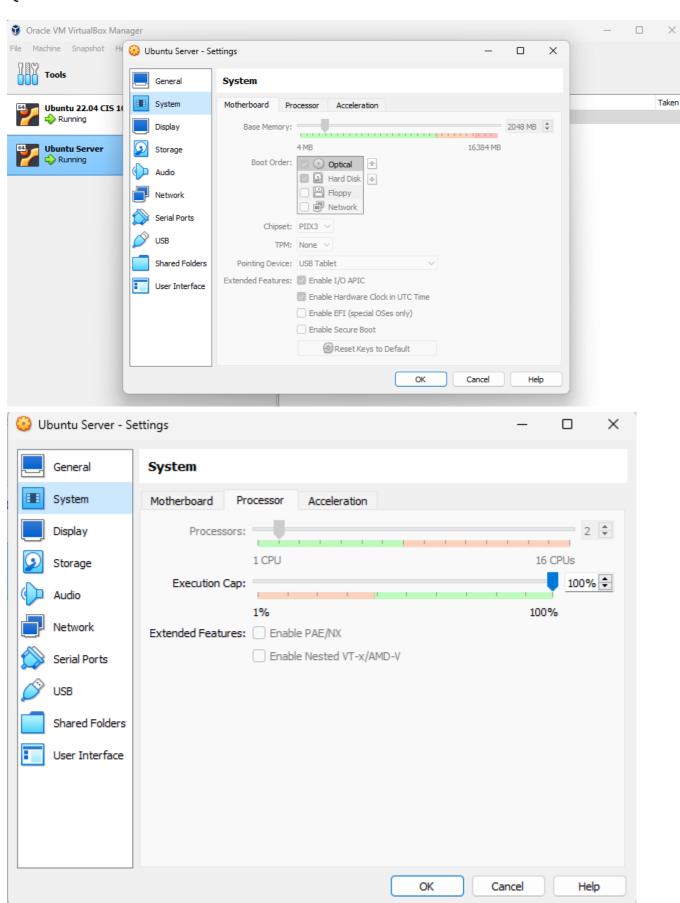
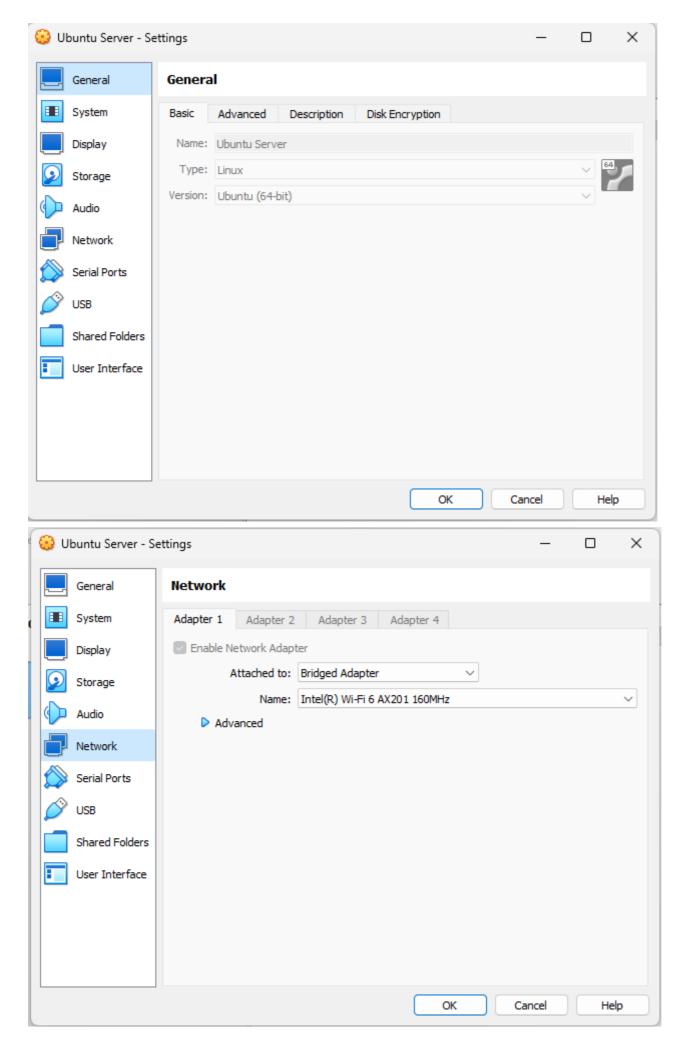
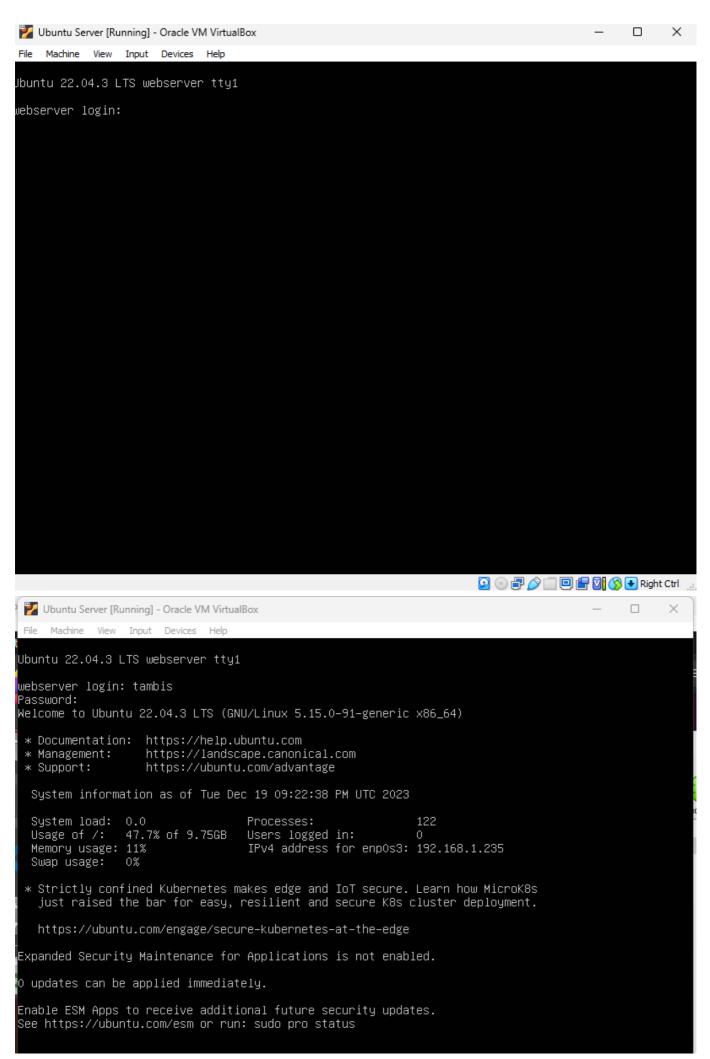
name: Tambi Samkough semester: Fall 23 class: cis106

