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UVEDOMUJTE SI HROZBU VYDIERAČOV, BUĎTE JEDEN KROK PRED NIMI

Tempest
IT makes sense

JUDGMENT DAY 12

Peter Kovalčík
SE Manager, Check Point Software Technologies


WE LIVE
IN AN
AMAZING
WORLD

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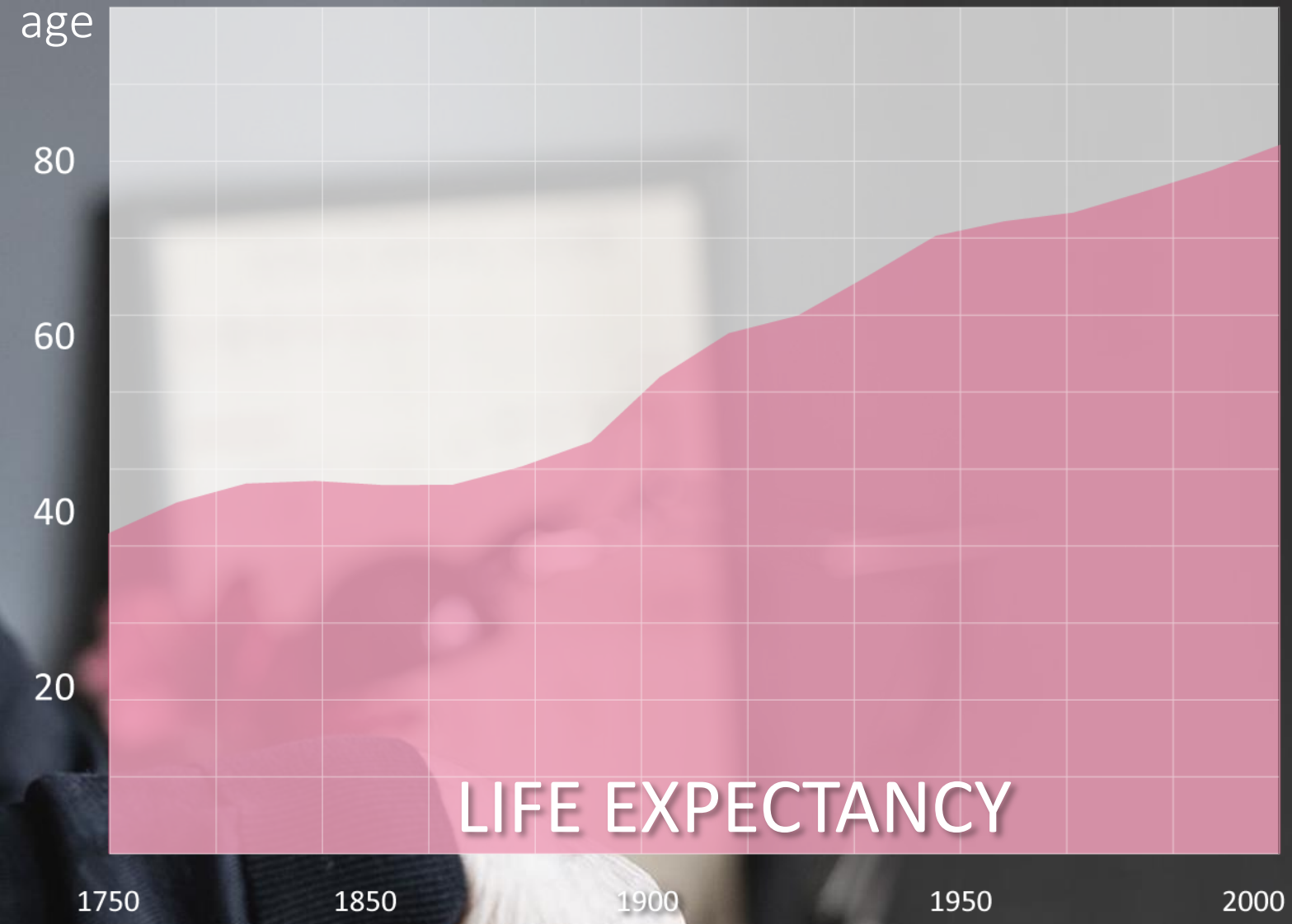
WE LIVE LONGER



