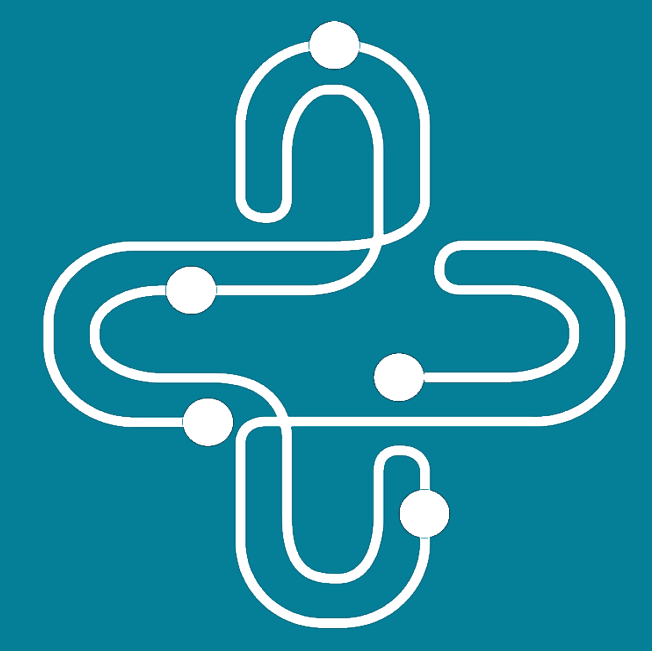


Health vs Hackers

Landscape 2020-2021



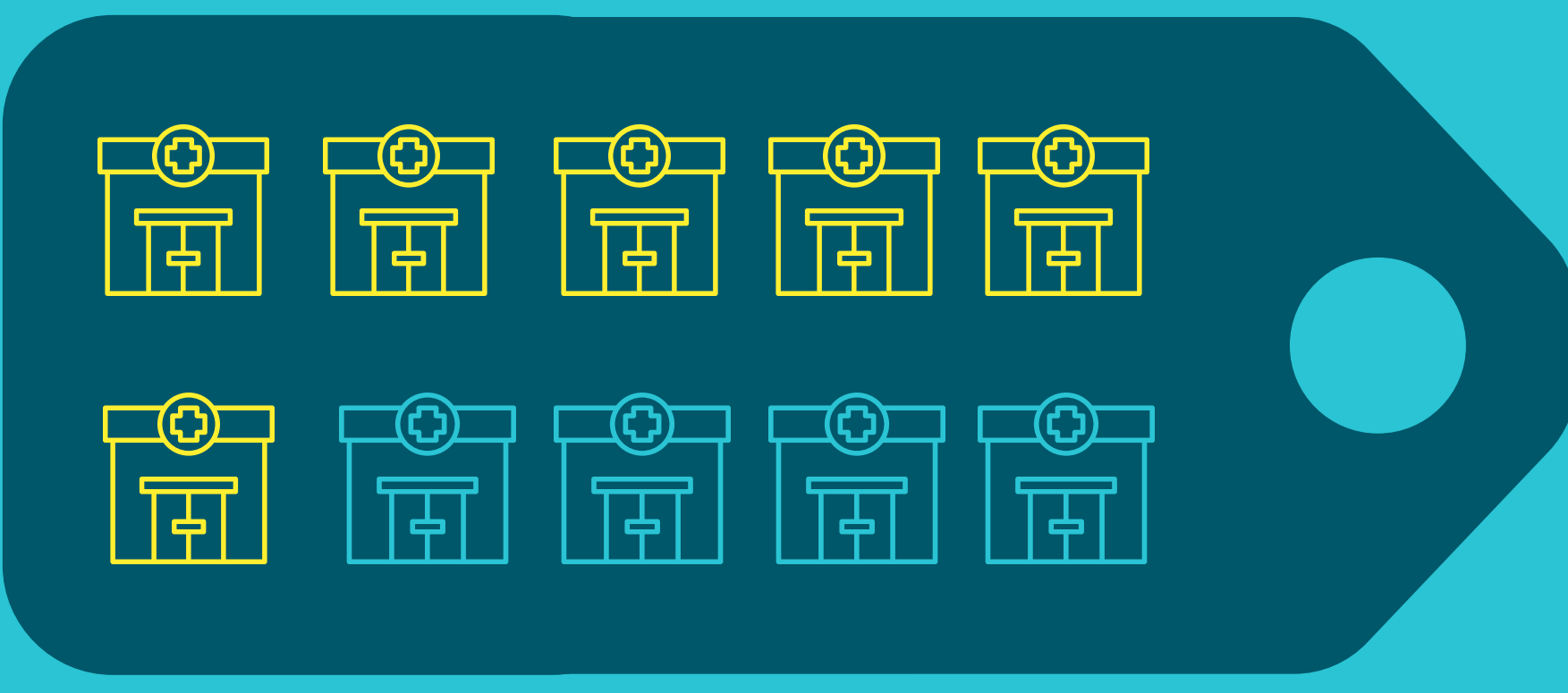
ASCLEPIOS

Healthcare has been the 4th most targeted sector by cyberattacks according to ENISA's 2021 Threat Landscape

