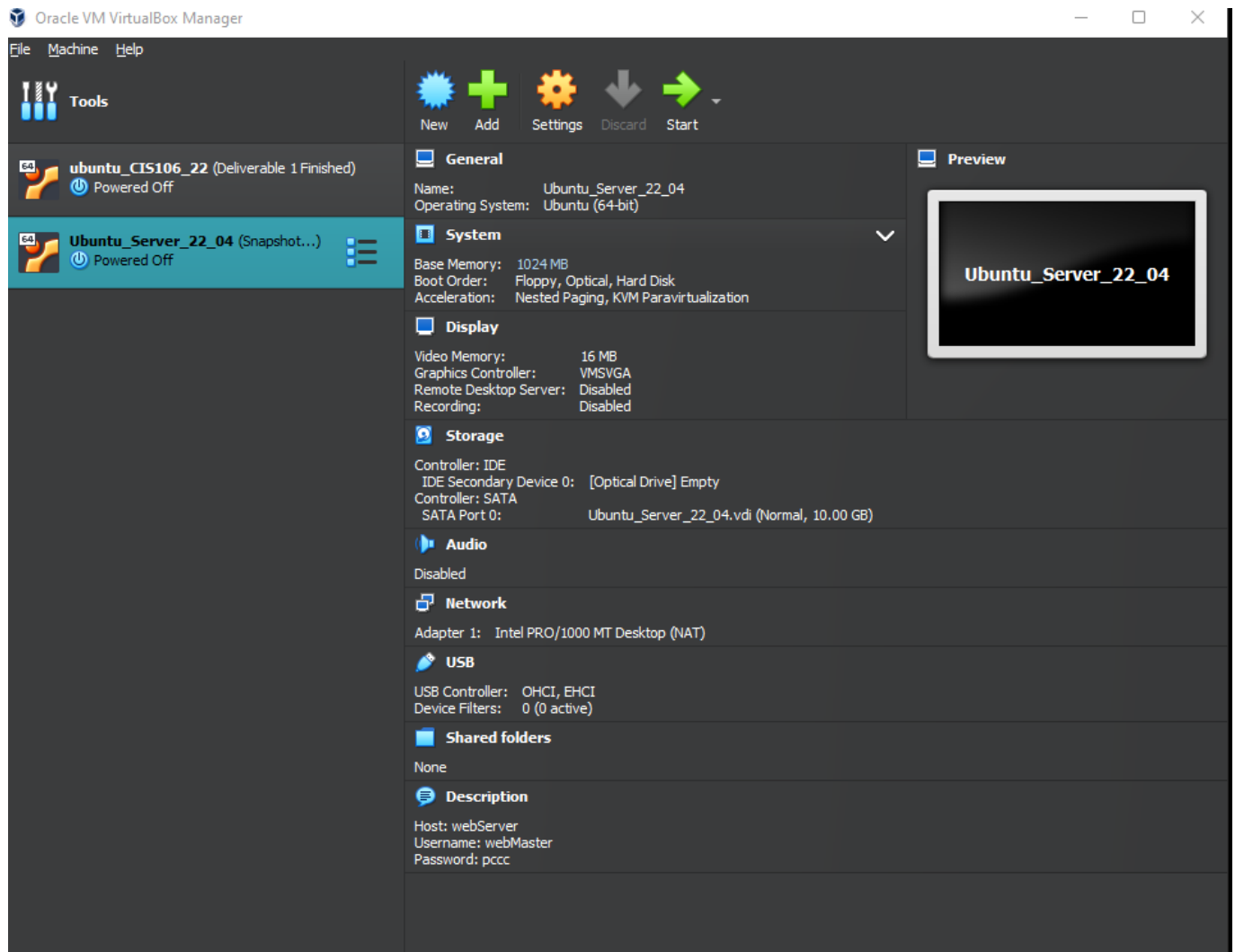
What is a web server? Hardware and software side *A Web server can be hardware or software, or both of them working together.*

1. The hardware side is a computer that store web server software, and components (HTML, CSS, JavaScript).
2. Software side is the software itself, which controls how web users access hosted files. **What are some different web server applications?**

- Apache Tomcat
- Oracle WebLogic
- Resin
- IBM WebSphere

What is virtualization? Virtualization is a modern technology that lets you simulate a virtual machine inside a physical machine. There are generally two types of virtualization; server-side virtualization, and client-side virtualization. **What is virtualbox?** Virtualbox is a virtualization product that is consider a type 2 virtualization. Virtualbox is a open source under the GPL version 2. **What is a virtual machine?** A virtual machine is a computer system that is created based on another physical machine software. **What is Ubuntu Server?** Ubuntu server is a larger set of Ubuntu products, that differ from each other a little but from Ubuntu desktop. **What is a firewall?** Firewall is a network that provide protection against cyber attacks by shielding your computer or network **What is SSH?** SSH means Secure Shell or Secure Socket Shell, which is a network protocol that gives user a secure way to access a computer.

