

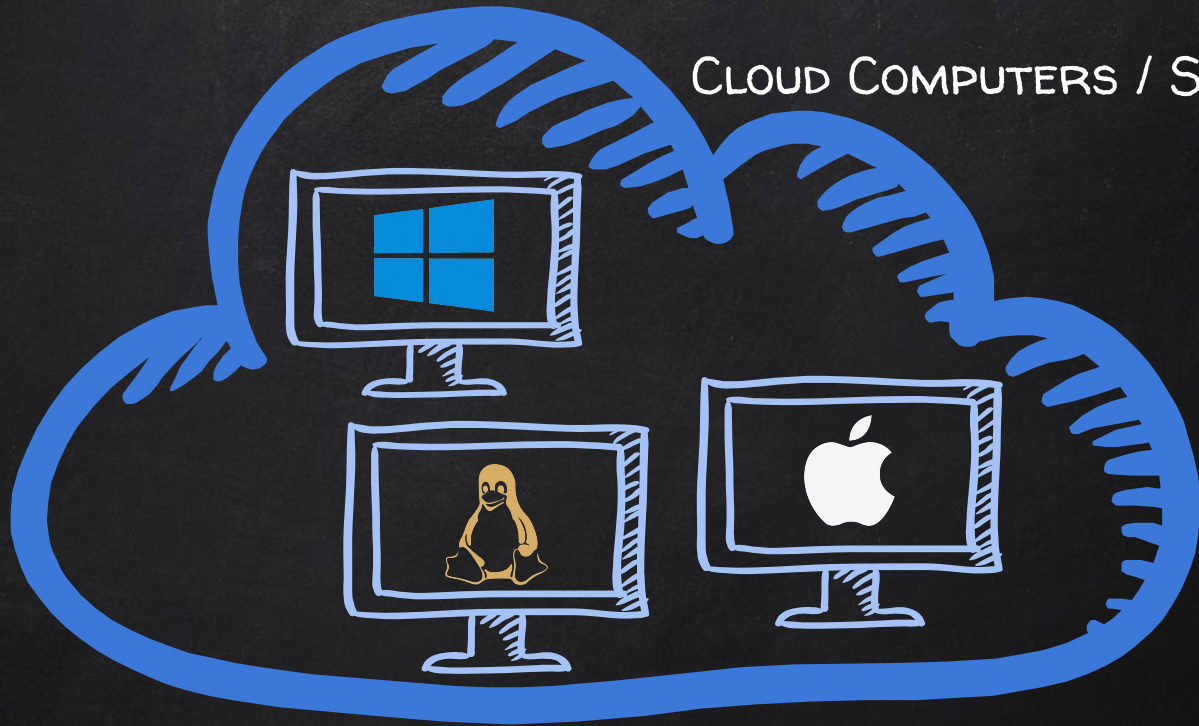


THE
CLOUD



→ **Remote computers** providing services on the internet.