# Questions







```
Last login: Tue Dec 19 20:52:19 UTC 2023 from 192.168.1.65 on pts/0
tambis@webserver:~$ _

[Record of the content of the cont
```

#### Question 3

```
tambis@webserver:~$ hostname -I
192.168.1.235
tambis@webserver:~$
```

#### Question 4

```
tambis@webserver:~$ sudo ufw enable
[sudo] password for tambis:
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
tambis@webserver:~$
```

### Question 5

```
tambis@webserver:~$ sudo ufw status
Status: active
To
                            Action
                                        From
Apache
                            ALLOW
                                        Anywhere
OpenSSH
                                        Anywhere
                            ALLOW
Apache (v6)
                            ALLOW
                                        Anywhere (v6)
OpenSSH (v6)
                            ALLOW
                                        Anywhere (v6)
tambis@webserver:~$
```

#### Question 6

```
tambis@webserver:~$ sudo ufw disable
Firewall stopped and disabled on system startup
tambis@webserver:~$
```

#### Question 7

```
tambis@webserver:~$ sudo ufw allow 'Apache'
Skipping adding existing rule
Skipping adding existing rule (v6)
tambis@webserver:~$
```

```
tambis@webserver:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.7).
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
tambis@webserver:~$
```

#### Question 9

```
tambis@webserver:~$ 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 21:22:09 UTC; 10min ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 704 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 784 (apache2)
      Tasks: 55 (limit: 2220)
     Memory: 7.6M
        CPU: 32ms
     CGroup: /system.slice/apache2.service
              —784 /usr/sbin/apache2 -k start
               -785 /usr/sbin/apache2 -k start
              └─786 /usr/sbin/apache2 -k start
Dec 19 21:22:09 webserver systemd[1]: Starting The Apache HTTP Server...
Dec 19 21:22:09 webserver systemd[1]: Started The Apache HTTP Server.
tambis@webserver:~$
```

#### Question 10

```
tambis@webserver:~$ sudo systemctl stop apache2
tambis@webserver:~$
```

#### Question 11

```
tambis@webserver:~$ sudo systemctl restart apache2
tambis@webserver:~$
```

#### Question 12

```
tambis@webserver:~$ sudo apache2ctl configtest
Syntax OK
```

#### Question 13

```
tambis@webserver:~$ sudo apache2 -v
Server version: Apache/2.4.52 (Ubuntu)
Server built: 2023-10-26T13:44:44
```

- systemctl Used to control and interact with Linux services via the systemd service manager
- journalctl Used to query and view the logs that are generated by systemd
- apachectl When troubleshooting, this command is used to check Apache's configuration

Apache log files are a very helpful resource for troubleshooting. Generally, any error that you receive in a browser or other HTTP client will have a corresponding entry in Apache's logs. Sometimes Apache will also output errors related to configuration, built-in modules, and other debugging information to its log files.

tambis@webserver:-\$ sudo tail -n 2 /var/log/apache2/error.log

[Tue Dec 19 21:34:29.658606 2023] [mpm\_event:notice] [pid 1833:tid 140395053025152] AH00489: Apac he/2.4.52 (Ubuntu) configured -- resuming normal operations

[Tue Dec 19 21:34:29.658653 2023] [core:notice] [pid 1833:tid 140395053025152] AH00094: Command line: '/usr/sbin/apache2'