



Why we play with InfoSec - Escape room, Outdoor quest and DnD

Katja Dörlemann

1ST CYBERSECURITY AWARENESS RAISING CONFERENCE | November 27, 2024

Switch

NREN

-

National Research
and Education
Network

Registry

-

for .ch/.li ccTLDs

Switch

**Education,
Research &
Innovation
Community**

**Swiss universities on tertiary
level and their research
institutions**

**Internet
Community**

**Internet Service Providers,
Hosters, Domain Registrars**

Commercial

**Banking, Industry & Logistics,
Energy, Healthcare, Government**

2024 Cyber study

IT security in Swiss SMEs, IT service companies and the Swiss population

Marc K. Peter, Katja Dörlemann, Kristof Hertig, Andreas W. Kaelin,
Karin Mändli Lerch, Patric Vifian, Nicole Wettstein

www.cyberstudie.ch



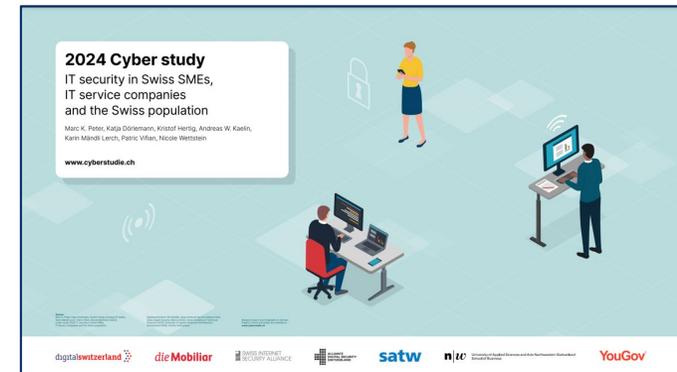
Source:
Marc K. Peter, Katja Dörlemann, Kristof Hertig, Andreas W. Kaelin,
Karin Mändli Lerch, Patric Vifian, Nicole Wettstein (2024):
Cyber study 2024: IT security in Swiss SMEs,
IT service companies and the Swiss population.

digitalswitzerland, Die Mobiliar, Swiss Internet Security Alliance SISA,
Swiss Digital Security Alliance ADSA, Swiss Academy of Technical
Sciences SATW, University of Applied Sciences Northwestern
Switzerland FHNW, YouGov Switzerland.

Research report and infographic in German,
English, French and Italian are available at
www.cyberstudie.ch

94% agree that cybercrime is a serious problem.

90% think that measures to protect against cyber attacks are important.



94% agree that cybercrime is a serious problem.

90% think that measures to protect against cyber attacks are important.

28% participated in a cybersecurity training (76% at work).

33% use the same or almost the password(s) for all their accounts.



We don't know what we don't know...

94% agree that cybercrime is a serious problem.

90% think that measures to protect against cyber attacks are important.

28% participated in a cybersecurity training (76% at work).

33% use the same or almost the password(s) for all their accounts.



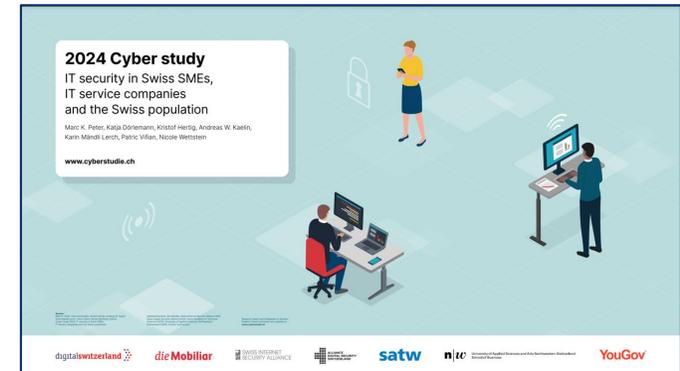
We don't know what we don't know...and we don't care.

94% agree that cybercrime is a serious problem.

90% think that measures to protect against cyber attacks are important.

28% participated in a cybersecurity training (76% at work).

33% use the same or almost the password(s) for all their accounts.



