Physical Red Teaming

#48 OWASP Stammtisch Frankfurt

28.04.2021 - Mihael Stanojevic

Who am I

Mihael Stanojevic

- ISO27001 Lead Auditor / Lead Implementer, CISSP, red team, white hat, (physical-) pentester

- Over 15 years of Security experience, ~10 years Banking Security experience

- Stands obviously in a museum in Norway

Overview

What is physical security and how it
relates to ISO 27001

Common issues / Examples

”Oh, we have to lock that door?”
How to attack the home office?

How to fix the issues

Why every measure counts
Don’t trust anyone - Raise awareness

What is physical security and how it relates to ISO 27001

Secure Areas

Annex A.11.1 - Objectives

Prevent unauthorised physical access, damage and interference to the organisation’s information and information processing facilities.

Controls

A.11.1.1 Physical Security Perimeter
A.11.1.2 Physical Entry Controls
A.11.1.3 Securing Offices, Rooms and Facilities
A.11.1.4 Protecting against External & Environmental Threats
A.11.1.5 Working in Secure Areas

Equipment Security

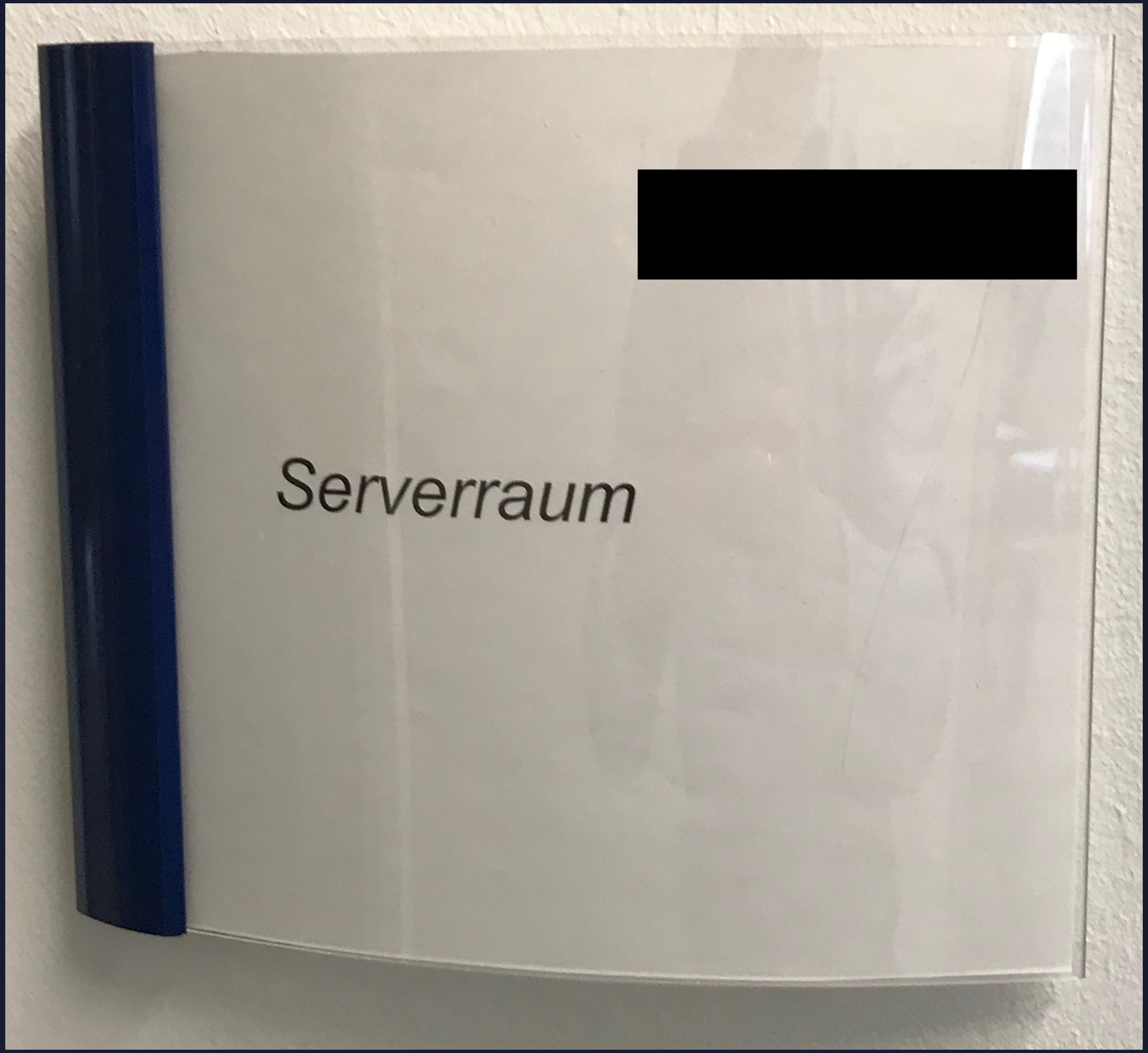
Annex A.11.2 - Objectives

Prevent loss, damage, theft or compromise of assets and interruption to the organisation’s operations

Controls

A.11.2.1 Equipment Siting & Protection
A.11.2.2 Supporting Utilities
A.11.2.3 Cabling Security
A.11.2.4 Equipment Maintenance
A.11.1.5 Working in Secure Areas
…
A.11.2.8 Unattended User Equipment
…

”Oh, we have to lock that door?” – Common issues



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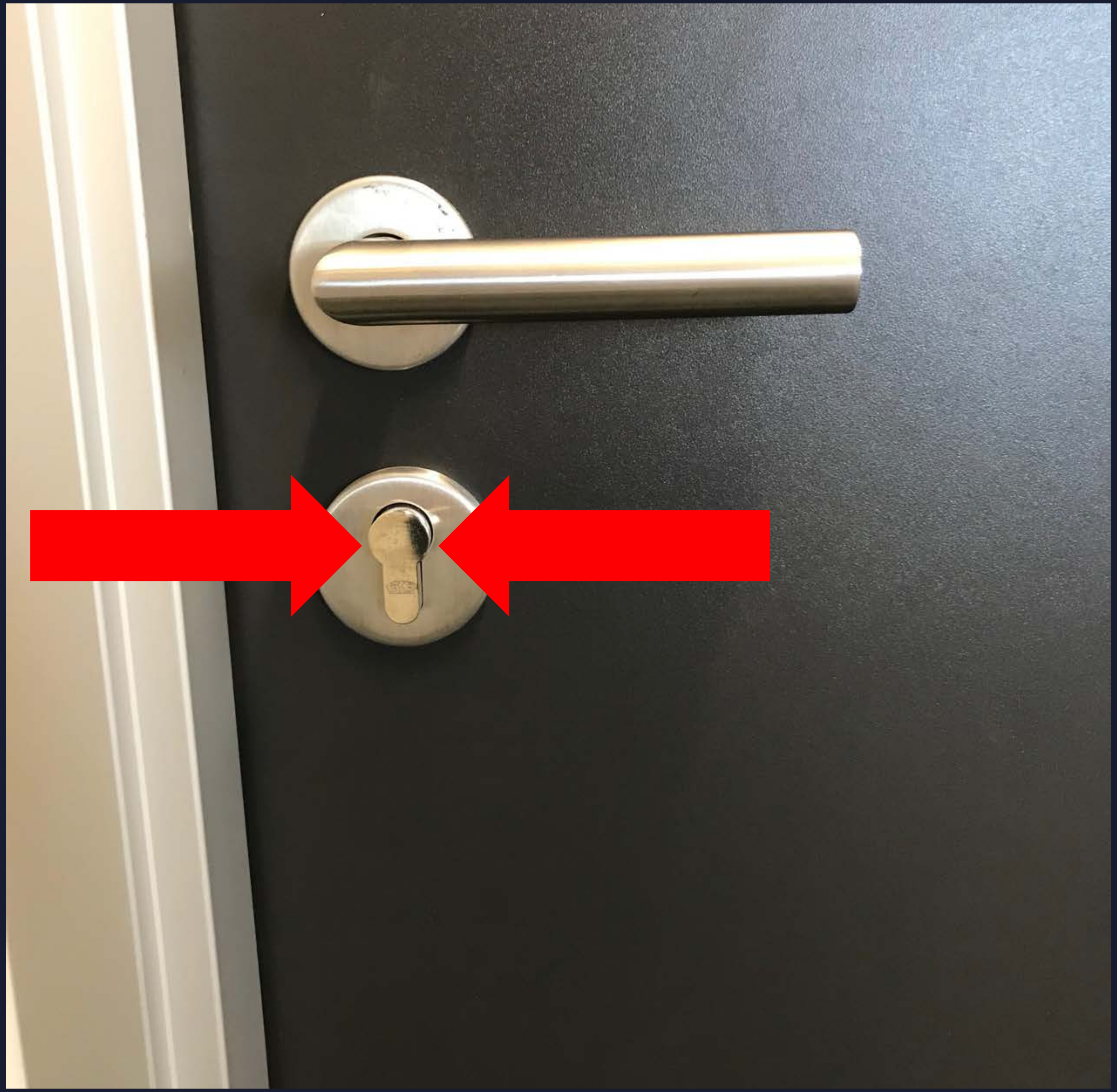