Final Project



```

Ubuntu 22.04.1 LTS webserver tty1

webserver login: webmaster
Password:
pc
Login incorrect
webserver login: webmaster
Password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-56-generic x86_64)

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

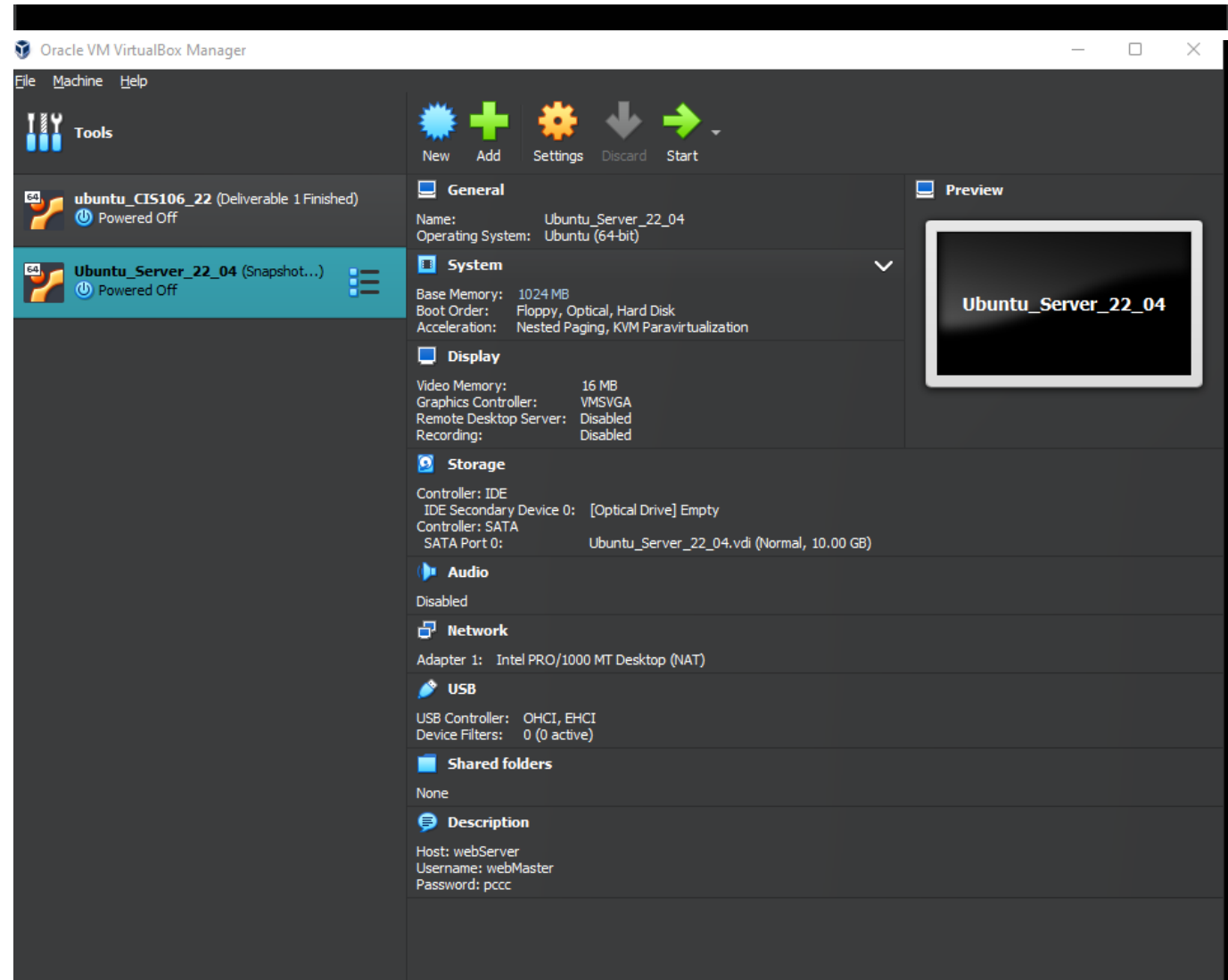
System information as of Wed Dec 21 11:47:02 PM UTC 2022

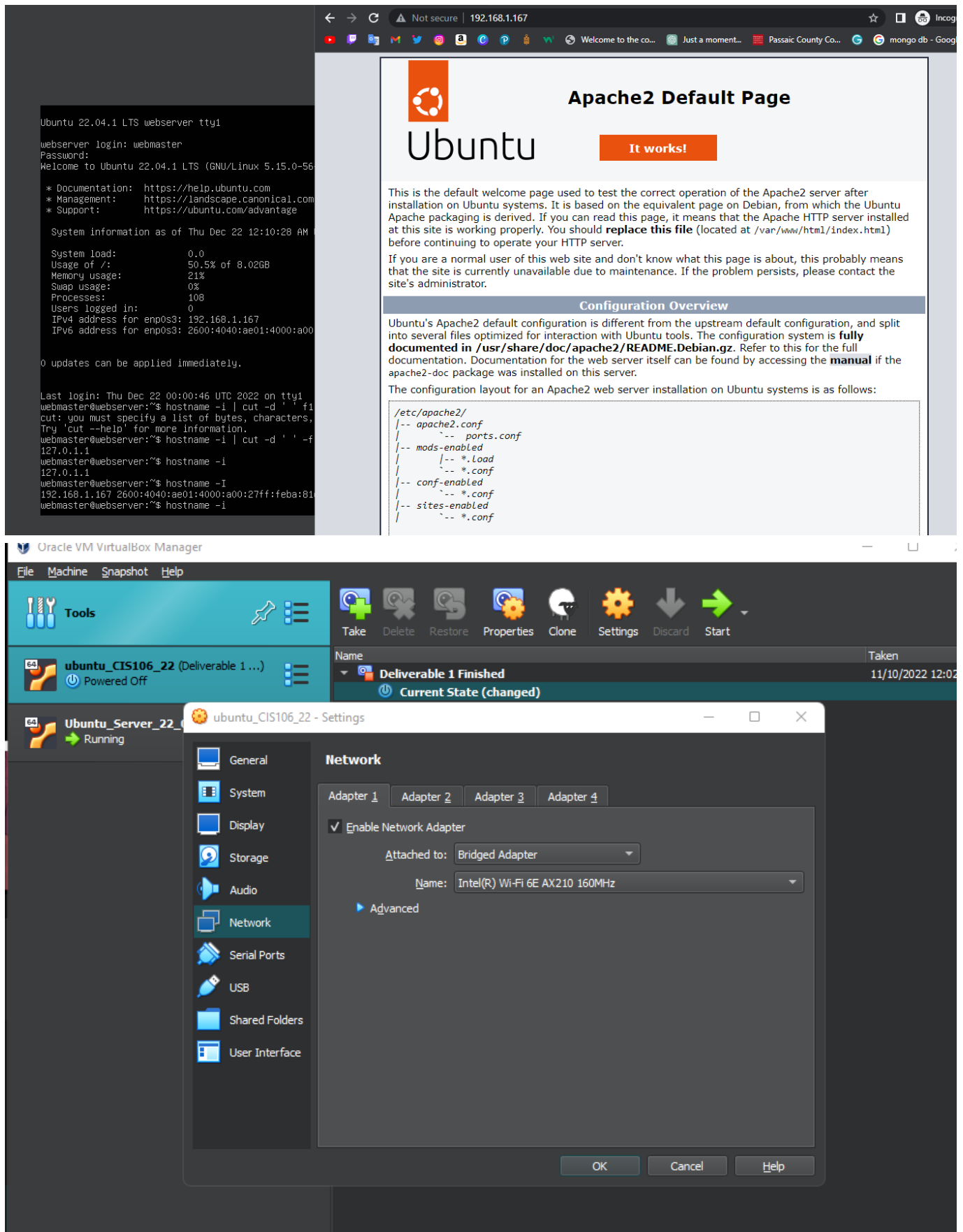
System load:  0.0               Processes:            105
Usage of /:   50.4% of 8.02GB    Users logged in:     0
Memory usage: 21%               IPv4 address for enp0s3: 10.0.2.15
Swap usage:   0%

0 updates can be applied immediately.

Last login: Wed Dec 21 23:36:08 UTC 2022 on tty1
webmaster@webserver:~$ s_

