En cybersécurité aussi, le savoir n'a de valeur que si il est partagé.

In Cybersecurity too, knowledge only increases in value once shared.

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Bad USB presentation

Disclaimer

Disclaimer

The following demonstration is for educational purposes only.

We do not promote or encourage illegal activities.

Knowing your enemy is a half-won battle

La connaissance n'est réellement profitable que lorsqu'elle est partagée

What is Bad USB?

- Like a normal USB key
- When plugged in, performs predefined action
- Can be the source of a compromise if not monitored closely
- PlugX malware was distributed in a campaign through badUSBs

Malduino, from Maltronics

Why does it work?

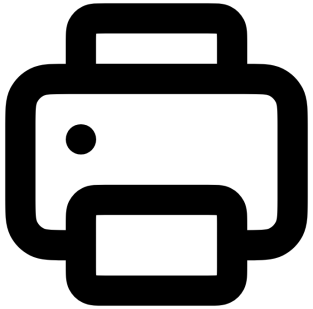
- Peripherals announce their type when connected
- The computer has no choice but to **trust** them

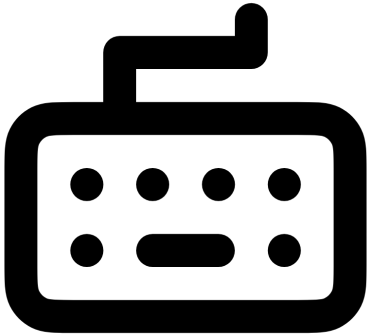
In cybersecurity, **hardware and the human factor** are the **MOST VULNERABLE** parts.

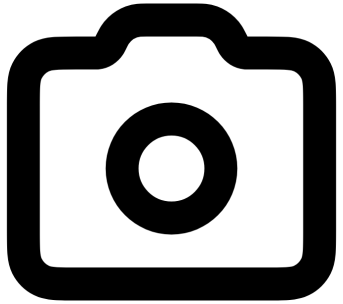
Combining them, a user plugging an USB key is a **deadly method**

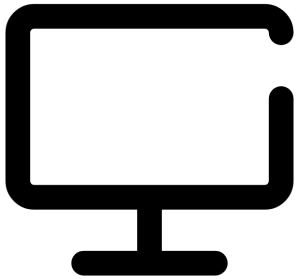
Rubber ducky

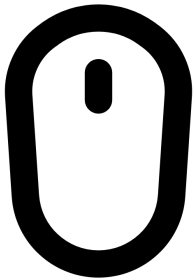
How it's being exploited





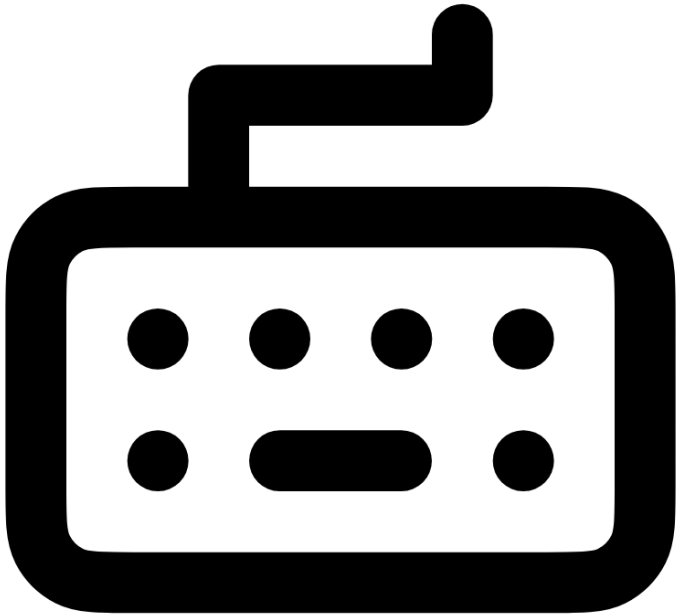






Which peripheral should the badUSB pretend to be?