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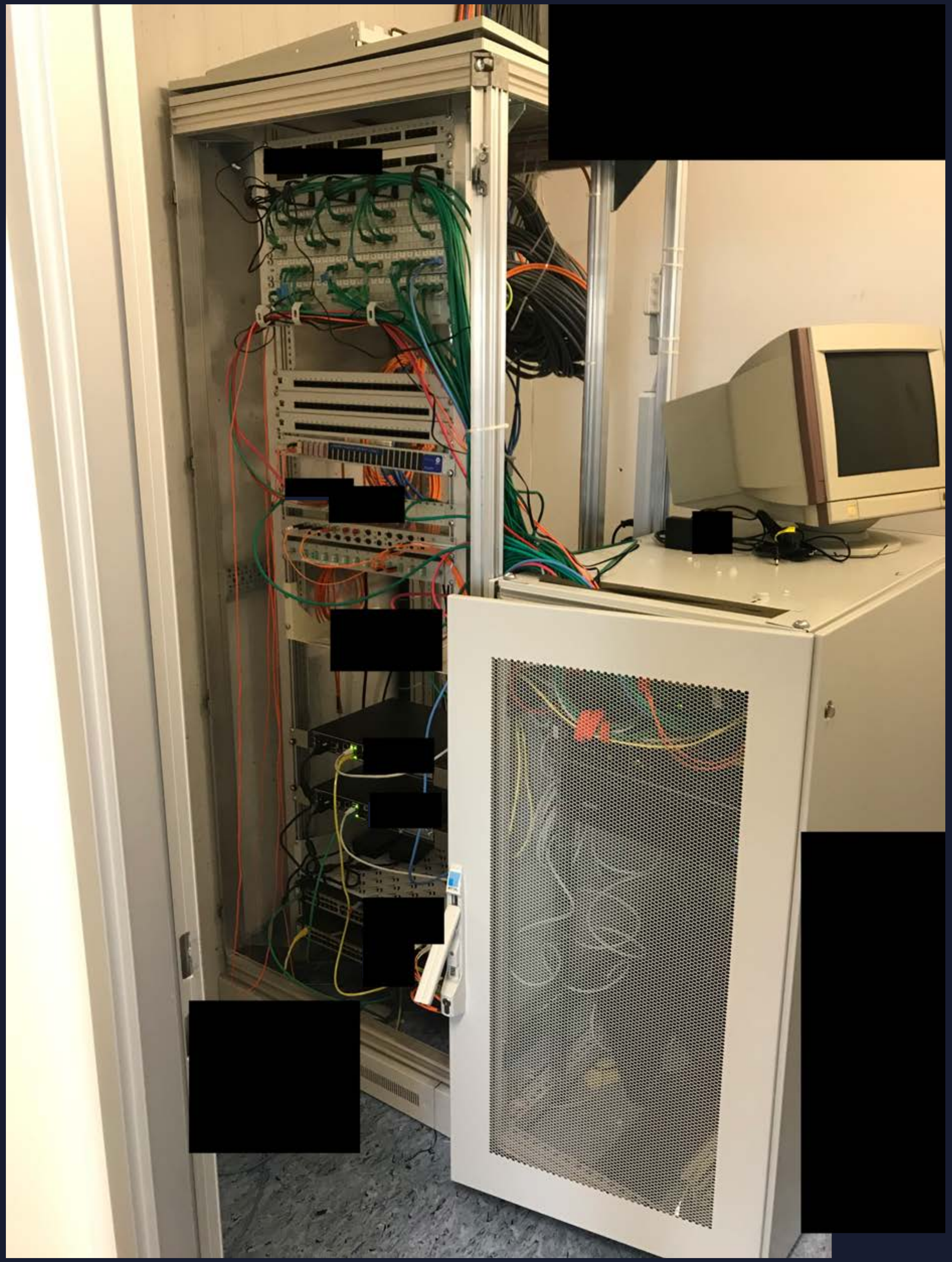

