

# Three major reasons your users get hacked

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LUCY Security AG





## DID YOU KNOW THAT...



**Firewall, Antivirus & Co are not enough anymore!**

**We just simply let  
the criminals in!**



# Why does it happen?

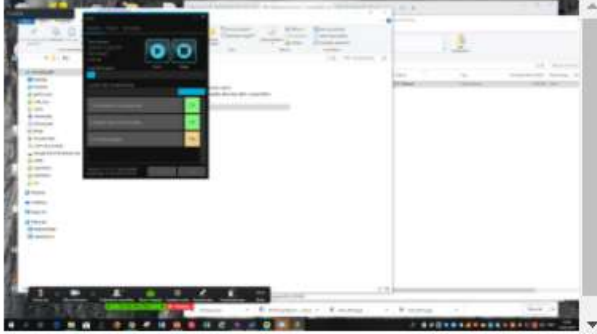

1. Technical flaws or misconfiguration
2. Lack of Knowledge
3. Human behaviour

# Reason 1

# Technical flaws or misconfiguration



Name	Typ	Daten
(Standard)	REG_SZ	(Wert nicht festgelegt)
MOZ_PLUGIN_P...	REG_SZ	C:\Program Files (x86)\FOXIT SOFTWARE\FOXIT R...
OneDrive	REG_EXPAND_SZ	C:\Users\pstac\OneDrive
OneDriveConsu...	REG_EXPAND_SZ	C:\Users\pstac\OneDrive
Path	REG_EXPAND_SZ	%USERPROFILE%\AppData\Local\Microsoft\Winc...
TEMP	REG_EXPAND_SZ	%USERPROFILE%\AppData\Local\Temp
TMP	REG_EXPAND_SZ	%USERPROFILE%\AppData\Local\Temp

Nr	Test	Info	Result	Status	Risk	Solution
1	Command line access test	<a href="#">View Details</a>	Executed command: <b>whoami</b> <a href="#">(full output)</a>	Success	<span style="color: yellow;">■</span>	<a href="#">View Details</a>
2	Recent documents access	<a href="#">View Details</a>	G:\Meine Ablage\LUCY-Documents\Bilanz-ER Detail 2017.pdf <a href="#">(full output)</a>	Success	<span style="color: yellow;">■</span>	<a href="#">View Details</a>
3	Outlook access	<a href="#">View Details</a>	Error reason: <b>Outlook is not found</b> <a href="#">(full output)</a>	Fail	<span style="color: blue;">■</span>	<a href="#">View Details</a>
4	Screenshot test	<a href="#">View Details</a>		Success	<span style="color: yellow;">■</span>	<a href="#">View Details</a>
5	Webcam access test	<a href="#">View Details</a>	Error reason: <b>Data was not received</b>	Fail	<span style="color: blue;">■</span>	<a href="#">View Details</a>
6	Microphone check	<a href="#">View Details</a>	 <a href="#">Recorded sound</a>	Success	<span style="color: green;">■</span>	<a href="#">View Details</a>
7	Access to the Internet via IE	<a href="#">View Details</a>	Received page url: <a href="http://www.bing.com">http://www.bing.com</a>	Success	<span style="color: yellow;">■</span>	<a href="#">View Details</a>
8	Access to the Internet	<a href="#">View Details</a>	<a href="#">(full output)</a>	Success	<span style="color: red;">■</span>	<a href="#">View Details</a>

**LUCY Malware Simulation**

## Reason 2



# Lack of IT-Sec knowledge among employees

## Today's requirements in the areas of:

### Generic Security Awareness Content

1. Phishing & Malware
2. Password Security
3. Shoulder Surfing
4. Media based Attacks
5. Vishing
6. Clean Desk Policy
7. Physical Security
8. Visits and personal interactions
9. Social Engineering generic
10. Public Wifi
11. Mobile Devices
12. Secure Travelling
13. Security Incidents
14. Cloud and Internet Security
15. Ransomware
16. BYOD
17. Email Security