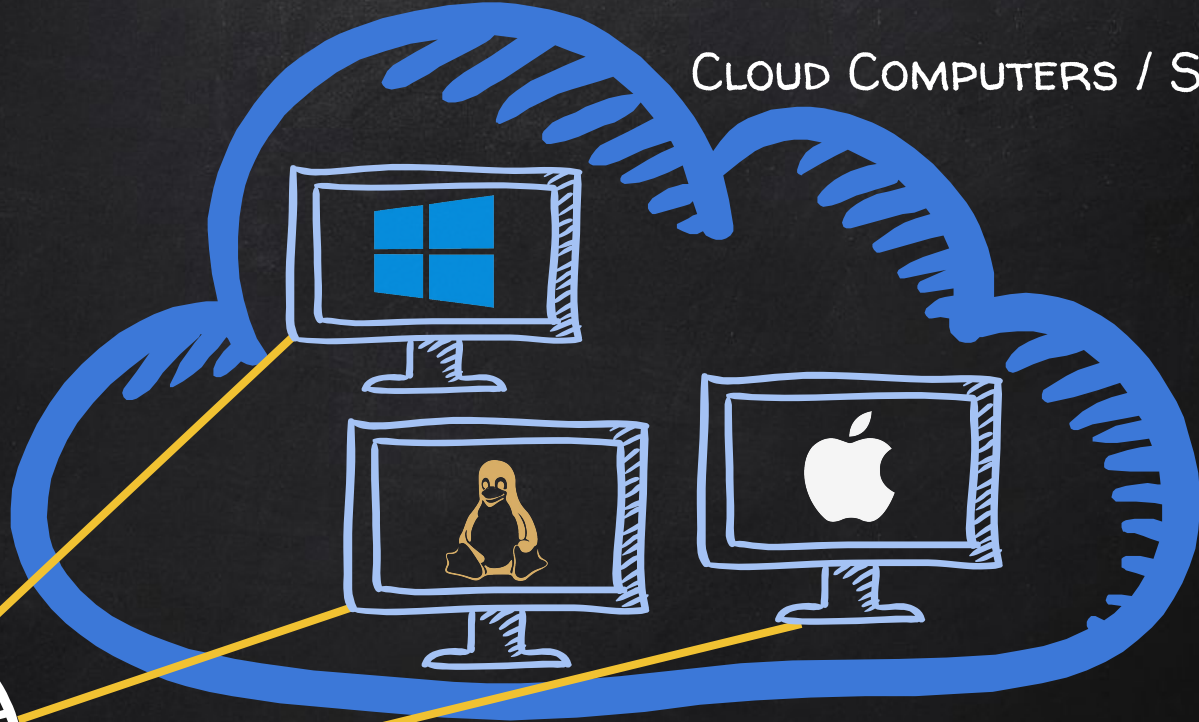
CLOUD COMPUTERS / SERVERS



CLOUD COMPUTERS / SERVERS



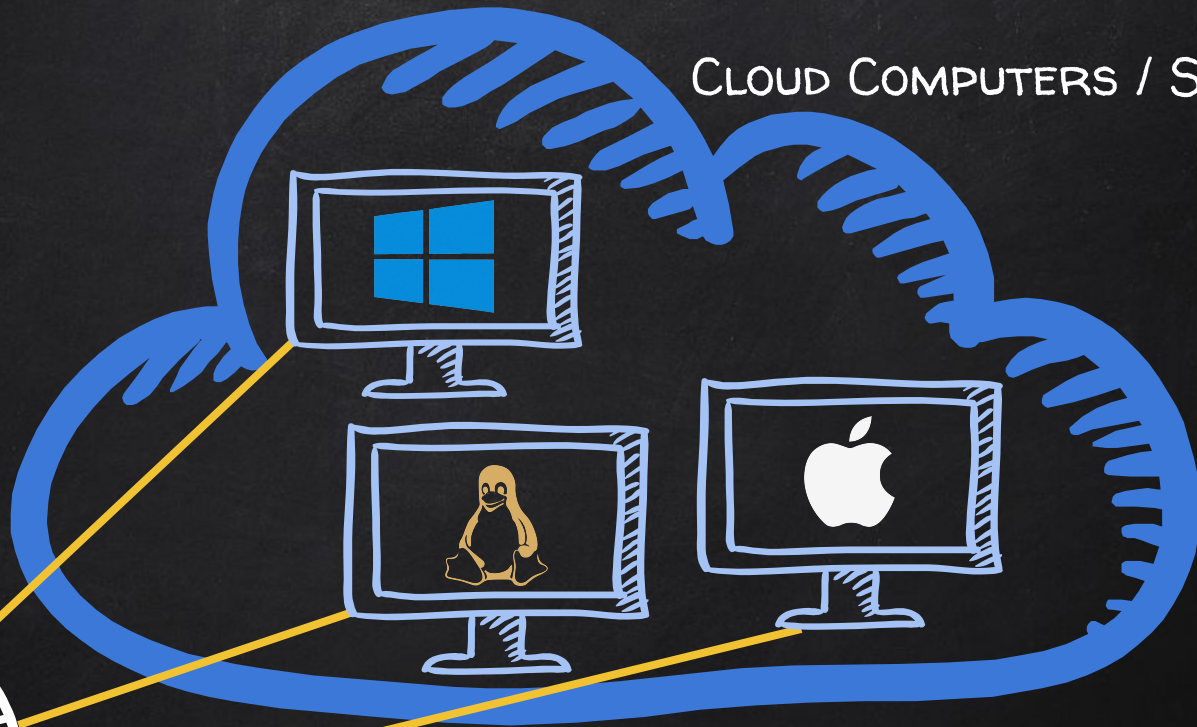
INTERNET



LOCAL NETWORK



CLOUD COMPUTERS / SERVERS

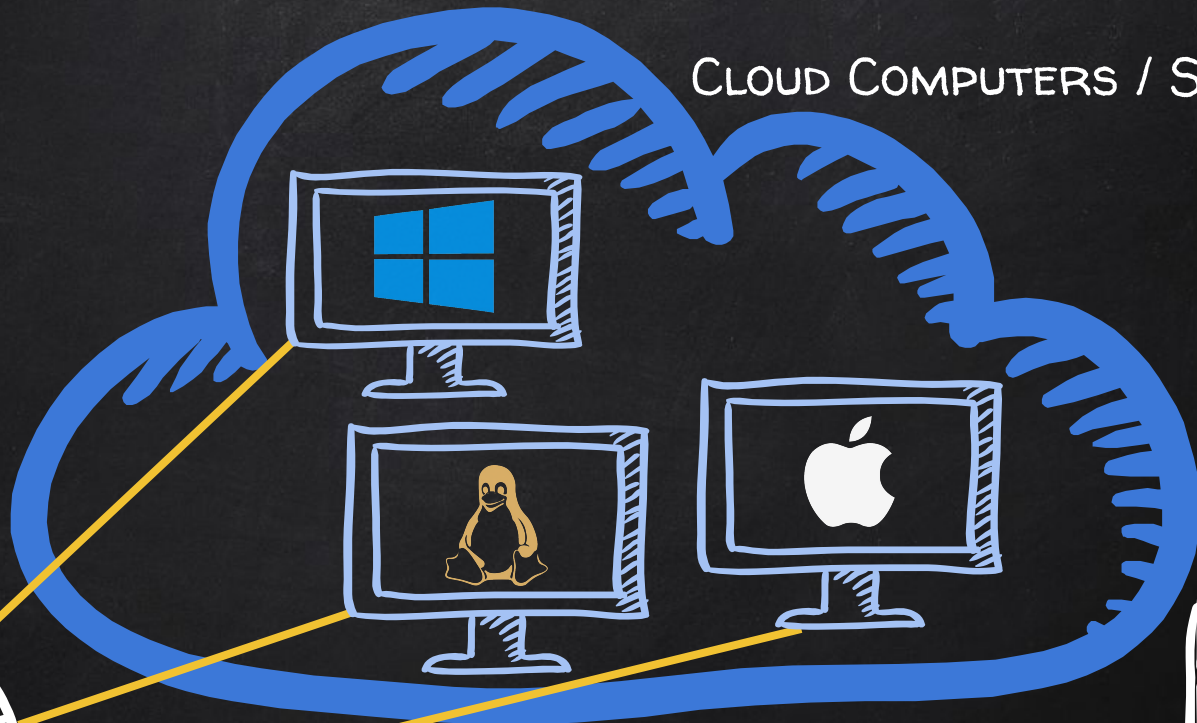


INTERNET

