# Lab 1 - Session 3

Daniel Perdices

May 13, 2024

Universidad Autónoma
de Madrid

## What are we going to do today?

Plan

Testing

# Plan

## What you should have done by today

- Questions about Wireshark
    - Lab 1 test might include questions regarding Wireshark
- Questions about Python
    - Lab 1 test might include questions regarding Python3
- Questions about the assignment
    - Lab 1 test will include questions regarding the assignment and the libpcap
- A first draft of the assignment

## Next week?

- Upload your submission

  - Deadline is firm and non-negotiable

- Study for the exam

  - Assignment

  - Your code

  - libpcap

  - Wireshark

  - Python

- Watch all ARP content from the theory part of this course

# Testing

**How do we test the first assignment?**

Input checks:

- On interface

    - Correct value

    - no sudo / missing network interface

- On tracefile

    - Correct value

    - ~~Something that is not a tracefile~~

    - File does not exist (os.path.exists)

## How do we test the first assignment?

Input checks:

- nbytes
  - Values between 0 and 1514
  - Values above 1514
  - Values below 0

Warning:

Displaying weird exceptions or errors is unacceptable. Display a human-readable message.

## What about the traffic?

Network packets may also cause an undesired error in your program

- What happens when packet.len > packet.caplen

- And when packet.caplen < nbytes?

Be careful:

- Check that you capture **the whole packet**

- Only print bytes up to nbytes

## Print the packets

Wrong examples:

`"\x11\x22\xaa\xbb\xcc"`

`0x11 0x22 0xaa 0xbb 0xcc`

`1122AABBCC`

`0b00001110110010`

**Print the packets**

Correct examples:

```
11 22 AA BB CC DD

11 22 aa bb cc dd
```