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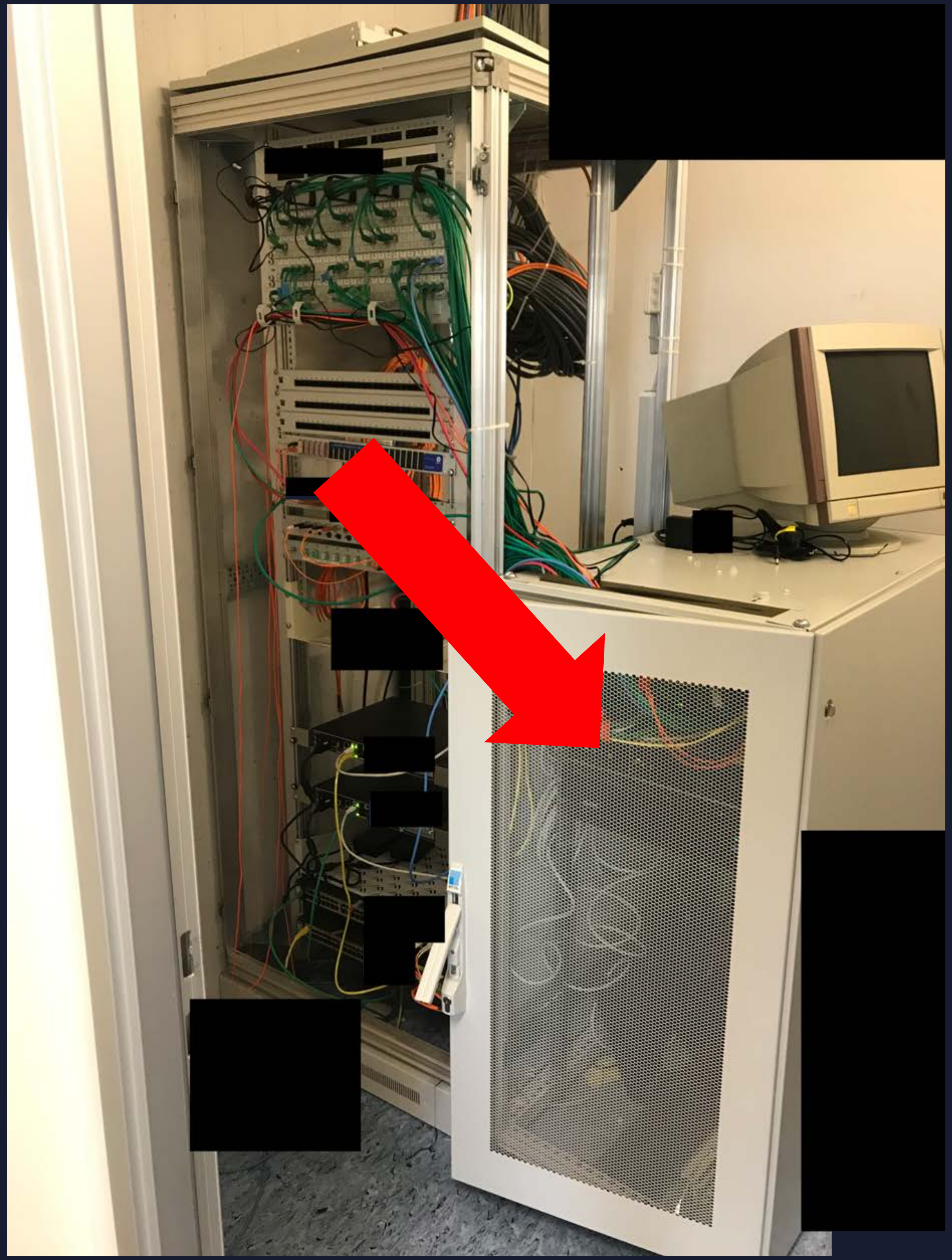