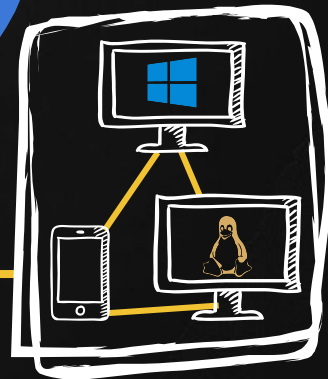
LOCAL NETWORK



CLOUD COMPUTERS / SERVERS



LOCAL NETWORK

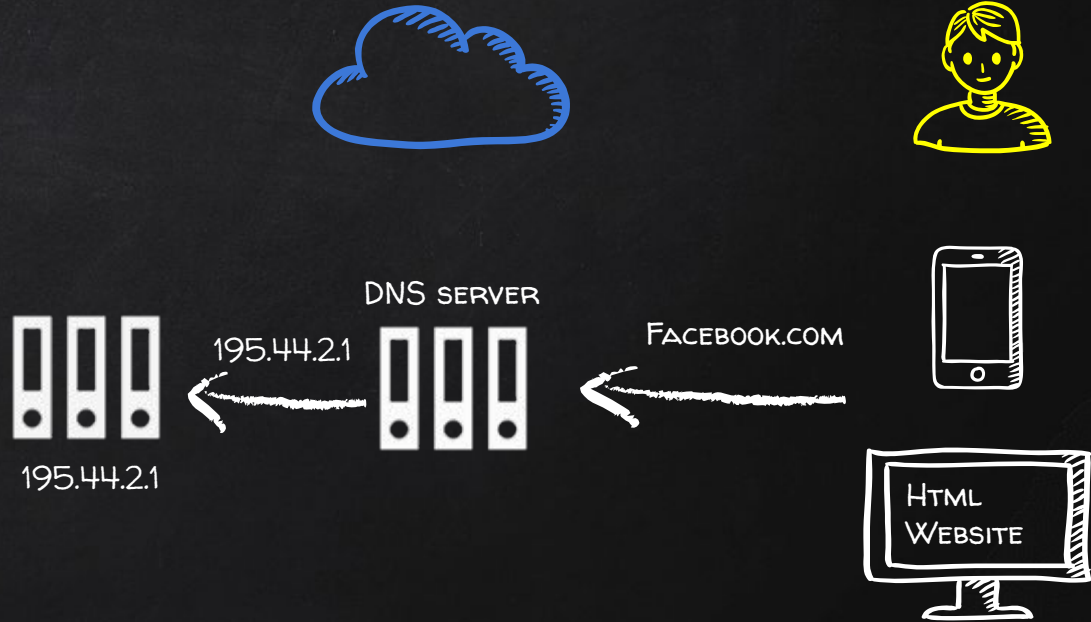


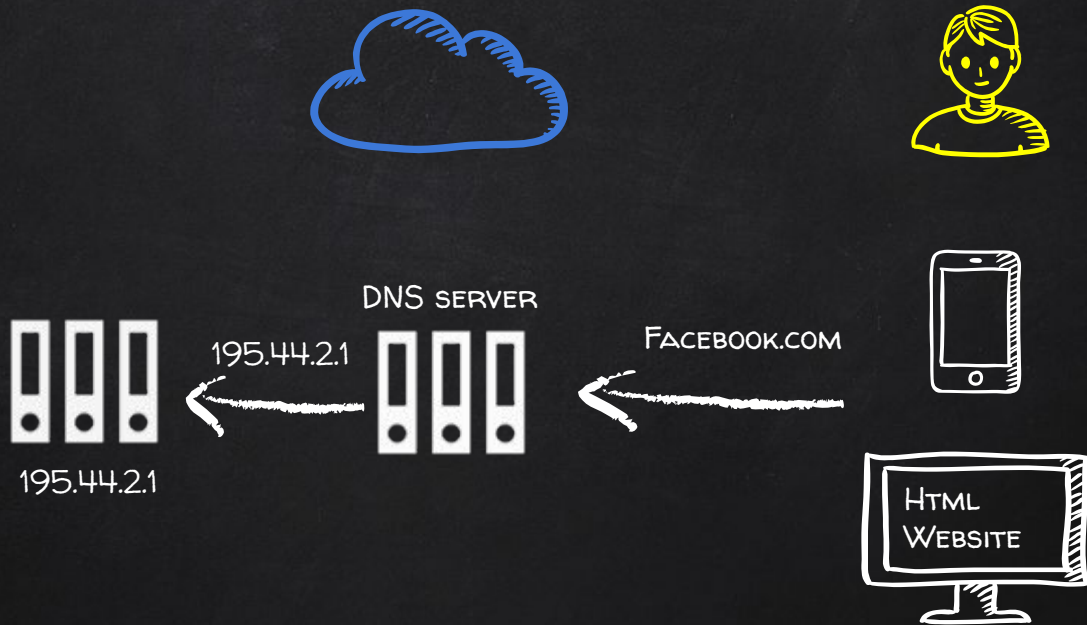
INTERNET

WHAT IS A WEBSITE

HOW TO HACK A WEBSITE?