```



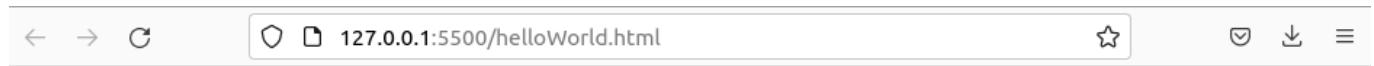


Still give me problems after I checked all the numbers one by one and the spaces too

```
eth0:
  addresses:
    - 192.168.1.173/24
  nameservers:
    addresses: [1.1.1.1, 8.8.8.8, 8.8.4.4]
  routes:
    - to: default
      via: 192.168.1.1
```

```
webmaster@webserver:~$ ip addr | grep "inet" | head -3 | tail -1
    inet 192.168.1.173/24 metric 100 brd 192.168.1.255 scope global dynamic
webmaster@webserver:~$ ip route | head -1
default via 192.168.1.1 dev enp0s3 proto dhcp src 192.168.1.173 metric 100
webmaster@webserver:~$ sudo netplan apply
webmaster@webserver:~$ ip addr | grep "inet" | head -3 | tail -1
```

Here is the website



Hello World, this final project is a mess

```
eth0:
  addresses:
    - 192.168.1.173/24
  nameservers:
    addresses: [1.1.1.1, 8.8.8.8, 8.8.4.4]
  routes:
    - to: default
      via: 192.168.1.1

webmaster@webserver:~$ ip addr | grep "inet" | head -3 | tail -1
    inet 192.168.1.173/24 metric 100 brd 192.168.1.255 scope global dynam
webmaster@webserver:~$ ip route | head -1
default via 192.168.1.1 dev enp0s3 proto dhcp src 192.168.1.173 metric 100
webmaster@webserver:~$ cat /etc/passwd | grep root
```