Awareness

-
Raise awareness and
interest for a topic

Education & Training

-
(New) skills and the
theory behind them

Processes & Tools

-
Enable and support
secure behaviour

Switch Security Awareness Adventures



Hack The Hacker
—
the escape room



Track The Hacker
—
the outdoor quest



Piece of Cake
—
the roleplaying game

<https://swit.ch/security-awareness-adventures>

What we want to achieve



**Positive
Experience**

No frustration,
easy access,
empathy



**De-mystify &
empower**

Challenging,
realistic tasks/puzzles,
adversarial mindset



**Improve
reputation**

Entertaining & fun,
while serious & competent

Gamification

-
learning facts, short term
engagement

<https://en.wikipedia.org/wiki/Gamification>

Game Design

-
Emotional experience,
freedom to fail, engagement

https://en.wikipedia.org/wiki/Game_design

Game Design in Trainings

Training

Learning objective
Relevance for real life
Frustration

vs.

Game

Game objective
Pretend to be
Challenge

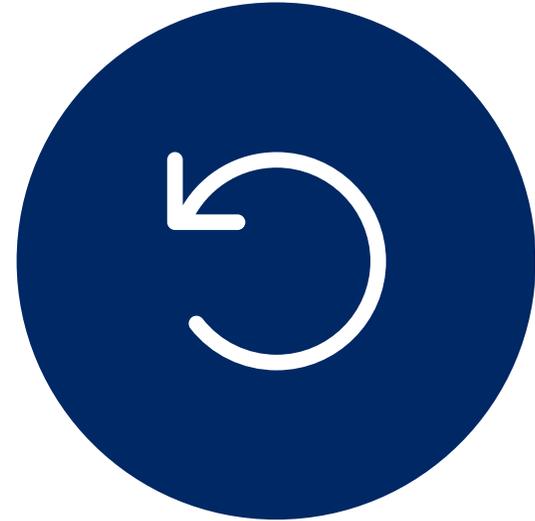
Training in 3 steps



learn



practice



repeat

Hack The Hacker

– the escape room

Find the decryption key and
save your organization!

(Understand the importance of
strong passwords!)

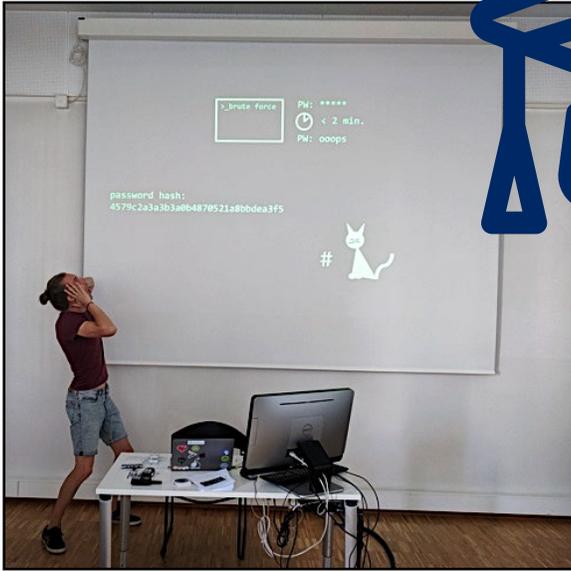
Duration: ca. 2 h

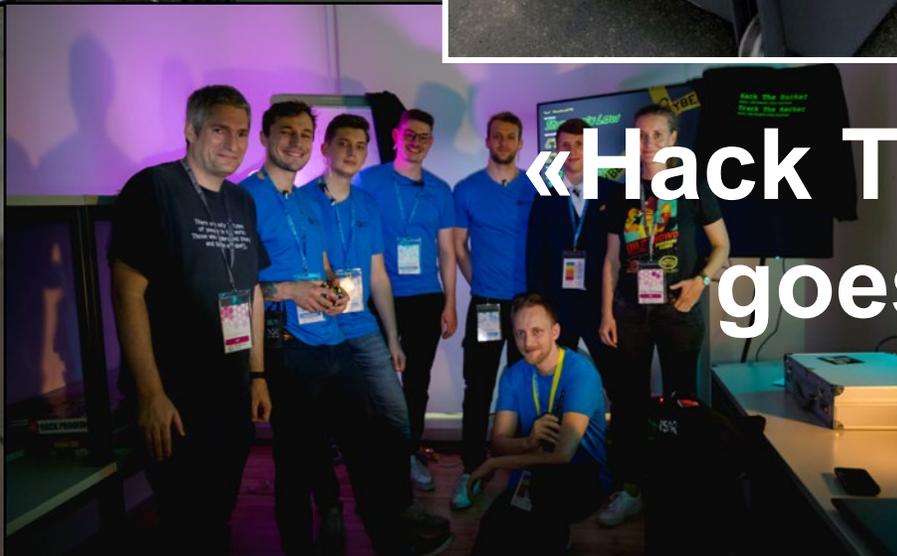
Participants: 3-6

Target group: everybody

<https://swit.ch/hack-the-hacker>







«Hack The Hacker»
goes anywhere

Track The Hacker

– the outdoor quest

Find the hackers whereabouts by following his digital footprints!