Let's see what shaped cybersecurity in healthcare during the past two years

58%

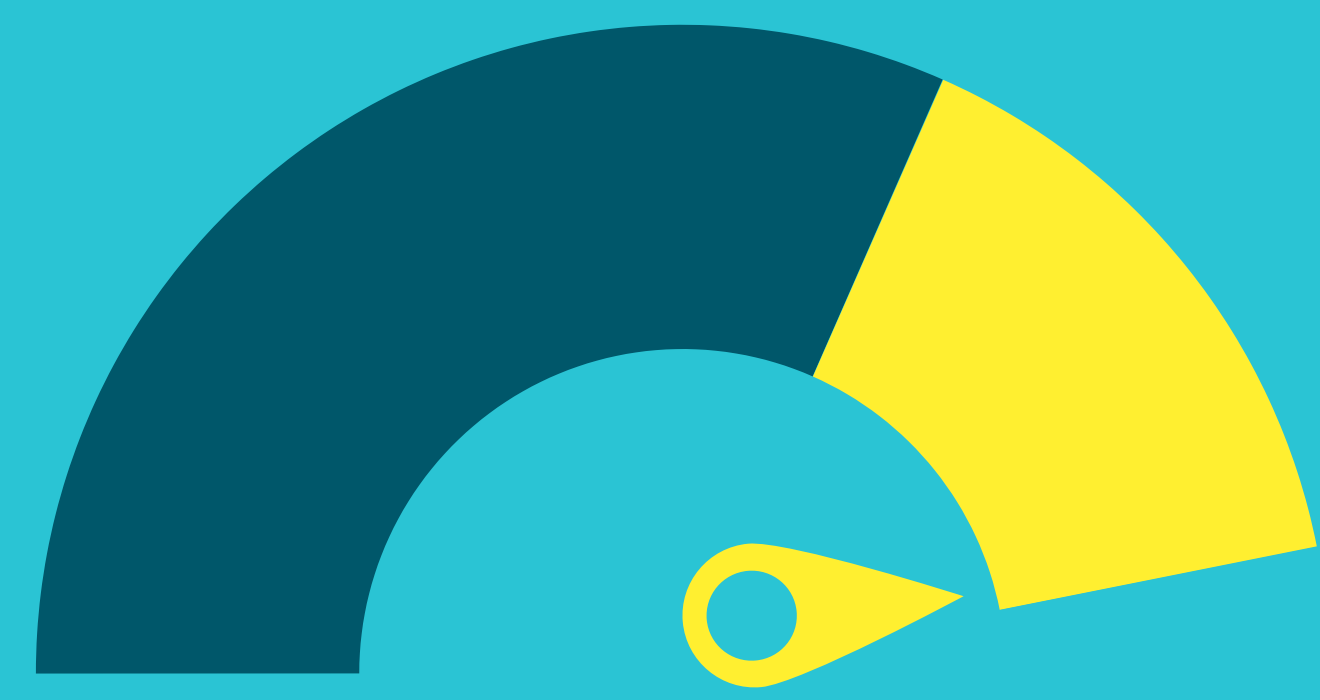
of IT pros in healthcare stating that their organization has been hit with ransomware in 2021