- Computer with OS and some servers.
- Apache, MySQL ...etc
- Contains web application.
- PHP, Python ...etc
- Web application is executed here and not on the client's machine





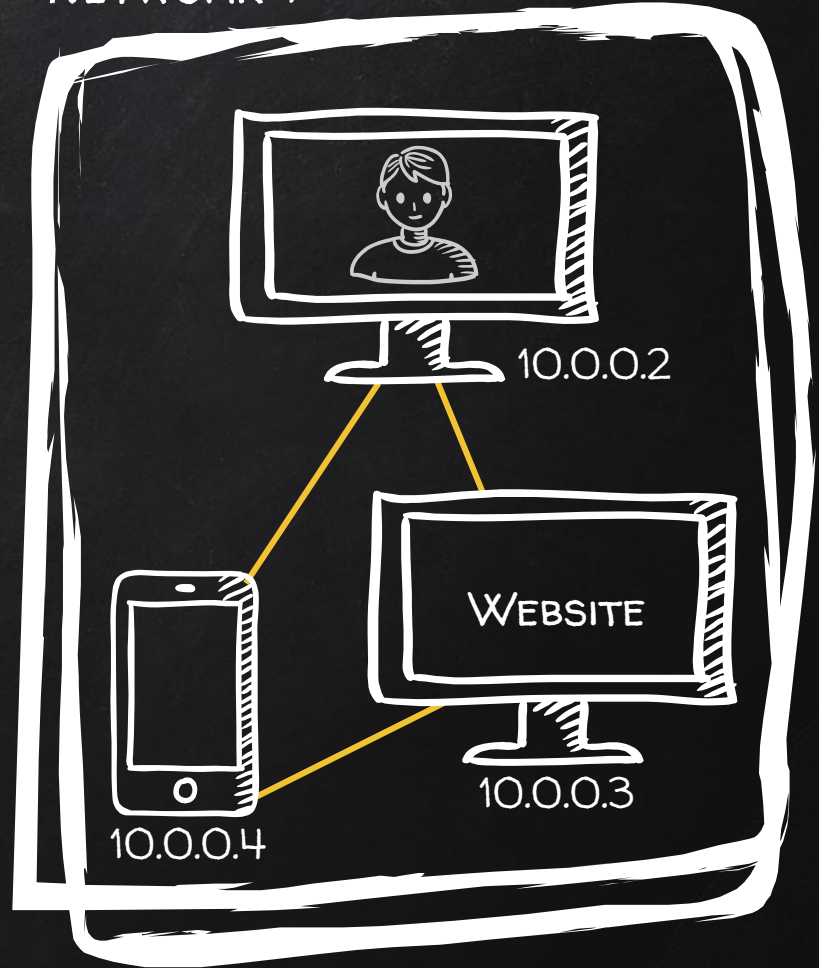
WHAT IS A WEBSITE

HOW TO HACK A WEBSITE?