(Understand the importance of data privacy and security (on social media)!)

Duration: ca. 3 h

Participants: 3-6

Target group: everybody

<https://swit.ch/track-the-hacker>

Switch





Piece of Cake

— the roleplaying game

Sneak onto your rival's premises
and retrieve the stolen receipt!

(Understand how to protect
personal and sensitive
information from unauthorised
access or disclosure!)

Duration: ca. 2 h

Participants: 3-5

Target group: everybody

<https://swit.ch/piece-of-cake>

Switch





Switch



Awareness

-
Raise awareness and
interest for a topic

Education & Training

-
(New) skills and the
theory behind them

Processes & Tools

-
Enable and support
secure behaviour

Awareness

-
Raise awareness and
interest for a topic

Education & Training

-
(New) skills and
the theory behind
them

Processes & Tools

-
Enable and
support secure
behaviour

What you can do

- De-mystify InfoSec
- Empower users to deal with IT related topics
- Raise (long term) interest in security
- Improve the reputation of the security department
- Improve teamwork (on security)

What you cannot do

- Train a high number of employees in a cost-effective way
- Optimise it to a cost-effective training tool
- Quickly adapt to new topics
- Deep Dives (!)
- Convince EVERYone



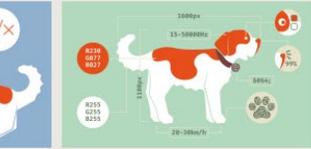
Swiss Security Awareness Day



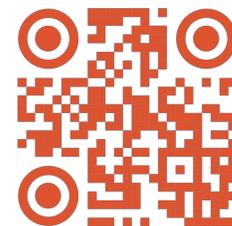
The internet security platform.



