



Cyber Threat Awareness



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“Hackers only need to get it right once; we need to get it right every time.”

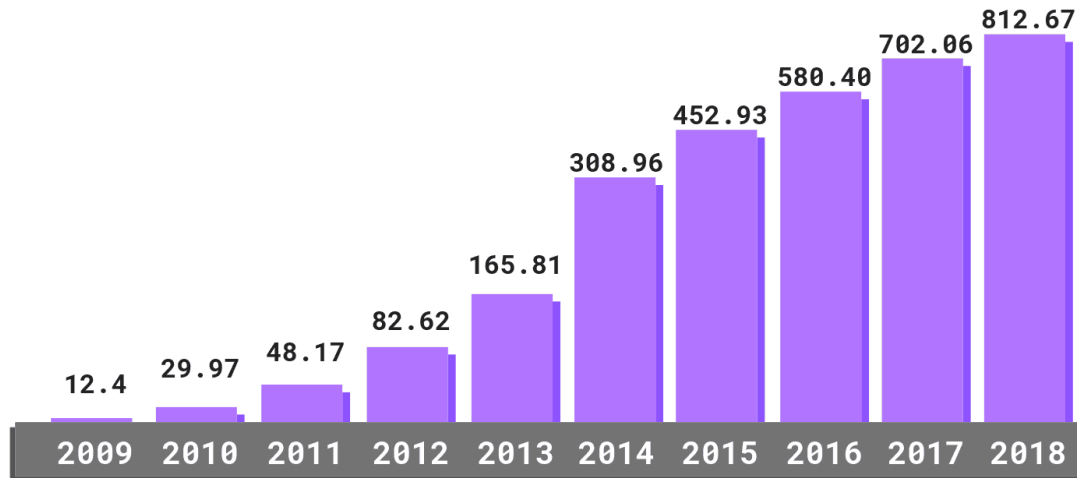
- Chris Triolo



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Total Malware Infection Growth Rate (In Millions)

Every Year Malware infections increases in the millions!



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Malware

- Ransomware attacks rose 350% worldwide in 2018
- The U.S. accounts for 54.9% of malware attacks
- 47% of malware attacks target smaller organizations
- 85% of small businesses need to improve cyber security
- Everyday 230,000 new malware samples are created



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Ransomware

- Ransomware is the biggest malware threat
- 70% of all malware payloads were ransomware
- 75% of organizations that were infected with ransomware had up to date endpoint protection
- In 2021, ransomware attacks occur every 11 seconds
- Average down time for an organization infected with ransomware is 21 days



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Cost

- Average ransomware fees have increased from \$5k in 2018 to \$200k in 2020
- In 2021 the world record for largest ransomware payout was set at \$40 million
- “Ransomware cost businesses more than \$75 billion per year.”
- HIPPA violations range from \$10K to \$50k per violations depending on willful neglect



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NG 911

- New services will create new vulnerabilities
- Text
- Videos
- Images
- Wearable medical devices
- Car computers
- Building alarms



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Case Study

- Dr. Mordechai Guri conducted an evaluation on the impact of a DDoS attack against E911 and NG911 infrastructure in North Carolina
- Using 6k bots he was able to block 20% of land line callers and 50% of mobile callers
- With a TDoS attack researchers estimated it would take 200k bots to “jeopardize the entire U.S.” 911 infrastructure



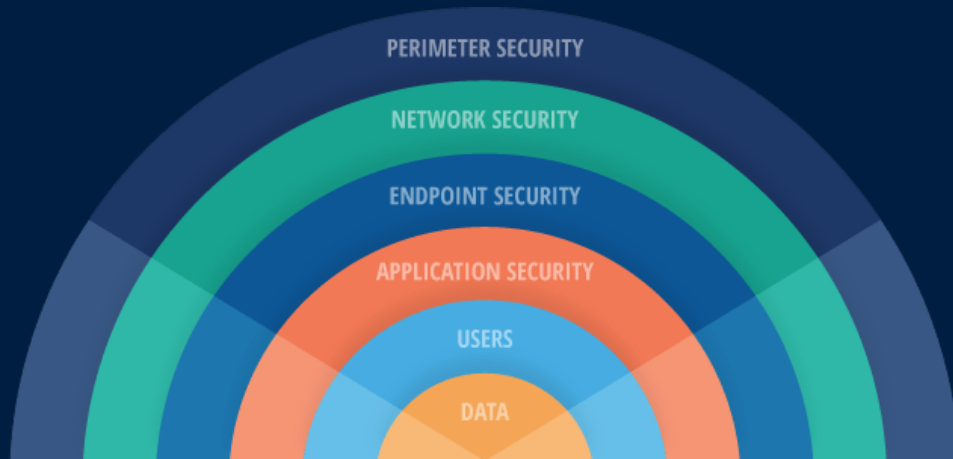
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Defense in Depth



- Layered security
- Redundant security
- There is no one tool protects all
- Firewall
- Endpoint protection
- Network monitoring



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Benefits of Proper Cyber Security

- Quicker to respond to an attack
- Ability to find the core issue
- Prevention/proactive response instead of reactive
- Deters less sophisticated attackers
- Less downtime
- Save money in the long term



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Questions?



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Sources

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