Source: ourworldindata.org

WE GET BETTER EDUCATION

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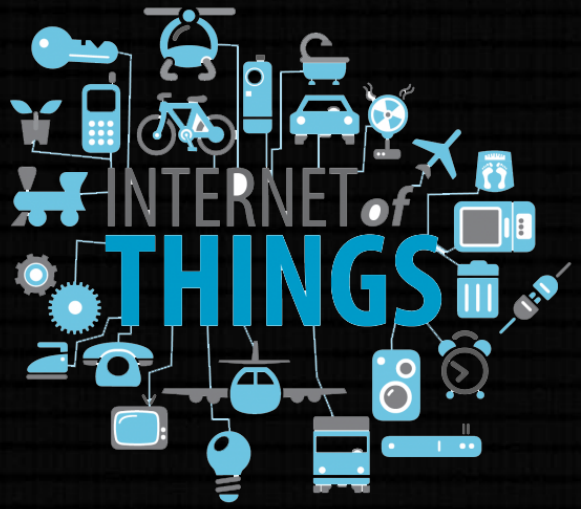
OUR LIFE IS MORE COMFORTABLE

Mobile Devices



IOT

Autonomous systems

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TECHNOLOGY EVOLUTION IS EXPONENTIAL

TAKE **30 LINEAR** PACES…

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30 Meters

TAKE 30 EXPONENTIAL Steps…

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26X

Around the Earth!

