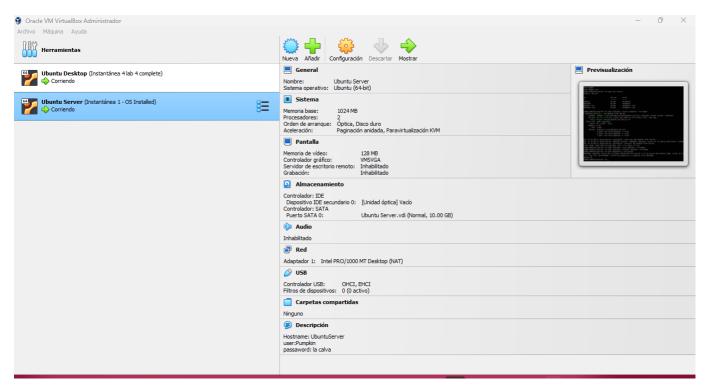
Deliverable 2.md 2023-12-21

Deliverable 2 Submission

What are the server hardware specifications (virtual machine settings)? Take a screenshot - don't type it!



What is Ubuntu server log in screen? Take screenshot - do not type it!

Deliverable 2.md 2023-12-21

```
Ubuntu Server (Instantánea 1 - OS Installed) [Corriendo] - Oracle VM VirtualBox
               Ver Entrada Dispositivos Ayuda
Ubuntu 22.04.3 LTS ubuntuserver tty1
ubuntuserver login: [   27.186857] cloud–init[849]: Cloud–init v. 23.3.3–OubuntuO~22.04.1 running
odules:config' at Tue, 19 Dec 2023 02:42:47 +0000. Up 27.03 seconds.
    28.168517] cloud-init[885]: Cloud-init v. 23.3.3-OubuntuO~22.04.1 running 'modules:final' at Tue
  19 Dec 2023 02:42:48 +0000. Up 28.11 seconds.
28.330490] cloud–init[885]: Cloud–init v. 23.3.3–OubuntuO~22.04.1 finished at Tue, 19 Dec 2023 0
2:42:49 +0000. Datasource DataSourceNone. Up 28.31 seconds
[ 28.333681] cloud–init[885]: 2023–12–19 02:42:49,127 – cc_final_message.py[WARNING]: Used fallbac
  datasource
ubuntuserver login: pumpkin
Password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0–91–generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                     https://landscape.canonical.com
 * Support:
                     https://ubuntu.com/advantage
  System information as of Tue Dec 19 02:43:29 AM UTC 2023
  System load: 0.955078125
                                                                    114
                                       Processes:
  Usage of /:
                  52.5% of 8.02GB
                                       Users logged in:
  Memory usage: 22%
                                       IPv4 address for enp0s3: 10.0.2.15
  Swap usage:
Expanded Security Maintenance for Applications is not enabled.
 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: Tue Dec 19 02:26:59 UTC 2023 on tty1
pumpkin@ubuntuserver:~$
```

What is the IP address of your Ubuntu Server Virtual Machine?

```
10.0.2.15 IPv4 address for enp0s3: 10.0.2.15
```

How do you enable the Ubuntu Firewall?

```
Archivo Máquina Ver Entrada Dispositivos Ayuda
pumpkin@ubuntuserver:~$ sudo ufw enable
Firewall is active and enabled on system startup
pumpkin@ubuntuserver:~$
```

How do you check if the Ubuntu Firewall is running?

```
pumpkin@ubuntuserver:~$ sudo ufw status
              Status: active
               Τo
                                           Action
                                                        From
              Apache
                                           ALLOW
                                                        Anywhere
                                                        Anywhere
              OpenSSH
                                           ALLOW
              Apache (v6)
                                           ALLOW
                                                        Anywhere (v6)
                                           ALLOW
              OpenSSH (v6)
                                                        Anywhere (v6)
              pumpkin@ubuntuserver:~$ .
sudo ufw status
```

Deliverable 2.md 2023-12-21

How do you disable the Ubuntu Firewall?

```
Firewall stopped and disabled on system startup
              pumpkin@ubuntuserver:~$
sudo ufw disable
```

How do you add Apache to the Firewall?

sudo ufw allow 'Apache'

What is the command you used to install Apache?

sudo apt install apache2 -y

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

sudo systemctl status apache2 --no-pager

```
pumpkin@ubuntuserver:~$ sudo 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 Tue 2023-12-19 02:48:21 UTC; 7min ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 1598 (apache2)
      Tasks: 55 (limit: 1012)
     Memory: 5.0M
        CPŪ: 115ms
     CGroup: /system.slice/apache2.service
               –1598 /usr/sbin/apache2 –k start
              —1599 /usr/sbin/apache2 –k start
—1600 /usr/sbin/apache2 –k start
Dec 19 02:48:21 ubuntuserver systemd[1]: Starting The Apache HTTP Server...
Dec 19 02:48:21 ubuntuserver apachectl[1597]: AHOO558: apache2: Could not reliably determine t…ssage
Dec 19 O2:48:21 ubuntuserver systemd[1]: Started The Apache HTTP Server.
Hint: Some lines were ellipsized, use –l to show in full.
pumpkin@ubuntuserver:~$ _
```

What is the command you use to stop Apache?

sudo systemctl stop apache2 --no-pager

What is the command you use to restart Apache?

```
sudo systemctl restart apache2 --no-pager
```

```
pumpkin@ubuntuserver:~$ sudo systemctl stop apache2 ––no–pager
pumpkin@ubuntuserver:~$ sudo systemctl restart apache2 ––no–pager
pumpkin@ubuntuserver:~$ _
```

What is the command used to test Apache configuration?

sudo apache2ctl configtest

```
pumpkin@ubuntuserver:~$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified
.1.1. Set the 'ServerName' directive globally to suppress this message
Syntax OK
oumokin@ubuntuserver:~$
```

Deliverable 2.md 2023-12-21

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

```
oumpkin@ubuntuserver:~$ apache2 -v

Server version: Apache/2.4.52 (Ubuntu)

Server built: 2023–10–26T13:44:44

bumpkin@ubuntuserver:~$ _

apache2-v
```

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

```
pumpkin@ubuntuserver:~$ sudo tail –n 20 /var/log/apache2/error.log
[sudo] password for pumpkin:
[Tue Dec 19 02:48:21.222728 2023] [mpm_event:notice] [pid 1598:tid 140050487269248] AH00489: Apache/
2.4.52 (Ubuntu) configured –– resuming normal operations
[Tue Dec 19 02:48:21.222970 2023] [core:notice] [pid 1598:tid 140050487269248] AH00094: Command line
: '/usr/sbin/apache2'
[Tue Dec 19 02:57:39.568847 2023] [mpm_event:notice] [pid 1598:tid 140050487269248] AH00492: caught
SIGWINCH, shutting down gracefully
[Tue Dec 19 02:59:19.889903 2023] [mpm_event:notice] [pid 2171:tid 140509214734208] AH00489: Apache/
2.4.52 (Ubuntu) configured –– resuming normal operations
[Tue Dec 19 02:59:19.890086 2023] [core:notice] [pid 2171:tid 140509214734208] AH00094: Command line
: '/usr/sbin/apache2'
```