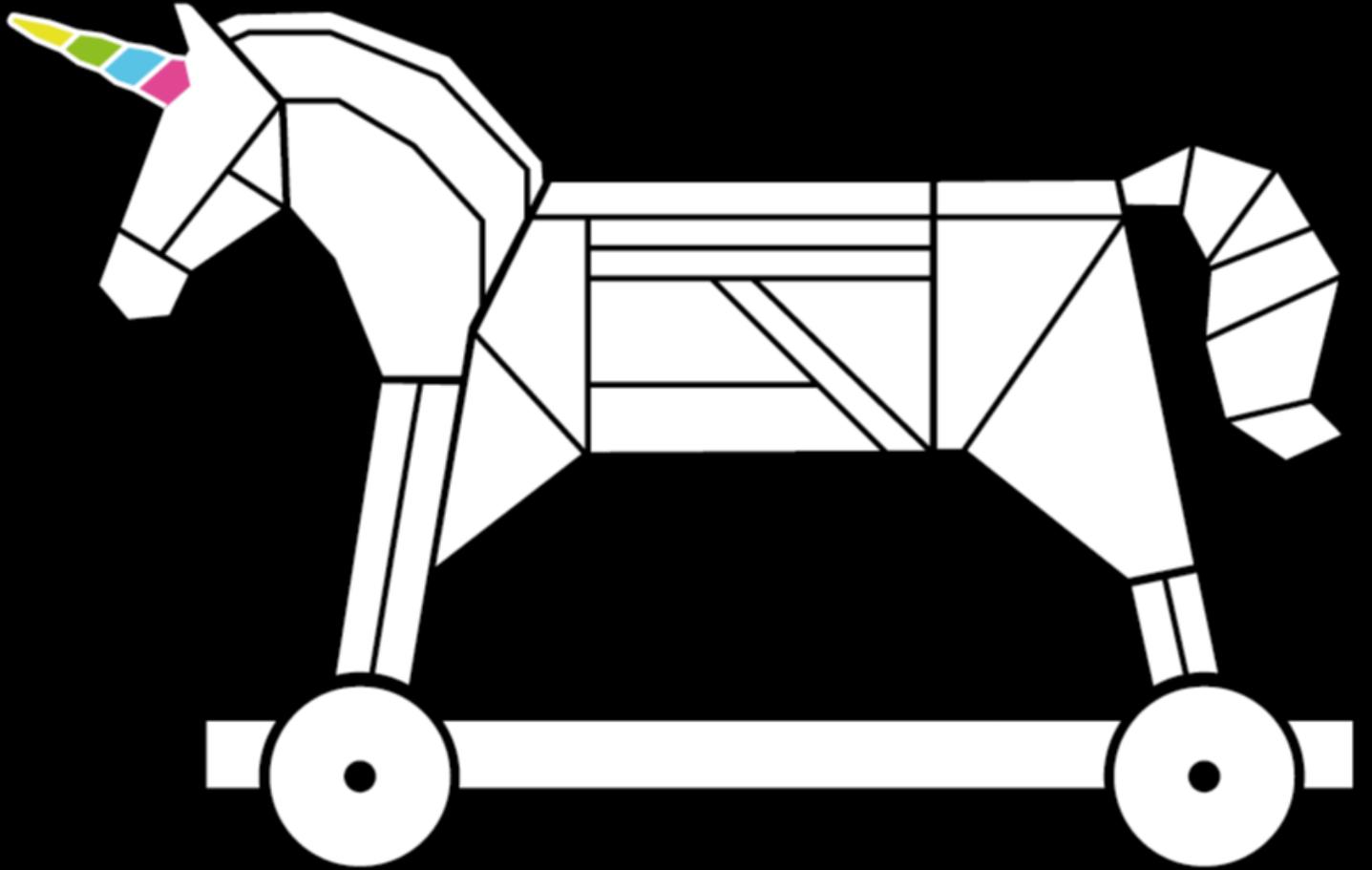
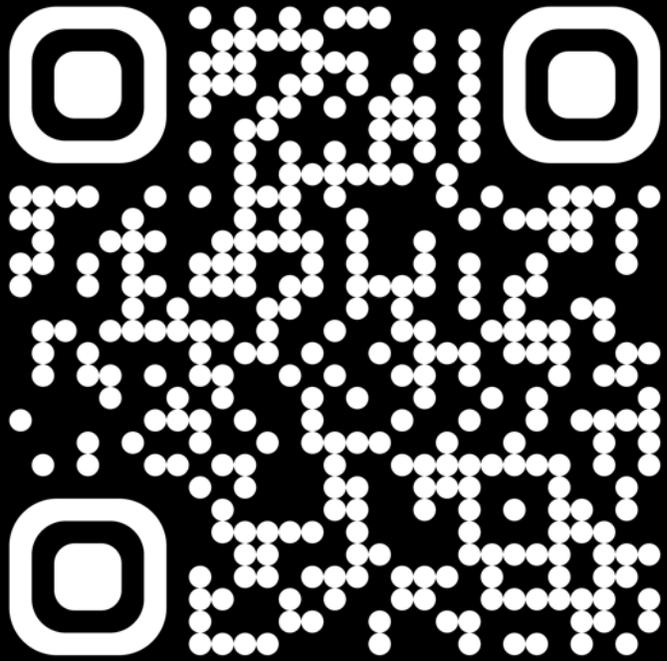
iBarry.ch

 <p>Cloud security: Using cloud services securely Safe device</p>	 <p>Mobile device security: How to protect your smartphone Safe device</p>	 <p>VPN: A secure tunnel through the public network Safe surfing</p>	 <p>Securing your website Safe surfing</p>	 <p>How we are tricked in the digital world – social engineering and fake news Internet risks</p>	 <p>How does the new Data Protection Act affect me? Internet risks</p>
 <p>Two-factor authentication: Do you already use two steps? Safe device</p>	 <p>Home Office: How to work securely Safe device</p>	 <p>Malware: Beware of viruses, worms & trojans! Safe surfing</p>	 <p>E-Mail-Security: You've got mail. Safe surfing</p>	 <p>Deepfakes – when video evidence lies Internet risks</p>	 <p>Ransomware – when your computer is encrypted Internet risks</p>
 <p>Internet of Things (IoT): When the fridge orders supplies ... Safe device</p>	 <p>Data backup: Store your data in a second location Safe device</p>	 <p>Data on Social Media Public or private? You decide. Safe surfing</p>	 <p>Safe Passwords: Protect yourself and your data Safe surfing</p>	 <p>Social engineering: How cybercriminals trick us Internet risks</p>	 <p>Cybergrooming: How to protect your child Internet risks</p>
 <p>Always install them: The importance of updates Safe device</p>	 <p>Smishing – phishing via text message on your smartphone Safe device</p>	 <p>Online-Shopping: Too good to be true? Safe surfing</p>	 <p>E-Banking: How to pay your bills securely online Safe surfing</p>	 <p>Sextortion: Blackmail with compromising videos Internet risks</p>	 <p>Money mule: Financial agent or money launderer? Internet risks</p>