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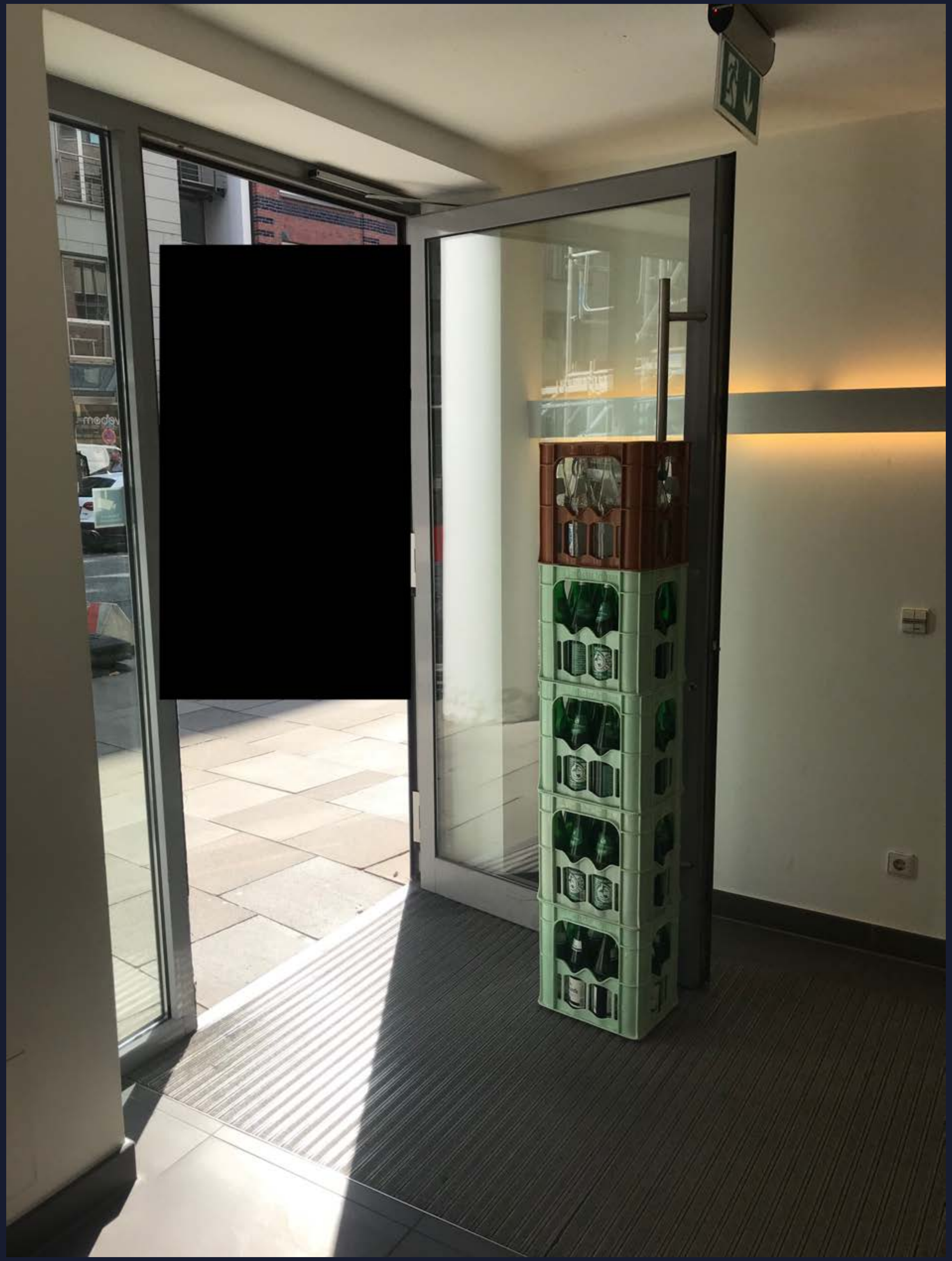

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How to attack the home office?

Insecure infrastructure

- Unmanaged infrastructure
- Unknown Devices
- Rogue access point -> POC

Unsafe environment

- Untrained People around you
- Kids and Pets
- Theft risk

How to fix the issues

Every measure counts

Breaches are caused by the concatenation of many small things

Don’t be gullible

Do not open doors for anyone if you do not know them

Protect

Lock your assets if you do not use them

Keep your eyes open

If you see something – say something!

THANK YOU!