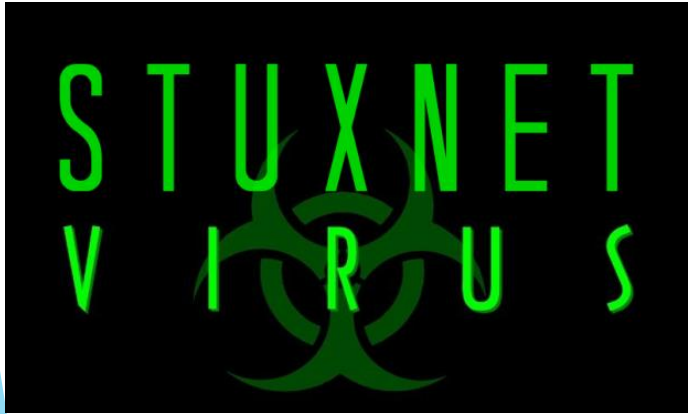


What is Cyber Security?





What are we defending?



IP



ID



Financial transactions



Sensitive data: commercial, academic, military, political



Processes: critical infrastructure



People and processes are a point of entry



Clients, partners and suppliers are a risk (TPRM)

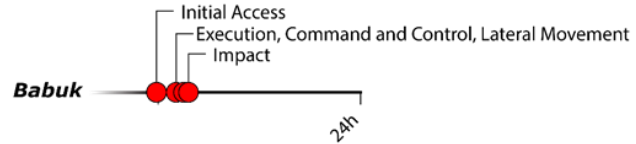
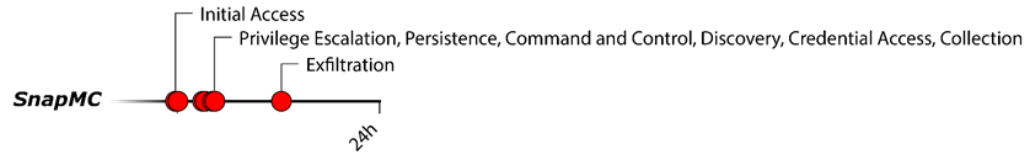
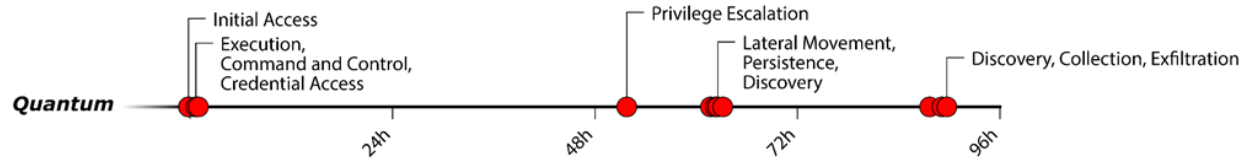
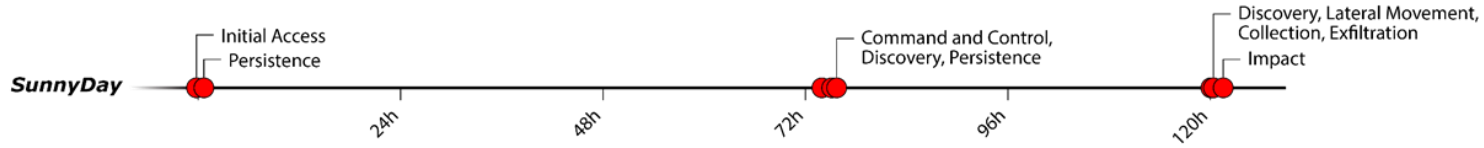
Dynamics of cybercrime

Perpetrator:

- No skills
- Simultaneous execution
- High degree of division of labor

Victim:

- Determined by technology and degree of security care
- No link to perp in time and location
- No need to be a target...



Ransomware business model

24 Bn turnover

50% in US

Average ransom
2019 \$400k →
2020 \$800k →
2023 \$1.500k

Recovery costs
have doubled in
one years

32% pays,
recovery 65%

Top 10 does not
operate in RF



It is not a war...

TECH - Computing power: Moore's law

ECONOMIC - Protectionism is on the rise

LEGAL - CISOs are facing charges

GEOPOLITICS - data sovereignty (Mario Draghi)

AI - is a catalyst

AI Impact on cyber security

Offense

- LLM: chatbots, phishing emails
- Perimeter scanning, elastic search
- Firewall settings/system reaction

- Malware engineering
- Disinformation

Defense

- Spam filters
- Perimeter scanning, elastic search
- Anomaly detection, Rule writing for SOCs (XDR), Threat intel: APT signatures
- Reverse malware engineering
- ...can we model sane decision making?

Challenge to society: sober up



Sobriety in applications/systems (CMDB, kill your legacy systems)



Segmentation



Data classification

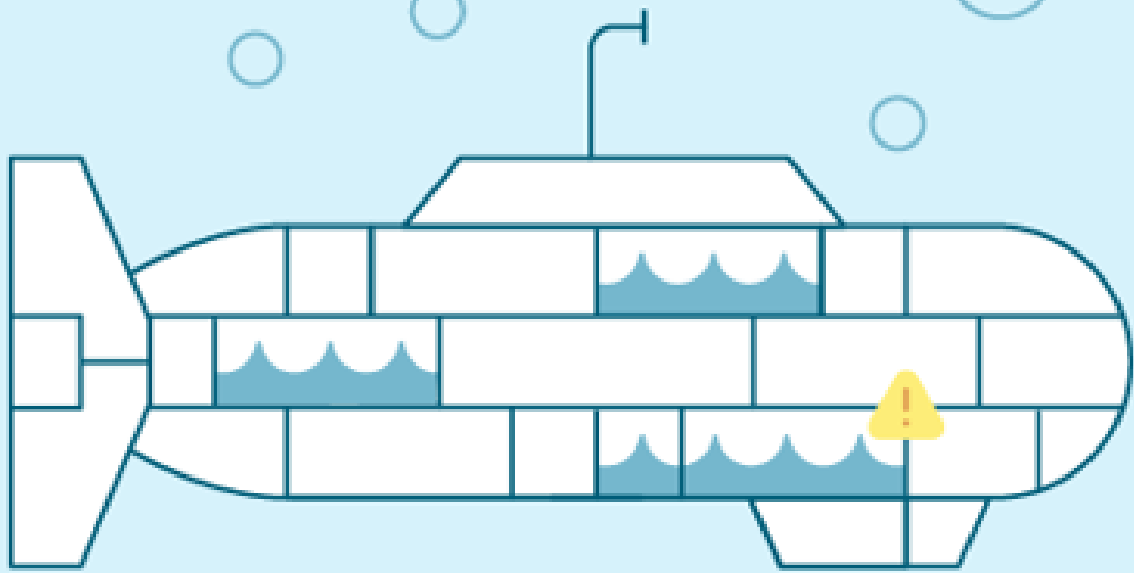


IAM: zero trust



Compliance (NIS2, GDPR, DORA, AI act)





Human leadership is key

Small span of control

Mandate close to execution

High degree of transparency & cooperation

All talents welcome

Fear, control **SPEED**

Fuck ups are encouraged: assume breach....



▶ Assume humility

- ▶ Politics will not change
- ▶ Huge rise in inflation
- ▶ Human rights for the happy few
- ▶ Budget cuts in academia
- ▶ Rapid sequence of major, unsettling events

- ▶ Focus on your talent
- ▶ Be the best you can be
- ▶ Do not take responsibility for someone else's misbehaviour
- ▶ The fruit of your labor will save the world