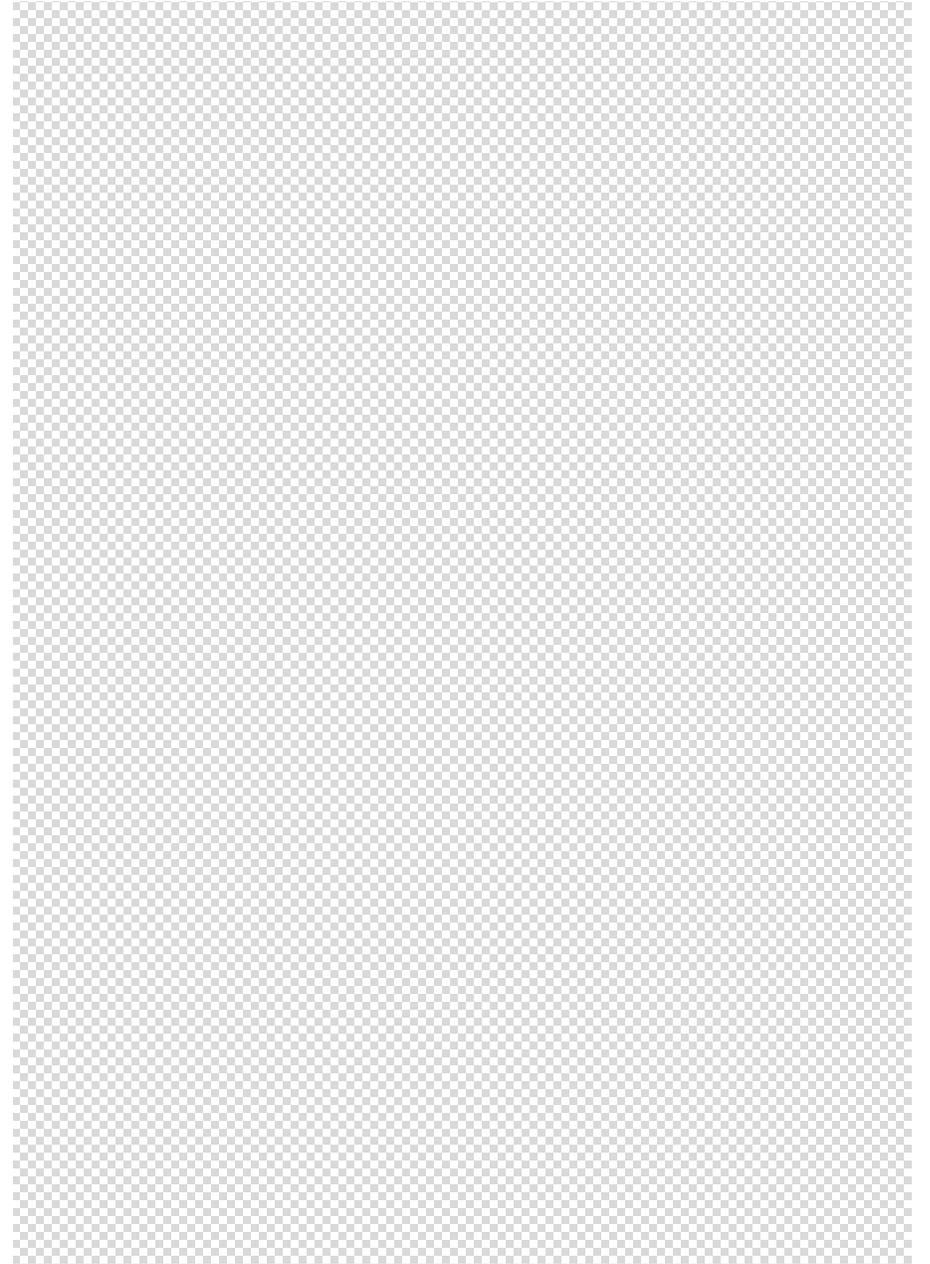
An initiative of the Swiss Internet Security Alliance SISA.



ibarry.ch



Security Awareness Insider Podcast



Switch Security Awareness Competence Center

Fabio Greiner | Katja Dörlemann | Cornelia Puhze

awareness@switch.ch



Annex

Security Awareness Adventures

In for some action?



Switch







Switch