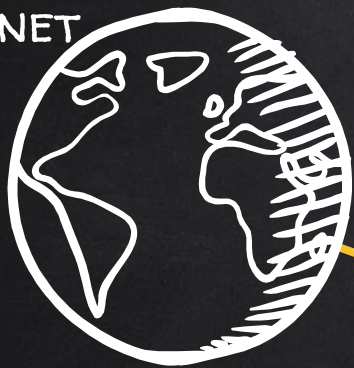
- An application installed on a computer . → web application pentesting
- Computer uses an OS + other applications. → server side attacks.
- Managed by humans. → client side attacks.

→ This course will focus on web application penetration testing.

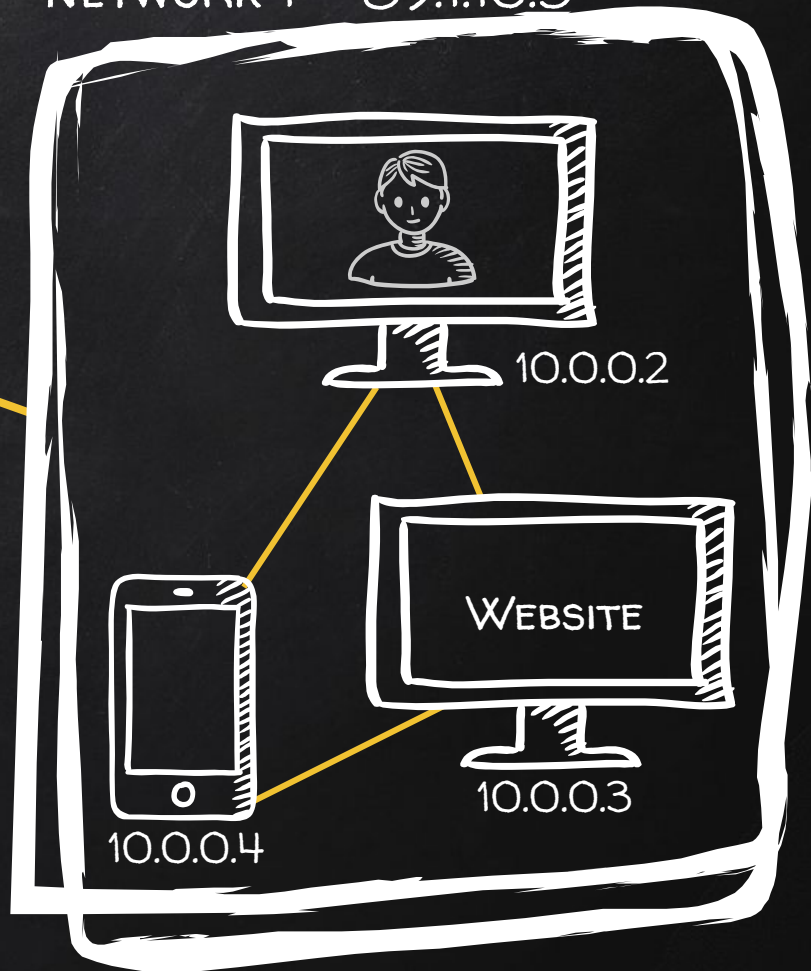
NETWORK 1



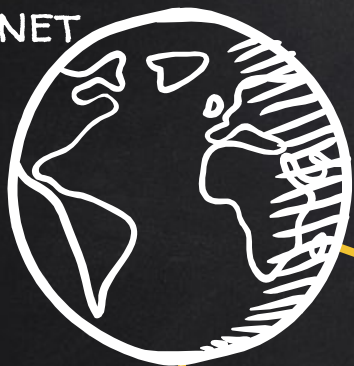
INTERNET



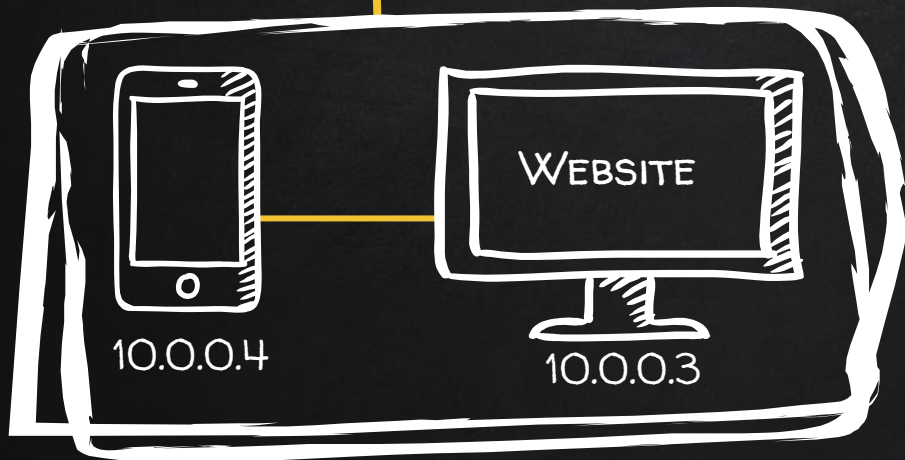
