MAGENTA SECURITY SHIELD

THOMAS TSCHERSICH

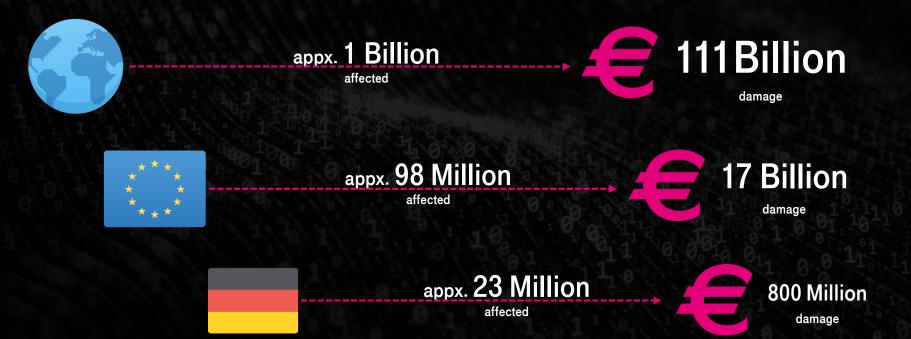
@TTSCHERSICH

SECURITY IS THE FOUNDATION OF DIGITIZATION



...BUTHOW DOES REALITY LOOKLIKE?

DAMAGE TO CUSTOMERS BY CYBER ATTACKS IN 2017*



* Based on Norton Cyber Security Insights Repot 2017.

Inters have a closer Look.

CYBER DEFENCE - ONE MONTH @ DT

771 system vulnerabilities have been detected this month within the corporate network

680.235 attacks against telekom.de from the internet

2.024 viruses have been detected on office workplaces

14 malicious websites have been identified by sandboxing and thereupon blocked companywide at the proxies

624.781 blocked internal requests for malicious URLs

This month **158** issues have been reported to CERT

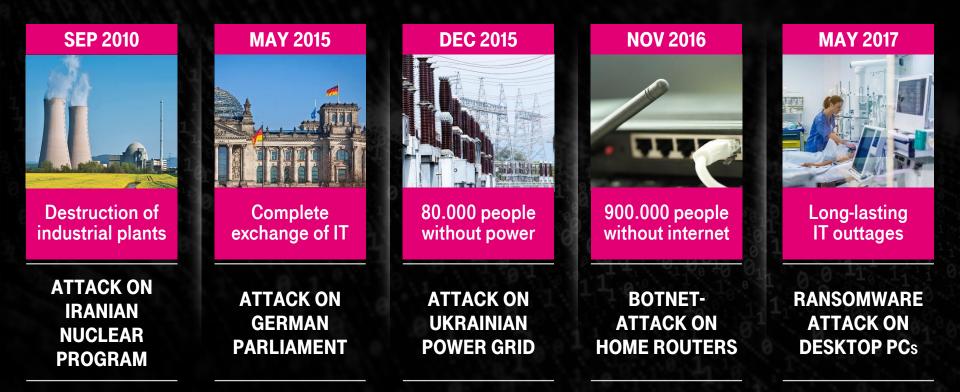
125 vulnerabilities were exposed to the internet

Largest DDoS attack this month had a capacity of **59,18 Gbit/s** **1612** critical attacks against mobile platforms have been detected on company devices

26,9 Bn.

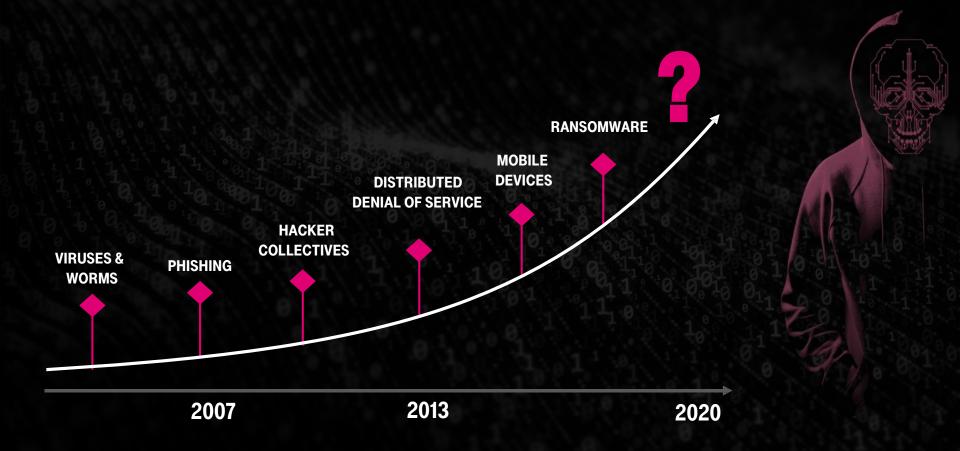
botnet packets have been detected at the fixed and mobile network's backbone

ATTACKS ON CRITICAL INFRASTRUCTURE ARE REAL!



...LET'S TALK ABOUT ATTACK (ER)S----

ATTACKS ARE EVOLVING OVER TIME



VARIOUS ATTACKERS BUT SAME METHODS

	CLASSICAL HACKERS	ORGANISED CRIME	HACKTIVISTS	INTELLIGENCE SERVICES
NOTIVATION €1	Fame and honor, Fun and games	Fraud, Blackmail, Money laundering	Expressing political opinions	Espionage, Sabotage
RESOURCES	Usually individuals	Well-organized groups, Worldwide distribution, Vast funding available	Well-organized groups, Worldwide distribution	State-controlled, "unlimited" funding
EXAMPLES	Defacing websites, Reporting vulnerabilities to the public,	– – – – – – – – – – – – – – Phishing, DDoS, SPAM,	DDoS, information leakage,	- – – – – – – – – – – – – Targeted attacks, DDoS,

...HOW DO THEY WORK?