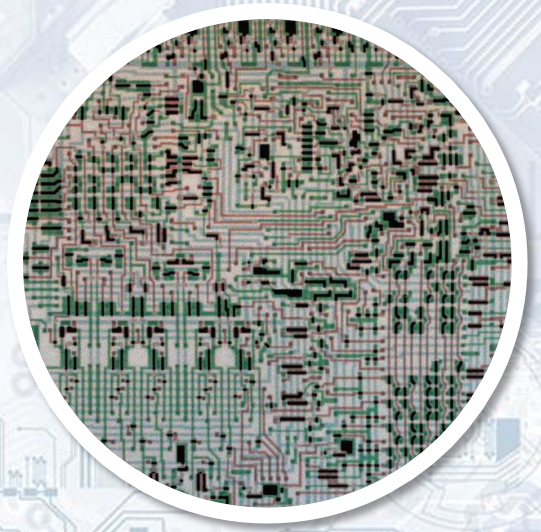
1,073,741,824 Meters

THE FUNDAMENTAL OF EXPONENTIAL TECHNOLOGY

Moore's law

1951

2 Transistors

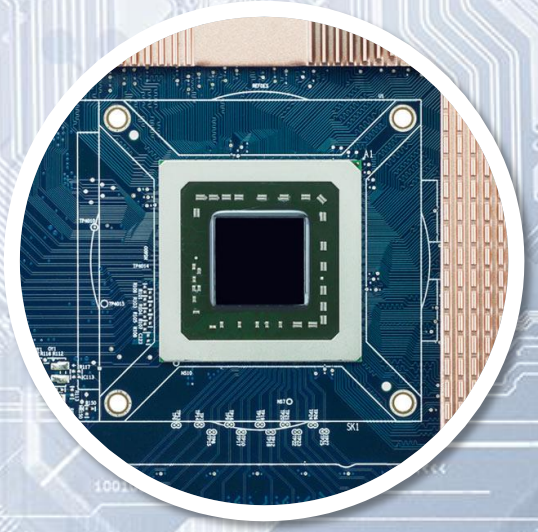


1971

Intel 4004

2300 Transistors

$1



2012

Nvidia GPU

7.1 B Transistors

$0.0000001

NETWORKED SUPERCOMPUTERS IN OUR POCKET

1 iPhone holds 50,000 of these

THE CONNECTED WORLD
5 BILLION NEW MINDS

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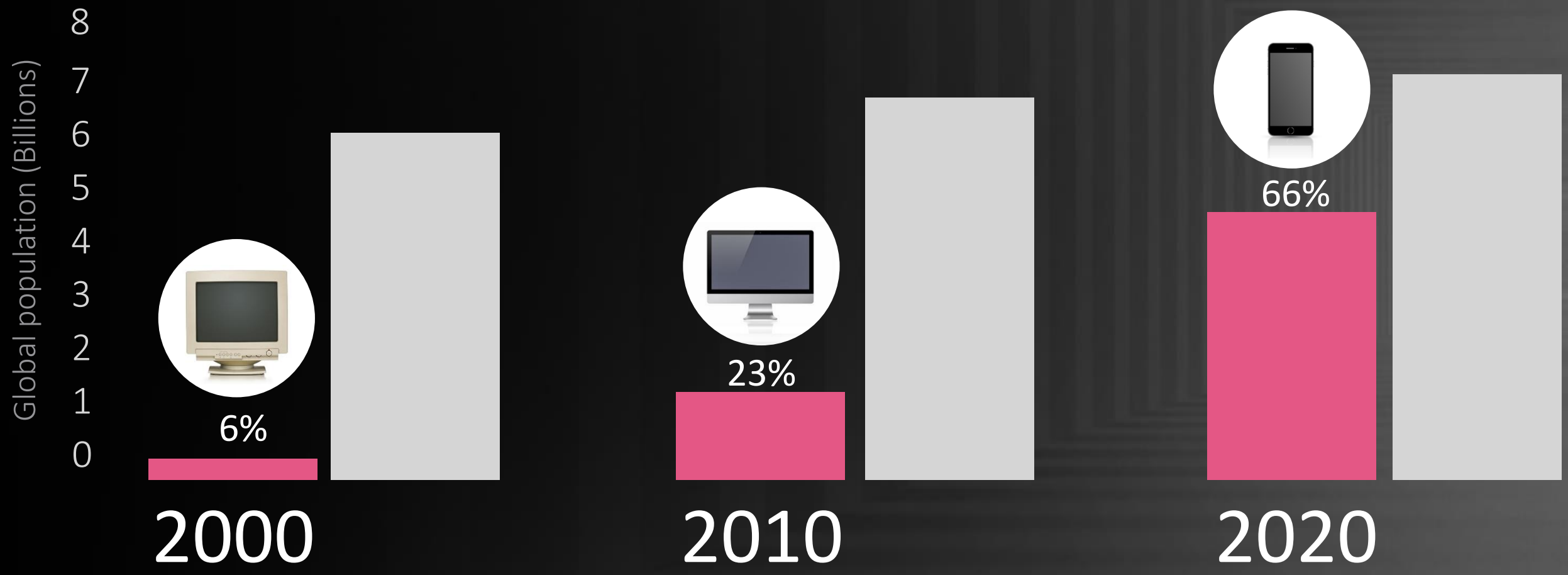
% world population using internet



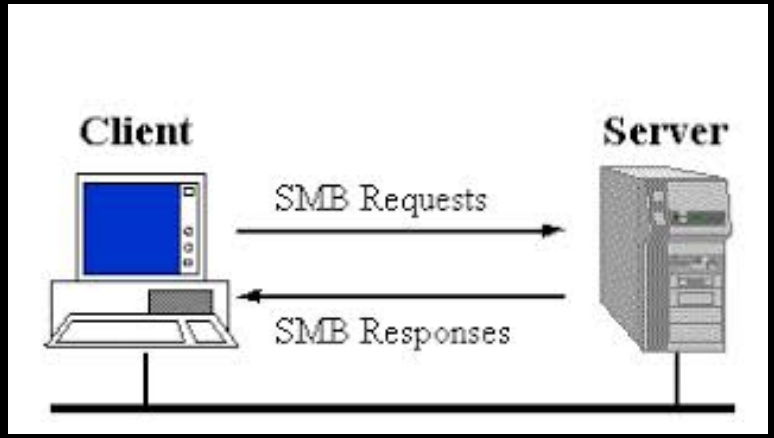
Source: PHD Ventures, Inc.

1 DAY FOR WANNACRY

- More than 150.000 machines infected within single day
- 150 countries affected
- Estimated loss $4 billion USD

Wannacry

- SMB – network protocol mainly used for providing shared access to files, printers, and serial ports and miscellaneous communications between nodes on a network.
- „Weapon-grade“



THE PLAYERS

	CYBER CRIMINALS	STATE SPONSORED CYBER AGENCIES
TARGET	CONSUMERS AND ALL ENTERPRISE Mass infection	CRITICAL INFRASTRUCTURE & LARGE ENTERPRISES Targeted attacks
MOTIVATION	FINANCIAL	POLITICAL
THREATS	UNKNOWN MALWARE	ZERO-DAY
SOPHISTICATION LEVEL	MEDIOCURE	WEAPON GRADE
INVESTMENT	LOW	NATIONAL BUDGETS
EXAMPLES	SAN FRANCISCO MTA, WANNACRY, NOTPETYA, EQUIFAX	UKRAINE POWER GRID, SONY HACK

Monetizácia ?

DoS 2.0 ?