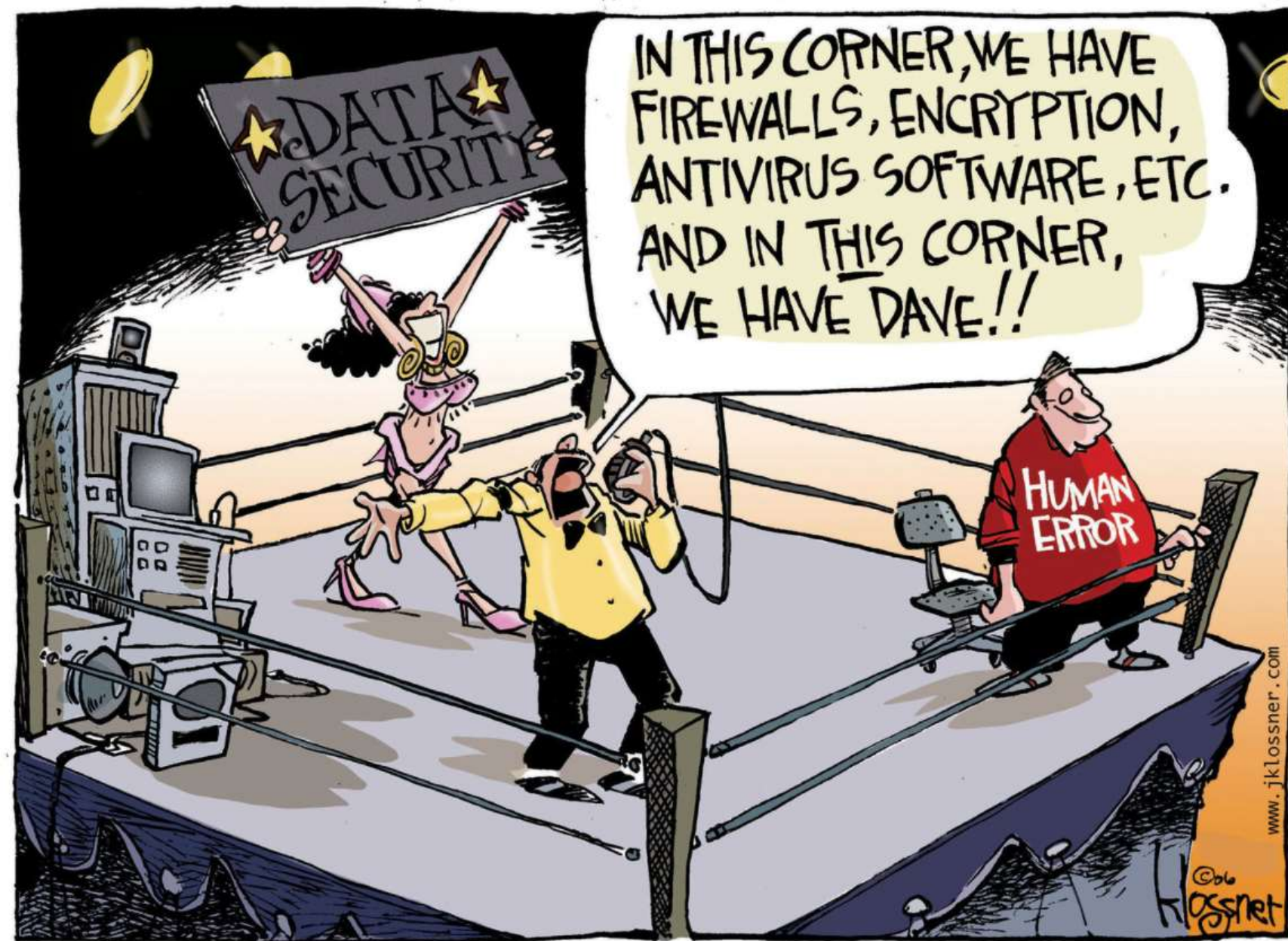


# Reason 3 Behaviour

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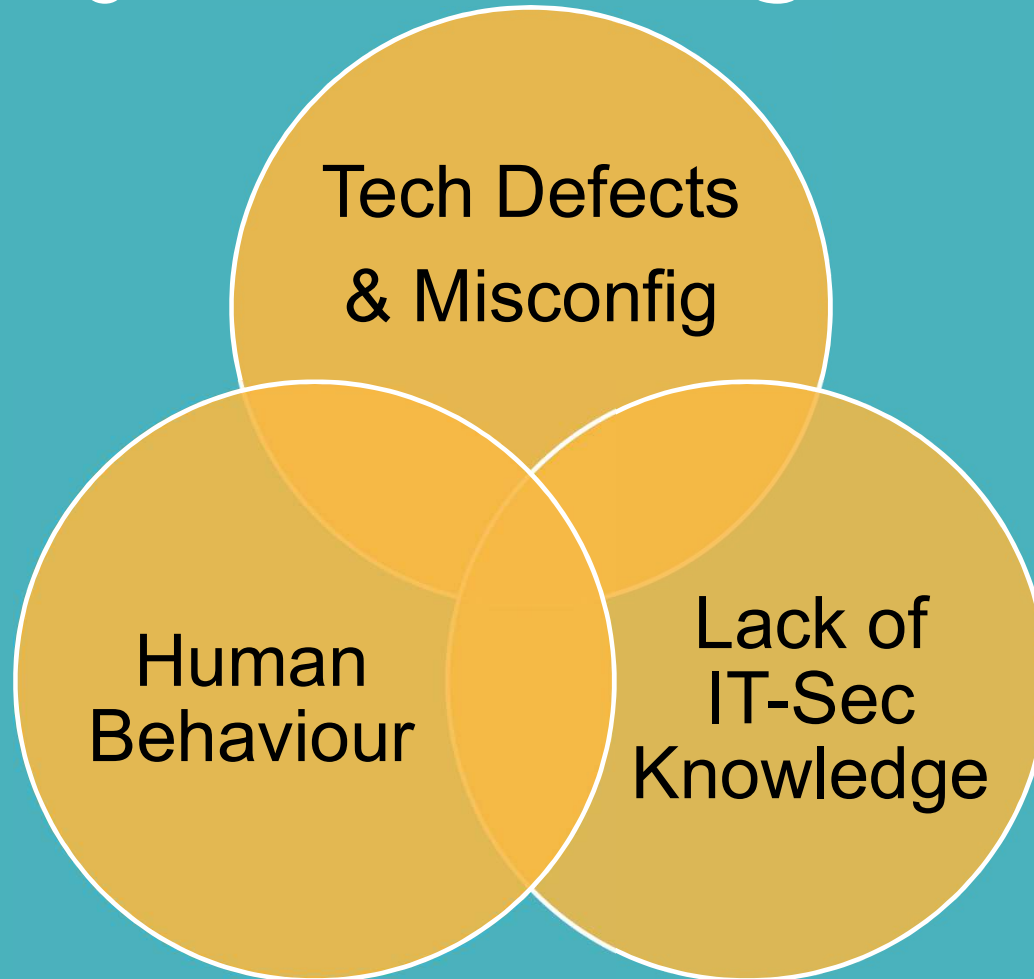
www.jklossner.com

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Klossner



# CONCLUSION

## Why we are being hacked



So what actions can we take  
to counter that?



Train your employees!

# And how do you do that?

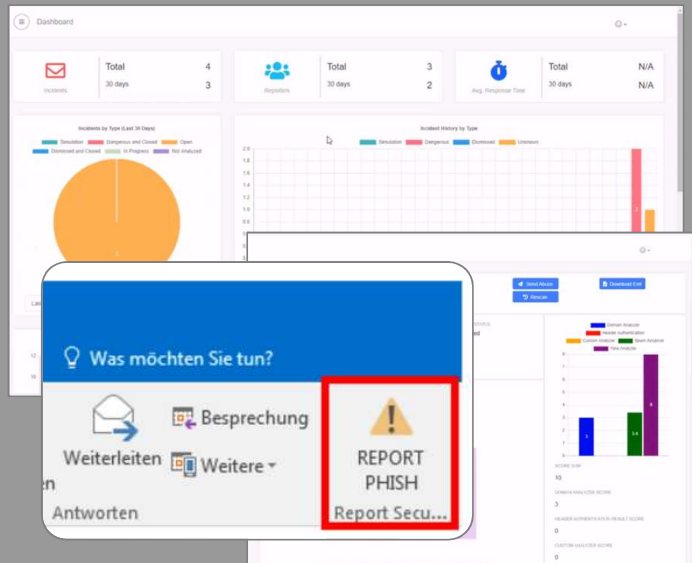


Build an Awareness Program using the right tool

# The 4 Building Blocks of an effective Cybersecurity Awareness Program



## Email Threat Management „Engage, Alert & Analyse“



## Awareness Campaigns „Test & Train“

## Infrastructure Audits „Malware-Sim / Mailfilter Test“

No	Test	Info	Result	Status	Risk	Solution
1	Command & Control	0%	Executed command: whoami	Success	Low	Verify Data
2	Read remote document	0%	C:\Users\user\AppData\Local\Temp\Example-Comma...	Success	Low	Verify Data
3	Access to local administrator	0%	Executed: powershell whoami	Success	Low	Verify Data
4	Access to local admin	0%	Executed: powershell whoami	Success	Low	Verify Data
5	Webcam on	0%	Webcam on	Success	Low	Verify Data
6	Access to local administrator	0%	Access to local administrator	Success	Low	Verify Data
7	Access to local admin	0%	Error occurred: Invalid URL: The hostname could not be par...	Fail	Low	Verify Data
8	Access to local admin	0%	Error occurred: Invalid URL: The hostname could not be par...	Fail	Low	Verify Data
9	Access to local admin	0%	Error occurred: Invalid URL: The hostname could not be par...	Fail	Low	Verify Data

