

Ransomware

Developments and remediation



Ransomware



Developments worldwide

- IT technology (dependency) increases
- Successful ransomware attacks increases
- Ransomware attacks become more sophisticated and faster







Strategies

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Lapsus\$, a few 16 year old teens, robbed Millions by bribing companies with ransomware and fast; 25 minutes from infection to encryption of the servers.

The young criminals run predefined automated scripts:

- Send an email with attachment (spear phishing)
- The victim opens the document in email
- By using zero day exploits, access rights are obtained (undetected)
- Use "live-of-the-land-techniques" to access other machines
- Install the ransomware on all machines
- Encrypt the files on all machines
- Negotiate about ransom and/or publish sensitive information.

Family	Median Duration
LockBit	00:05:50
Babuk	00:06:34
Avaddon	00:13:15
Ryuk	00:14:30
Revil	00:24:16
BlackMatter	00:43:03
Darkside	00:44:52
Conti	00:59:34
Maze	01:54:33
Mespinoza (PYSA)	01:54:54
Average of the median	00:42:52

Figure 4. Median ransomware speed measured across 10 ransomware families.

Victims with anti-malware in place: Nvidia, Microsoft Azure, Samsung, Okta, Brazil Gov, T-Mobile, Vodafone, UK Gov (among others)

Endpoint protection effectiveness

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Ransomware risks





Poor

Good

Better

Best

Ransomware risks

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Take aways



Consider to uplift your ransomware protection:

- If you feel that you can become the next victim, due to:
 - vulnerable legacy systems
 - lots of vulnerabilities on the network
 - uncontrolled and unmanaged systems/ engineers on your network criminals that are likely to target your company (because of your attractive assets)
- If you do not have sufficient protection place



Thanks



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