





Deliverable 2 Submission


Server Specifications


New

Add

Settings


Discard

Show

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, 15.00 GB)

Audio

Disabled


Network

Adapter 1: Intel PRO/1000 MT Desktop (Bridged Adapter, Realtek 8852BE Wireless LAN WiFi 6 PCI-E NIC)


USB

USB Controller:OHCI, EHCI

Device Filters:0 (0 active)

Shared folders


None

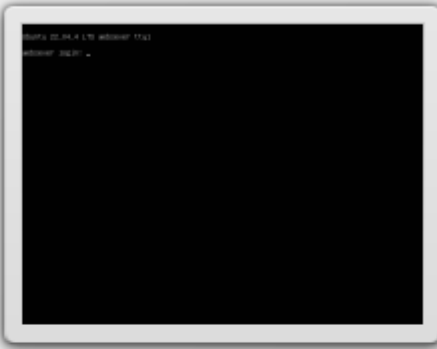
Description

Hostname:Web server

User:Hostmaster

password:pccc

Preview



Ubuntu Login

1 / 4

```
ubuntu-server (Snapshot 1 - os Installed) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Ubuntu 22.04.4 LTS websever tty1

websever login: webmaster
Password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-105-generic x86_64)

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

System information as of Tue Apr 30 01:50:45 PM UTC 2024

System load:  0.005859375      Processes:            119
Usage of /:   49.4% of 9.75GB   Users logged in:      1
Memory usage: 14%              IPv4 address for enp0s3: 192.168.1.177
Swap usage:   0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.

  https://ubuntu.com/engage/secure-kubernetes-at-the-edge

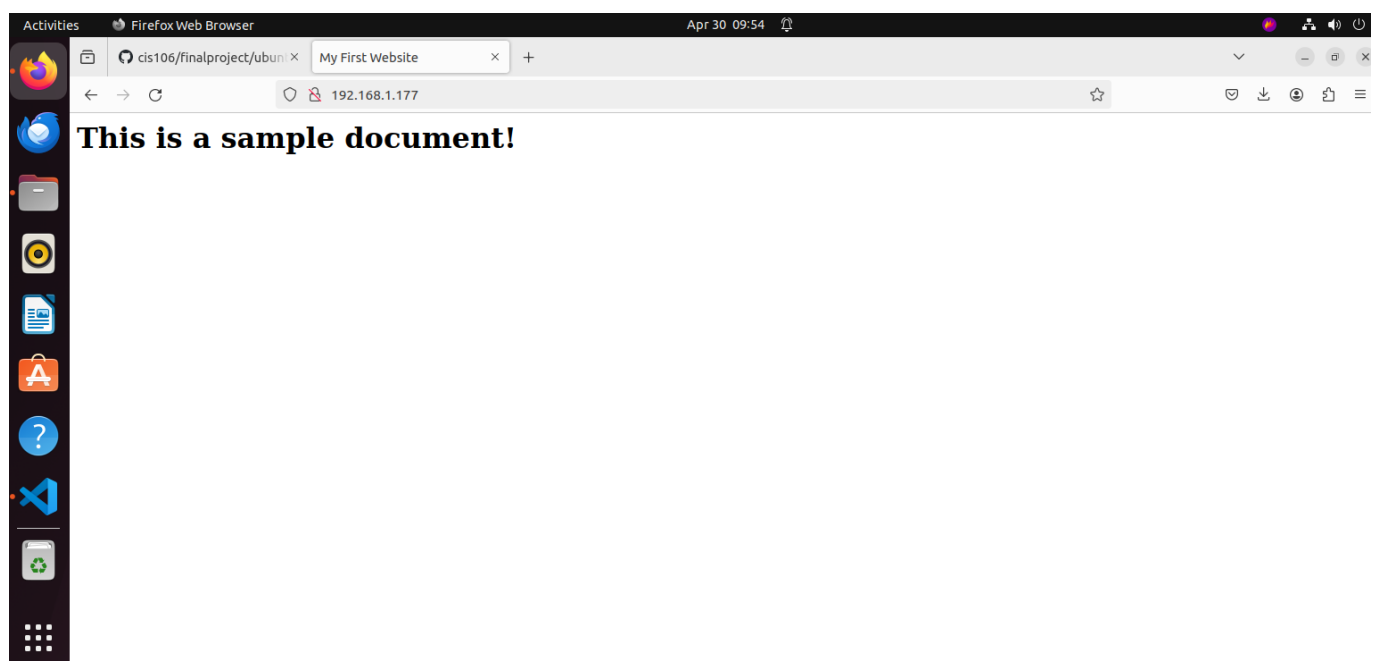
Expanded Security Maintenance for Applications is not enabled.

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

Last login: Mon Apr 29 22:27:41 UTC 2024 from 192.168.1.161 on pts/0
webmaster@websever:~$ _
```

My First Website



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

192.168.1.177

How do you enable the Ubuntu Firewall?

```
sudo ufw enable
```

How do you check if the Ubuntu Firewall is running?

```
sudo ufw status
```

How do you disable the Ubuntu Firewall?

```
sudo ufw disable
```

How do you add Apache to the Firewall?

```
Install allow and enable 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?

```
systemctl status apache2 --no-pager
```

What is the command you use to stop Apache?

```
sudo systemctl stop apache2
```

What is the command you use to restart Apache?

```
sudo systemctl restart apache2
```

What is the command used to test Apache configuration?

```
sudo apache2ctl configtest
```

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

```
systemctl status apache2 --no-pager
```

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

`systemctl` - It is used to control and manage Linux services.

`journalctl` - It is used to display logs generated by systemd services.

`apachectl` - It is used to check the Apache configuration files for any error.

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

Apache logs are files the HTTP server populates with data. The files contain various request and response information, including server activity, errors, and other relevant data.

Apache logs are divided into two main subtypes

- Access logs. These logs contain all server requests.
- Error logs. These logs register server errors and issues with request processing.

Example of an apache access log

```
127.0.0.1 - - [09/Feb/2024:15:36:14 +0100] "GET / HTTP/1.1" 200 3460 "-"  
"Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:120.0) Gecko/20100101 Firefo  
x/120.0"
```

Example of an apache error log

```
[Fri Feb 09 15:35:24.252107 2024] [core:notice] [pid 6672:tid 1396572666  
24384] AH00094: Command line: '/usr/sbin/apache2'
```