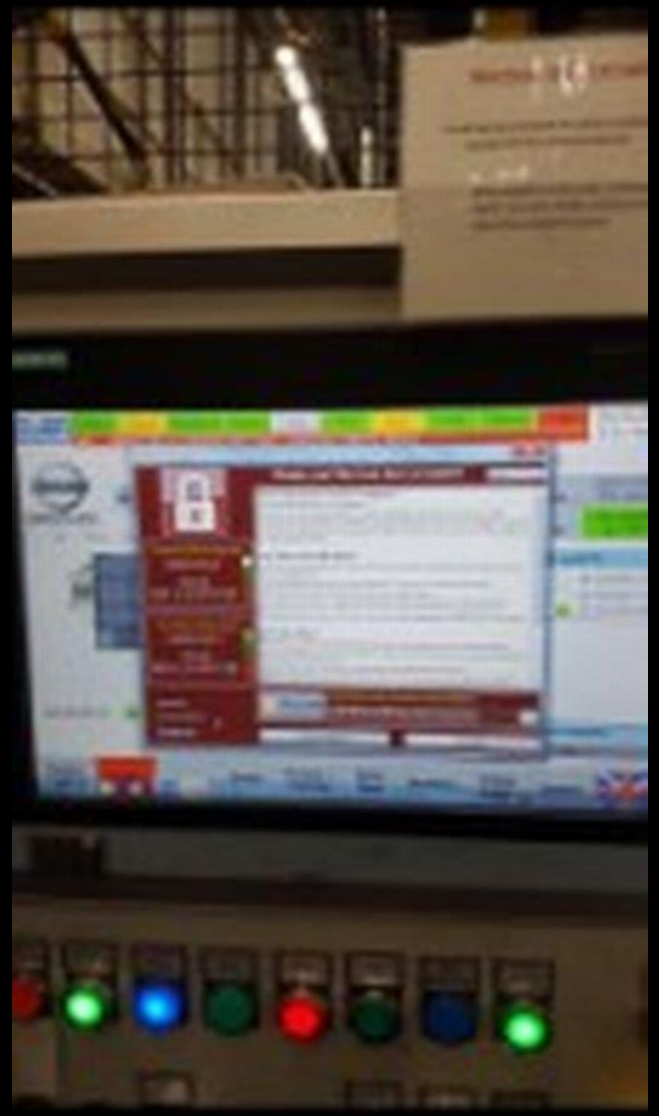
Ransomware

Ransomware

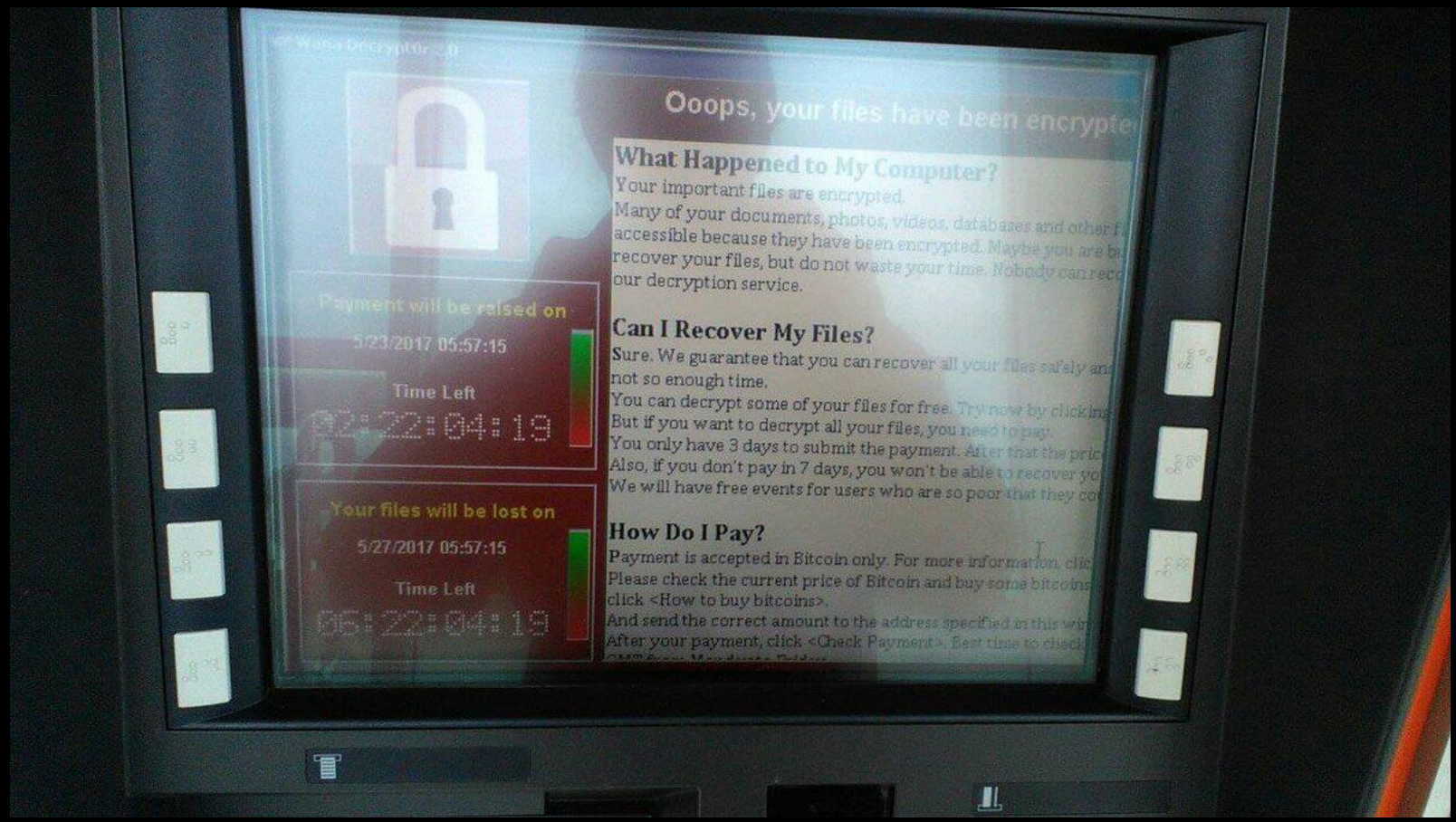

ОЩАДБАНК
терминал тимчасово не працює
терминал временно не работает
temporary out of service
0800 210 800
отримайте
свою картку
безкоштовно
• банк, який вже не ощадить
• близький, зрозумілий та відкрити
• відповідальний та надійний
іністратор

Ransomware

Ransomware



Ransomware


Ooops, your files have been encrypted
What Happened to My Computer?
Your important files are encrypted.
Can I Recover My Files?
How Do I Pay?
Payment will be raised on
5/23/2017 05:57:15
Time Left
02:22:04:19
Your files will be lost on
5/27/2017 05:57:15
Time Left
06:22:04:19

Ransomware


Abfahrt
Linie
Ziel
Zeit
Über
Nach
Gleis
22:10
RB81
Flöha - Pockau-Lengefeld
Olbernhau
8
22:30
RB30
Hohenstein
Hbf
11
22:31
RB30
Flöha - Zsc
(S) Hbf
10
22:36
RB80
g-B. Süd
8
9
2:36
345
Geithain - B
Hbf
5
2:44
6
Einsiedel - Thalheim (Erzgeb)
Aue (Sachs)
14
2:45
Flöha - Freiberg (Sachs) - Tharandt
Dresden Hbf
11
:30
Fährt heute von Gleis 11 -
BMG | MIS

Ransomware

Čo s tým?

PREDCHÁDZAŤ A BLOKOVAŤ !!

PREDCHÁDZAŤ A BLOKOVAŤ !!

Procesy

Technológia

Procesy

- Čo najrýchlejší „Vulnerability patching“ prípadne „virtual patching“
- Nepublikovať SMB do internetu a iné nepotrebné protokoly
- Vysekať (lokálne) privilegované účty na koncových staniciach
- Edukácia užívateľov
- SOC team a reakcia na incidenty, procesy

Technológia

- Blokovať (nie detekovať)
- Segmentácia siete + IPS (primárne internej a DC)
- Chránte koncové body (vektory, protokoly, mobilita)
- Adoptovať nové technológie (Sandboxing, Machine-learning, NG-AV)
- Celková revízia architektury
- Zálohujte

Zhrnutie

- Ransomware = reálna a závažná hrozba „weapon-grade“
- Nie je otázka „či“ ale „kedy“
- Predchádzať a blokovať

„Očakávajte len to najlepšie,
ale budte pripravení na to najhoršie“

Dale Carnegie, spisovateľ a kouč

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IT makes sense

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ĎAKUJEM