NETWORK 1 – 89.1.10.5



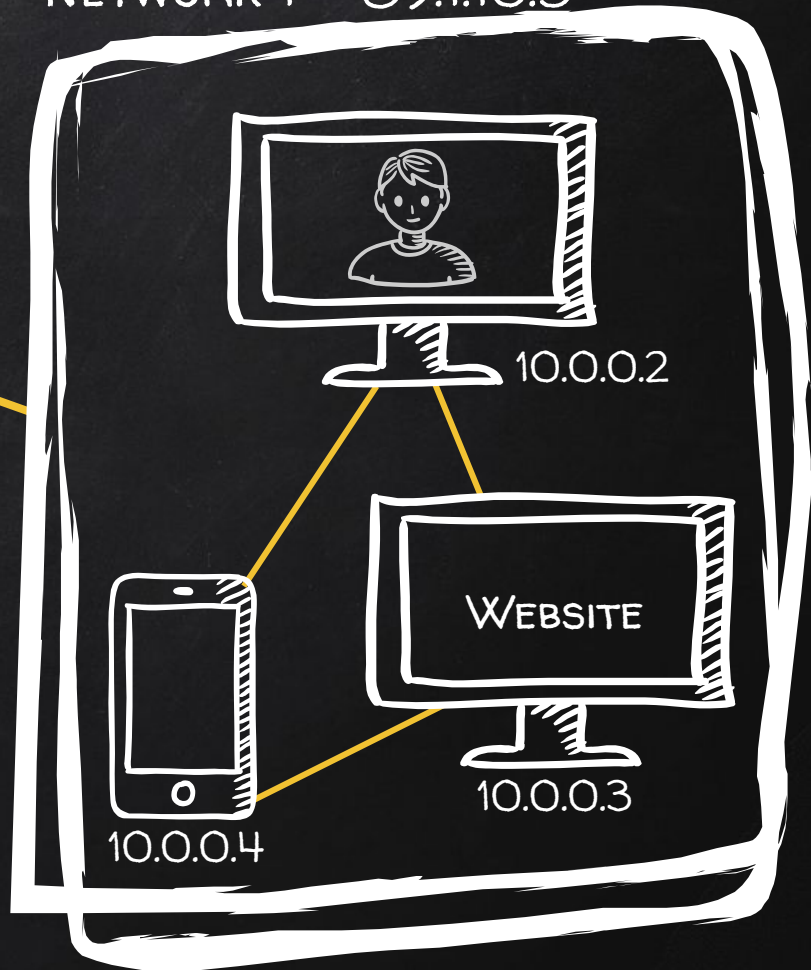
INTERNET



NETWORK 2 - 45.5.60.2



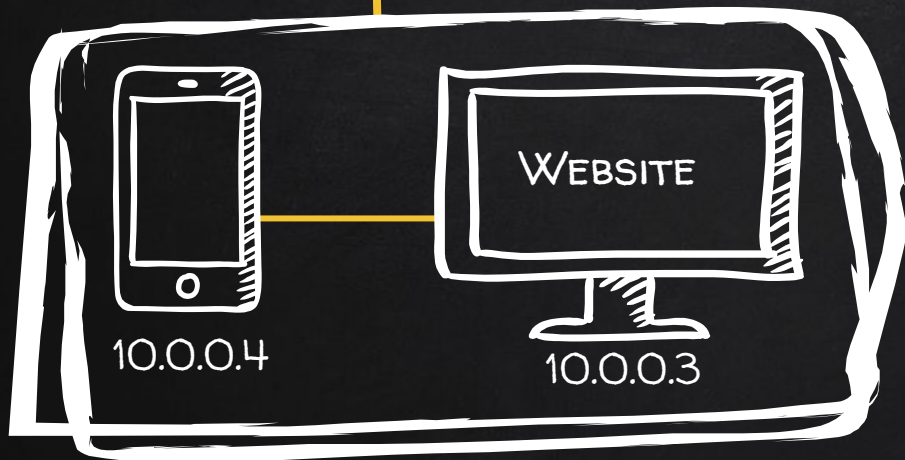
NETWORK 1 - 89.1.10.5



INTERNET



NETWORK 2

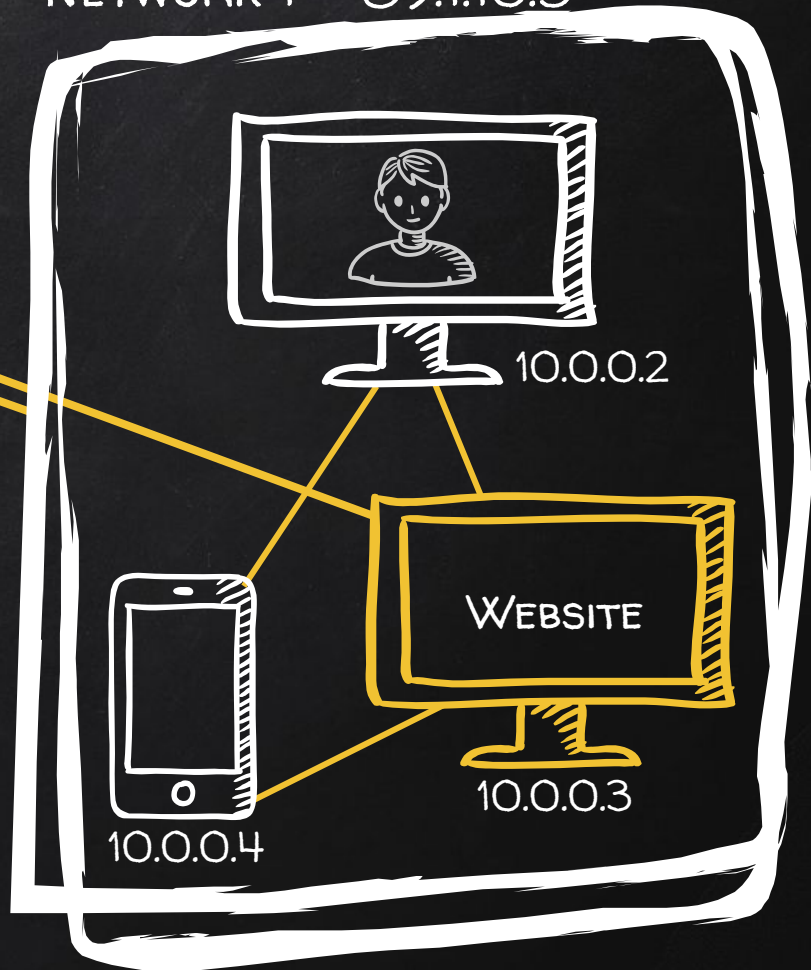


10.0.0.4

WEBSITE

10.0.0.3

NETWORK 1 - 89.1.10.5



10.0.0.2

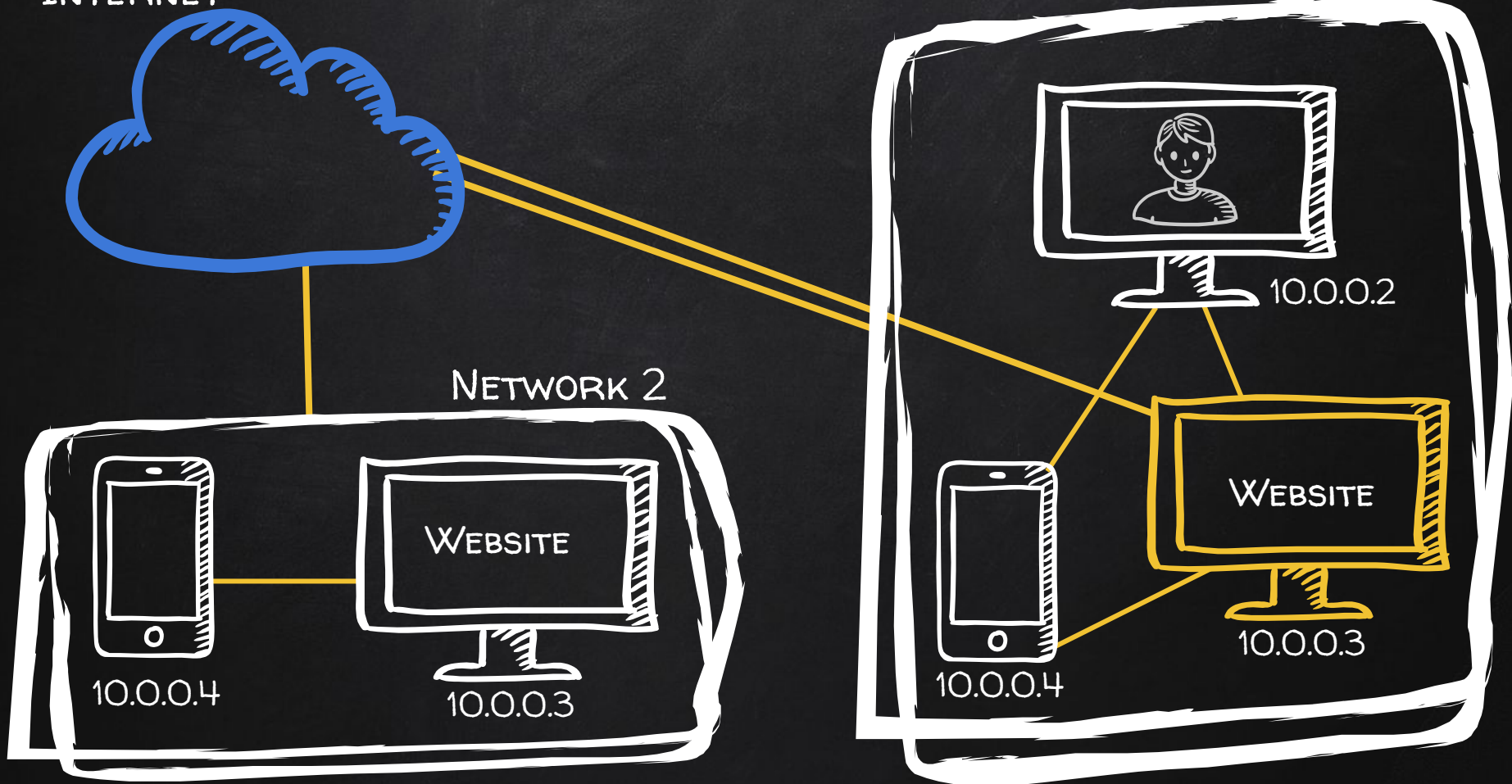
WEBSITE

10.0.0.3

10.0.0.4

INTERNET

NETWORK 1 – 89.1.10.5