## 4. Reporting

# What to look for when selecting a tool?



✓ It's not just features and a fancy GUI that count!  
→ Price

✓ **Customizable** Training Content

✓ Data Protection / GDPR Compliance

✓ On-Prem or Private Cloud Solution

✓ Full Control over the Solution



# <https://lucysecurity.com/securityawareness/> Scan the QR-Code!



Smarter employees  
Safer companies

Smart training and  
unleashed Human  
Intelligence with L  
Security Awareness



Another LUCY solution  
implemented at:

**HEIDELBERGCEMENT**

#### AT A GLANCE

**Industry**  
Building Materials Group

**Challenge**  
Protection of all employees,  
plants and data while the  
company seems to be a

#### HEIDELBERGCEMENT AG

HeidelbergCement AG is a building materials group listed in the German DAX stock exchange index. The company is one of the top 3 suppliers of cement, ready-mixed concrete and aggregates worldwide. The Group is active in 50 countries, with 50,000 employees and 3,000 locations.



Smarter employees  
Safer companies

Another LUCY solution  
implemented at:



Invented for life

#### AT A GLANCE

**Industry**  
Conglomerate

**Challenge**  
Worldwide Protection of  
employees, plants and data  
across different countries

**Solution**  
• LUCY Ultra Edition On-  
Premise with additional  
Q+A Systems

Bosch use  
internal ph



The majority of cyber attacks specifically use the human vulnerability to gain access to company's IT. More than 90% of all successful attacks are social engineering, with phishing emails being one of the most common methods used by criminals to access employee data and sensitive information.

Security awareness in

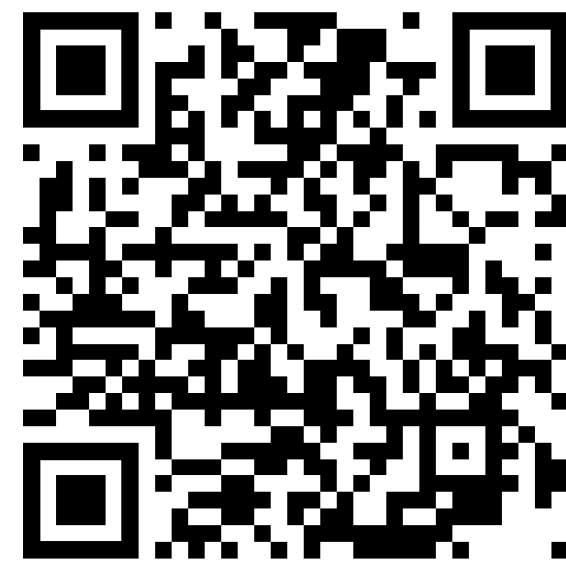


Impiegati più informati  
Società più sicure

Un'altra soluzione LUCY  
implementata da:



Lufthansa Group usa Lucy  
Security per simulazioni di  
phishing in tutto il mondo



#### IN SINTESI

**Settore**  
Aviazione

**Sfida**  
Protezione di tutti i dati  
impiegati, sedi e dati  
considerato che la società  
nel mirino di numerosi  
attacchi di phishing  
criminali informatici

**Soluzione**  
• LUCY Ultra Edition On-  
Premise  
• Campagne di phishing  
formazione in 30 lingue  
(per impiegati in tutto  
il mondo)

**Vantaggi**  
• Intelligence e lavoro per  
sicurezza umana efficace

...ira persone. Le  
uno dei metodi  
minimali per  
azioni per  
pre più società  
e i propri  
sicurezza IT.

... Airlines,  
Services - costi  
ati di lavoro  
a Group  
ie sfide  
da una parte,  
mondo e le  
quisiti diversi in  
sibilizzazione  
a parte, queste  
coordinate e  
preciso dai  
diversi gruppi

# Smarter Employees and a safer company do to an awareness program!



Fallstudien

## Awards



**Claim your personal 20% discount  
at booth 7-301a !**



ITSA Exhibition Partner