Hewlett Packard Enterprise

THE REALITY OF RANSOMWARE

RATE OF ATTACK

1.5 MILLION

51% of organisations report a significant ransomware attack in the previous **12 months** from **May 2020**
(Source: Sophos)

50% of a surveyed **582** cybersecurity professionals do not believe their organisation is prepared to repel a ransomware attack
(Source: Fireeye)

1.5 million new phishing sites are created every month
(Source: Webroot)

One Ransomware-as-a-Service package called Ranion has a subscription payment model costing **$960/yr** or **$1200/six months**
(Source: Bleeping Computer)

Ransomware attacks increased by **235%** in **2019**
(Source: Malwarebytes)

The average time taken to recover from a ransomware attack is now **16 days**
(Source: Coveware)

RANSOMWARE METHODS

8.7% of organisations report being threatened with data disclosure (e.g. releasing confidential information into the public domain) for non-payment of ransomware.
(Source: Coveware)

The table below shows the most common attack methods according to a study by Sophos published in **May 2020**. What stands out when we look at this data is that there is no single main attack vector. Rather, attackers are using a range of techniques and whichever defence has a weakness is how they get in. When one technique fails they move on to the next, until they find a weak spot.

51% of ransomware attacks in **2019** were malware-free, compared to **40%** in **2018**. Malware-free attacks are those in which the initial tactic did not result in a file or file fragment being written to disk. Examples include attacks where code executes from memory or where stolen credentials are leveraged for remote logins using known tools.
(CrowdStrike, 2020)

HOW RANSOMWARE GOT INTO THE ORGANISATION	# INCIDENTS	% INCIDENTS
Via a file dowload/email with malicious link	741	29%
Via remote attack on server	543	21%
Via email with malicious attachment	401	16%
Mis-configured public cloud instances	233	9%
Via our Remote Desktop Protocol (RDP)	221	9%
Via a supplier who works with our organisation	218	9%
Via a USB/removable media device	172	7%
Other	0	0%
Don't know	9	0%
Total	**2538**	**100%**

The average cost of recovery is **$1.4 million** if organisations pay ransom, **$730k** if they don't
(Source: Sophos)

Ransomware cost US businesses more than **7.5 billion** in 2019
(Source: Emsisoft)

The average cost of a ransomware attack on businesses in Q1 20 was **$111,605**
(Source: Coveware)

60% of SMBs hit by ransomware fold within six months
(Source: National Cyber Security Alliance)

COST OF RANSOMWARE

The city of Baltimore estimated the cost of its ransomware attack in May 2019 at **$18 million**
(Source: City of Baltimore)

Swedish shipping firm, A.P. Møller-Maersk, reported estimated losses of **$250-300 million** following a NotPetya virus attack in June 2017
(Source: Maersk)

In 2019, the U.S. was hit by an unprecedented and unrelenting barrage of ransomware attacks that impacted at least **966** government agencies, educational establishments and healthcare providers at a potential cost in excess of **$7.5 billion**
(Source: Emsisoft)

FULL LIST OF RESOURCES

RATE OF ATTACK

1. https://www.sophos.com/en-us/medialibrary/Gated-Assets/white-papers/sophos-the-state-of-ransomware-2020-wp.pdf
2. https://www.webroot.com/us/en/business/resources/threat-trends/sept-2017/utm_medium=pr&utm_source=webroot&utm_campaign=phishingonrise&utm_content=ettreport
3. https://resources.malwarebytes.com/files/2019/04/MWB-CTNT-2019-state-of-malware_FINAL.pdf
4. https://www.coveware.com/blog/2020/1/22/ransomware-costs-double-in-q4-as-ryuk-sodinokibi-proliferate
5. https://www.bleepingcomputer.com/news/security/ranion-ransomware-as-a-service-available-on-the-dark-web-for-educational-purposes/
6. https://www.fireeye.com/offers/rpt-cyber-trendscape.html

RANSOMWARE METHODS

1. https://go.crowdstrike.com/rs/281-OBQ-266/images/Report2020CrowdStrikeGlobalThreatReport.pdf
2. https://www.sophos.com/en-us/medialibrary/Gated-Assets/white-papers/sophos-the-state-of-ransomware-2020-wp.pdf
3. https://www.coveware.com/blog/2020/1/22/ransomware-costs-double-in-q4-as-ryuk-sodinokibi-proliferate

COST OF RANSOMWARE

1. https://www.sophos.com/en-us/medialibrary/Gated-Assets/white-papers/sophos-the-state-of-ransomware-2020-wp.pdf
2. https://blog.emsisoft.com/en/34822/the-state-of-ransomware-in-the-us-report-and-statistics-2019/
3. https://www.coveware.com/blog/q1-2020-ransomware-market-place-report
4. https://www.sec.gov/news/statement/cybersecurity-challenges-for-small-midsize-businesses.html
5. https://www.shrm.org/resourcesandtools/hr-topics/technology/pages/ransomware-attack-will-cost-baltimore-18-million.aspx
6. https://blog.emsisoft.com/en/34822/the-state-of-ransomware-in-the-us-report-and-statistics-2019/
7. http://investor.maersk.com/static-files/250c3398-7850-4c00-8afe-4dbd874e2a85