CLOUD PROVIDERS
AMAZON AWS
MICROSOFT AZURE
LINODE
DIGITAL OCEAN

KALI LINUX

- Linux Distribution based on Debian.
- Made for hackers.
- Contains lots of hacking tools.

→ This is going to be **the hacker machine.**



WHY LEARN ABOUT THE CLOUD?



1. Understand how websites work.
2. Understand how cloud services work.
3. Run **own** website / cloud services.
4. Run own **hacking** services.
5. Host your own **hacking machine** on the cloud.
6. Run **resource-intensive** tasks.

INTERNET



NETWORK 1 – 89.1.10.5



INTERNET



NETWORK 1 - 89.110.5



INTERNET



NETWORK 1 - 89.110.5



INTERNET



NETWORK 1 - 89.110.5



INTERNET



SSH

NETWORK 1 – 89.1.10.5



INTERNET



INTERNET

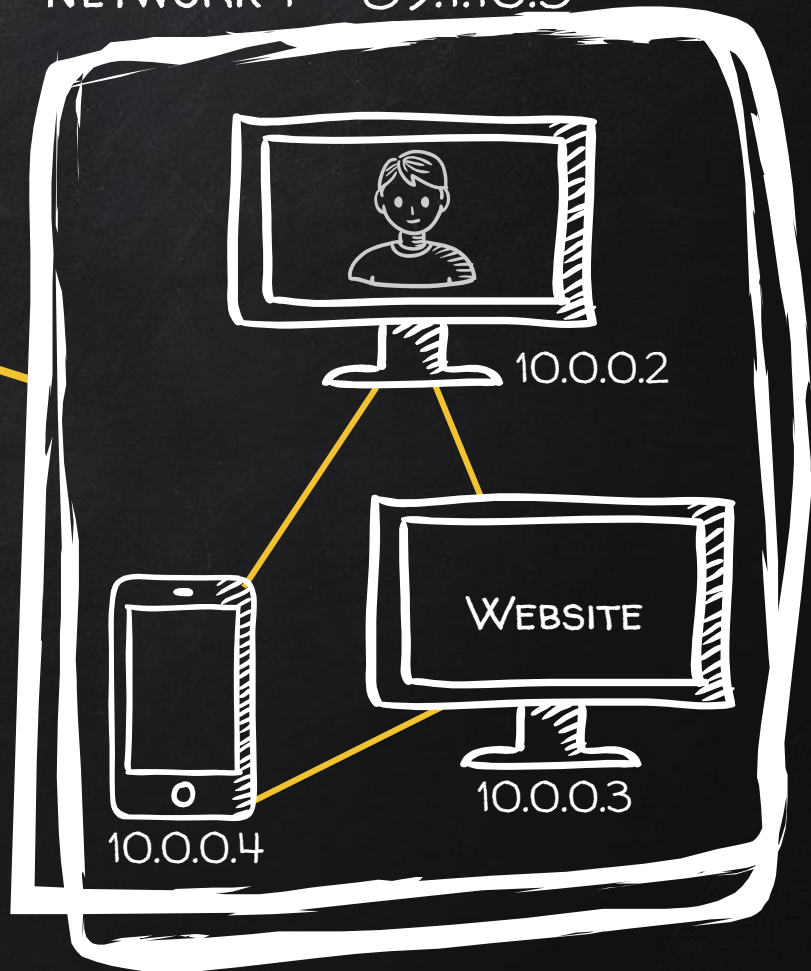


NETWORK 2 - 45.2.40.5

INTERNET



NETWORK 1 – 89.1.10.5



INTERNET



NETWORK 1 – 89.1.10.5



NETWORK 2 – 45.2.40.5