How it's being exploited



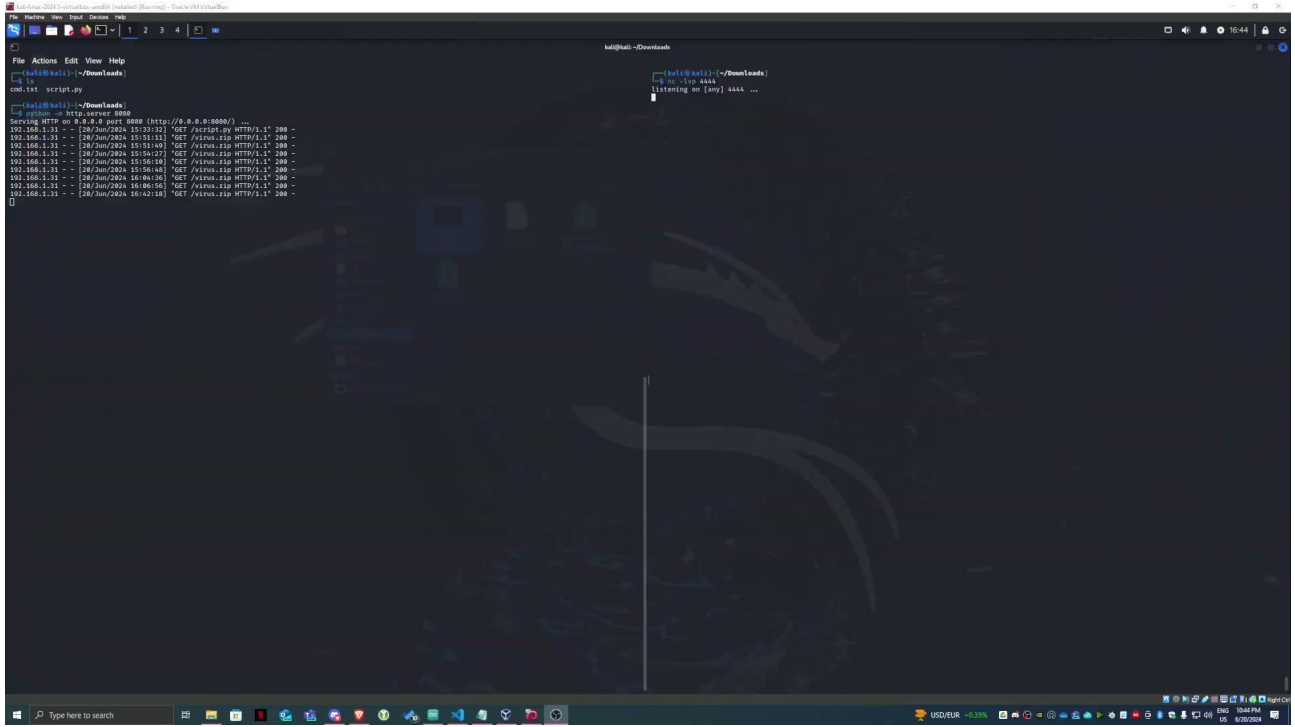
A keyboard enables it to send keystrokes to the computer!

The human factor

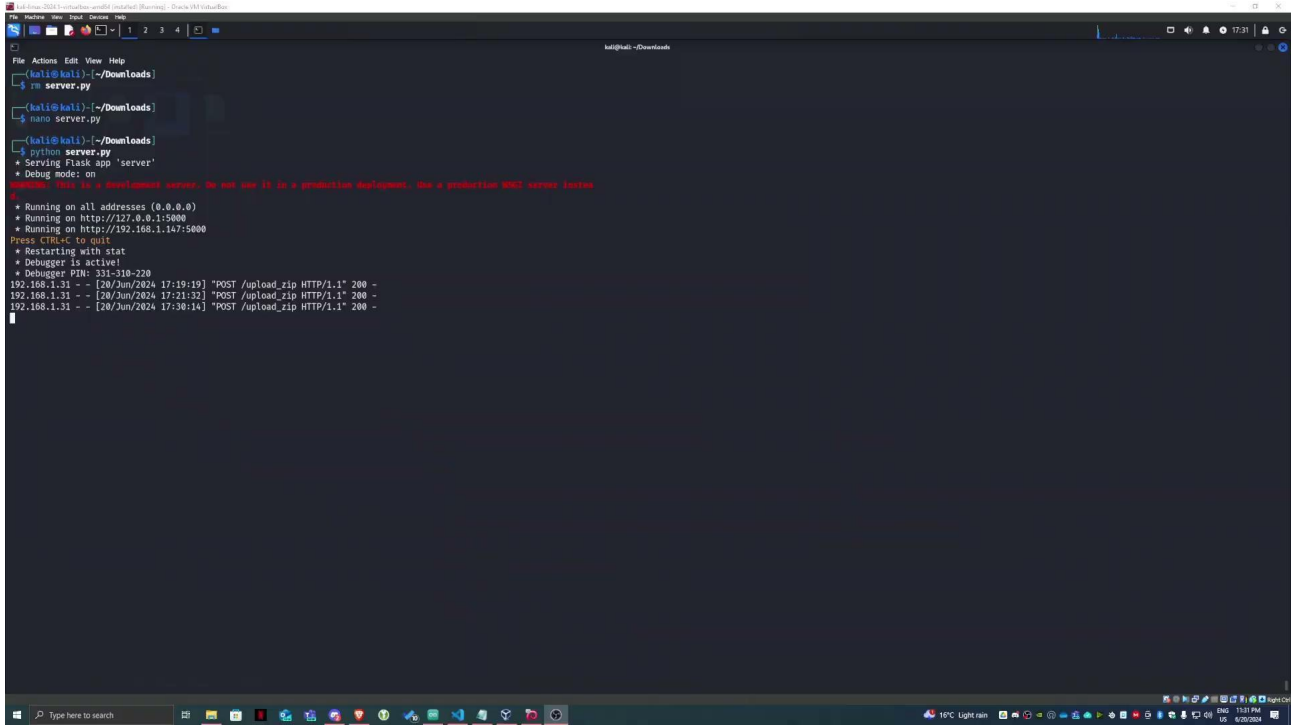
As this attack is hardware-based, a human needs to perform the attack, and another has to make a mistake

- The victim can leave the computer unlocked
- The attacker can perform social engineering to make the victim plug the computer

Example 1



Example 2



How to protect ourselves

- Never plug an untrusted USB key
- Lock your computer when you need to leave it for some time
- You can use an “USB condom” or plug untrusted devices on an isolated machine first to check its behavior

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