ATTACKERS ARE WORKING EFFICIENTLY

ATTACKER SENDS E-MAIL WITH INFECTED ATTACHMENT



RECIPIENT OPENS ATTACHMENT AND THE SOFTWARE IS AUTOMATICALLY INSTALLED



CONNECTION TO THE SYSTEM

ATTACKER TAKES OVER CONTROL



FULL SYSTEM CONTROL

3 min

6 min

ATTACKED COMPUTER SETS UP CONNECTION WITH THE ATTACKER (CONNECTIONS FROM INSIDE TO OUTSIDE ARE ALLOWED BY FIREWALL)



ATTACKER CAN ACCESS INTERNAL SYSTEMS AND WORK WITH ALL DOCUMENTS AND PROGRAMS (COPY, MODIFY, DELETE, ETC.)

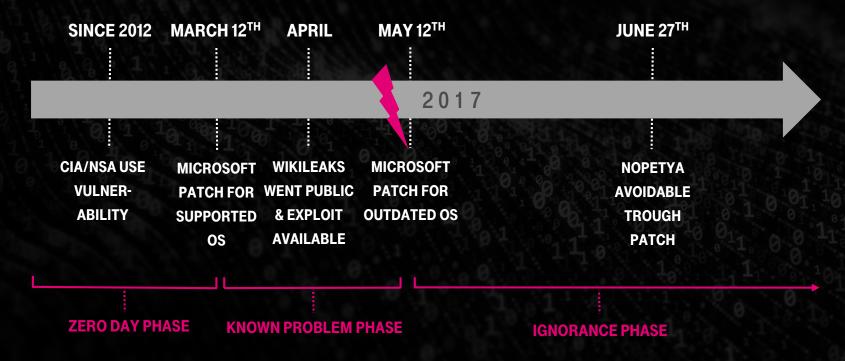


ARE DEFENDERS PREPARED?

HAVE YOU EVER SEEN THAT?



WANNACRY: ANATOMY OF A ZERO-DAY VULNERABILITY



THE ONLY ANSWER IS... TO PATCH!



...IS THERE ANOTHER OPTION 2

RECONFIGURING YOUR FIREWALL ON DEMAND



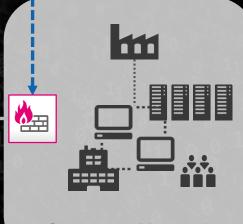
WE CAN OPERATE YOUR FIREWALL TO BECOME FASTER



Threat Intelligence Dynamic Blacklisting IP Filtering Clean DNS

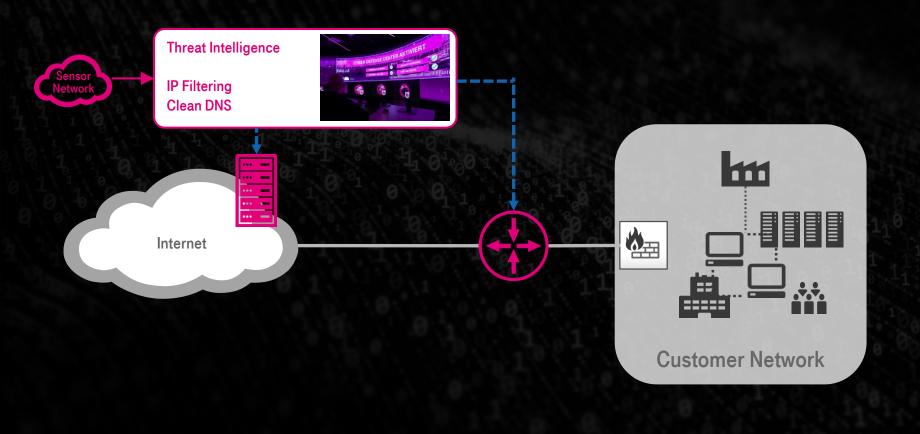




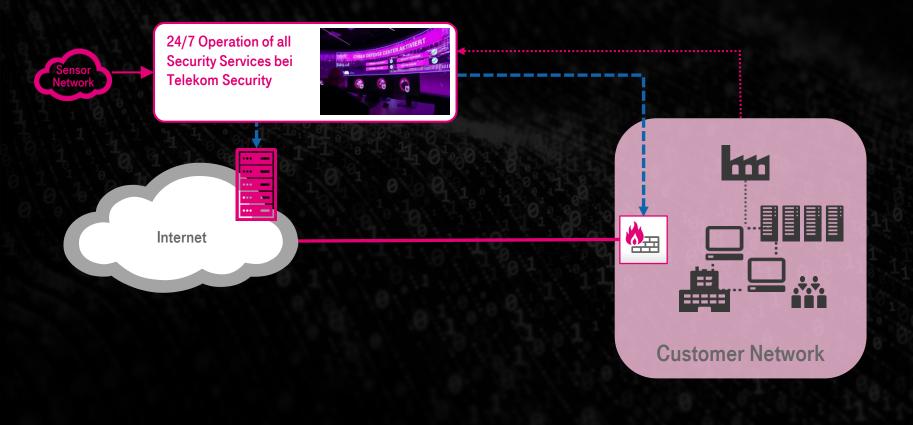


Customer Network

MAGENTA SECURITY SHIELD IN FRONT OF YOUR NETWORK



BEST PROTECTION DUE TO MANAGED CYBER DEFENSE



---INANUTSHELL---

TELEKOM SECURITY SHIELD

Today's security services & mechanism are to slow

Fast detection/response enriched with intelligence is key

We want to win the RACE, you are invited to join us!

We want you to benefit from our knowledge





THANK YOU!

@TTSCHERSICH