



Cybersecurity in Healthcare

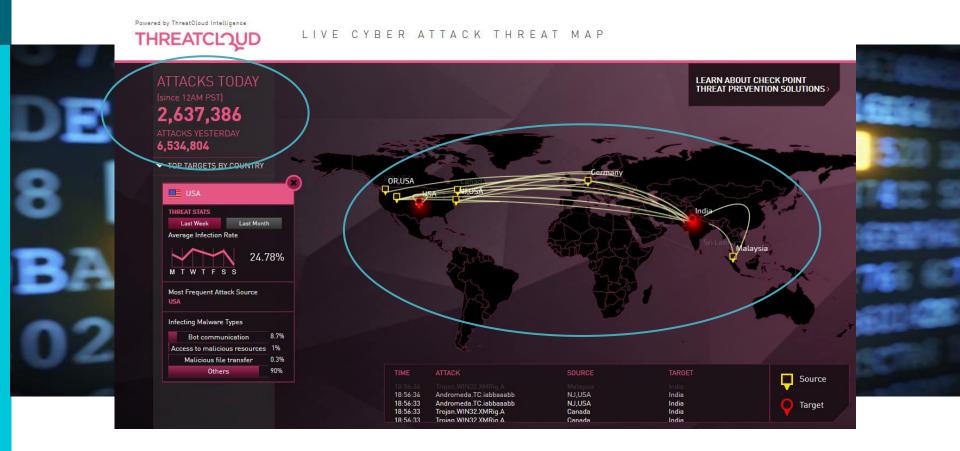
The Digital Patient & Data Protection

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Digital transformation opens up the door for cyber attacks...



Digital context of healthcare cyber attacks



Note: articles are showed partially

Data breaches, how do they impact patients?

Personal Health Information facilitates all types of crimes...

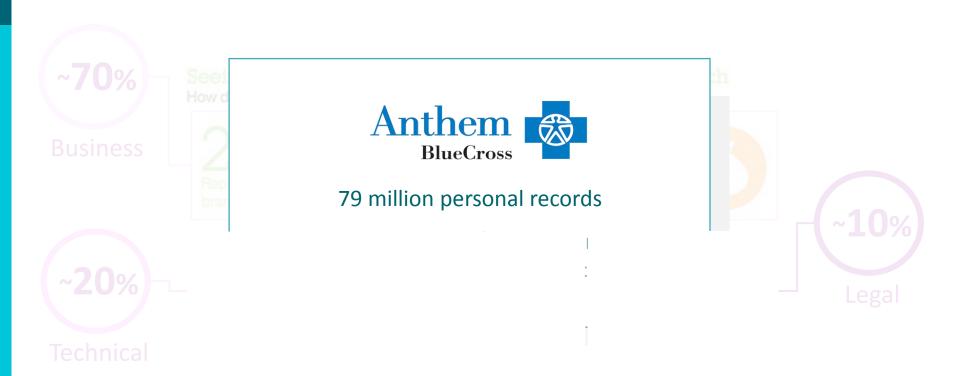
- Fraudulent prescriptions
- Identity theft
- 3rd party medical care in victim's name
- Public knowledge
 - Cyberbullying
 - Blackmail



Victim patients are informed of identity theft only when they received collection letters...

Sources:

Data breaches, how do they impact companies?



Sources:

- 1. 2017 Ponemon Cost of Data Breach Study, IBM
- 2. https://thenextweb.com/security/2014/11/11/tightening-social-media-security/

Why?



Business...

In general, cyber crime damages will cost the world \$6 trillion annually by 2021, up from \$3 trillion in 2015

In this context, patient data is particularly relevant as healthcare-related data has more value than other types of personal information



Sources:

- 1. Cybersecurity ventures
- 2. https://www.experian.com/assets/data-breach/white-papers/consequences-medical-id-theft-healthcare.pdf

How is it done – data breaches?



What are they looking for?







Example of how an attack is designed



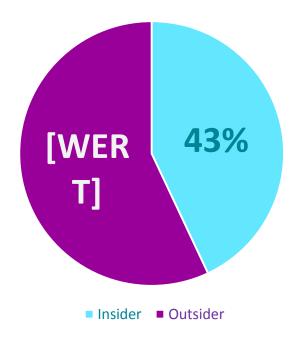
Professionals...





Reality around the origin of data breaches is...





... which generates the need of focus protection not only on data security controls, but also on user awareness









Conclusions

With digital transformation, healthcare organizations are faced with the challenge of protecting patients' information, and...









... results will be obtained!



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What can patients do to help protecting their information?









- Caution with emails
- Do passwords changes frequently and don't repeat the same password between services
- Have a anti-virus on your device
- Be careful with what information you put on the social networks

- Update patches (cover known vulnerabilities)
- Protect information with security controls (access control, encryption, secure collaborative tools, etc.)
- Update and maintain security policies, including compliance
- Have an incident plan in place