From the 91% of medical providers that have adopted telehealth solutions

44%

started after the COVID19 outbreak

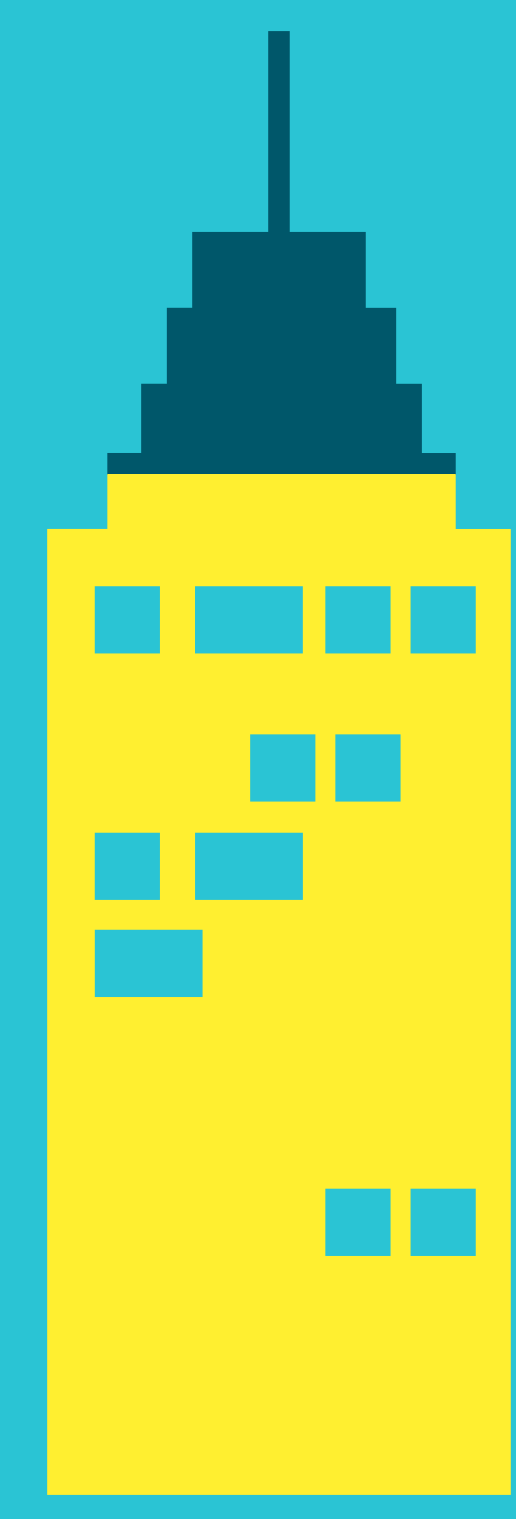


The top 5 Ransomware Groups in healthcare for Q3 2021 (Globally) were



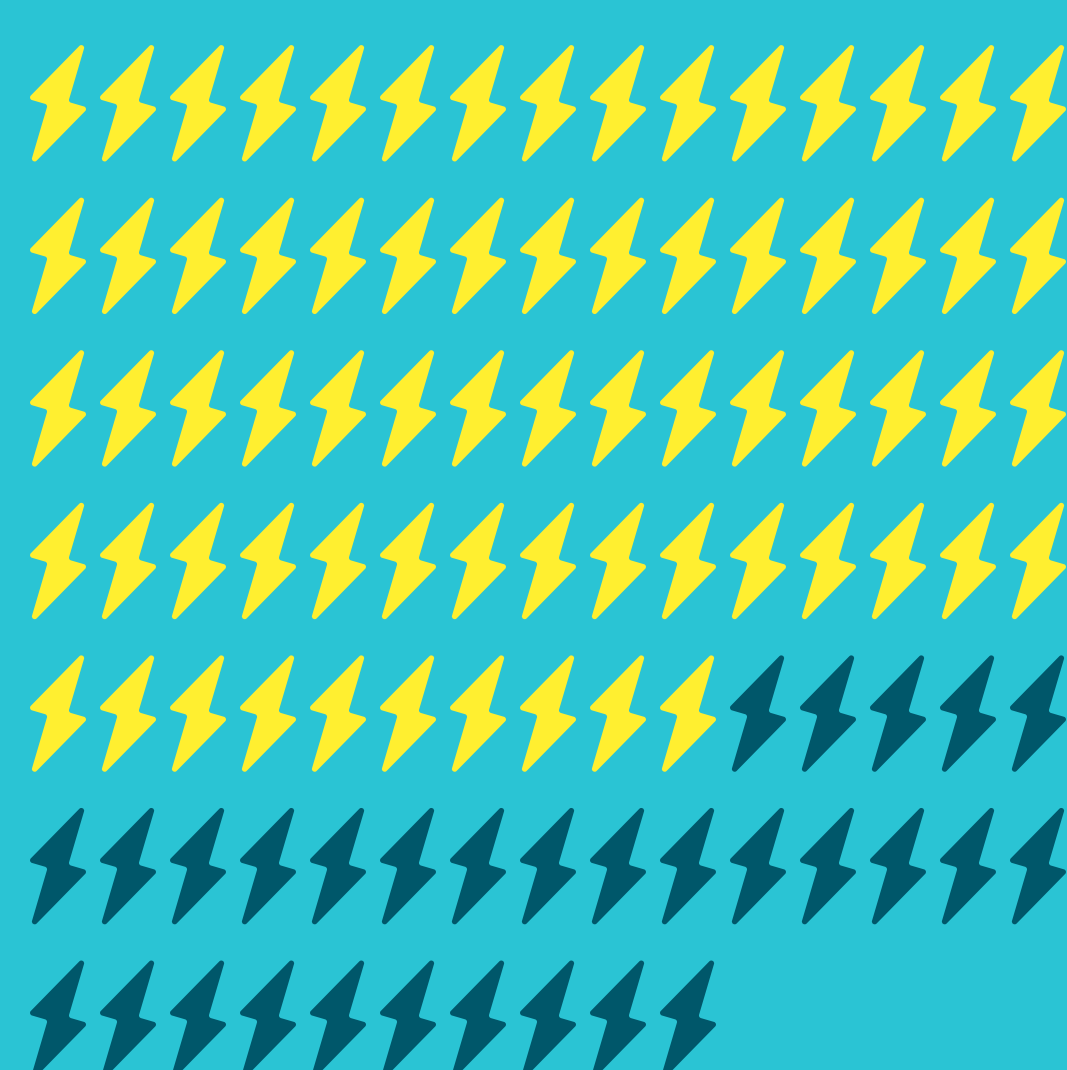
90%

of US healthcare providers have an external attack surface of above 30 (out of 58.4) - meaning they are 'critically exposed'



mHealth apps with at least one serious vulnerability that could lead to a breach of medical data add up to

71%



11,678,081 records

have been affected by a data breach during 2021 globally



On the dark web*

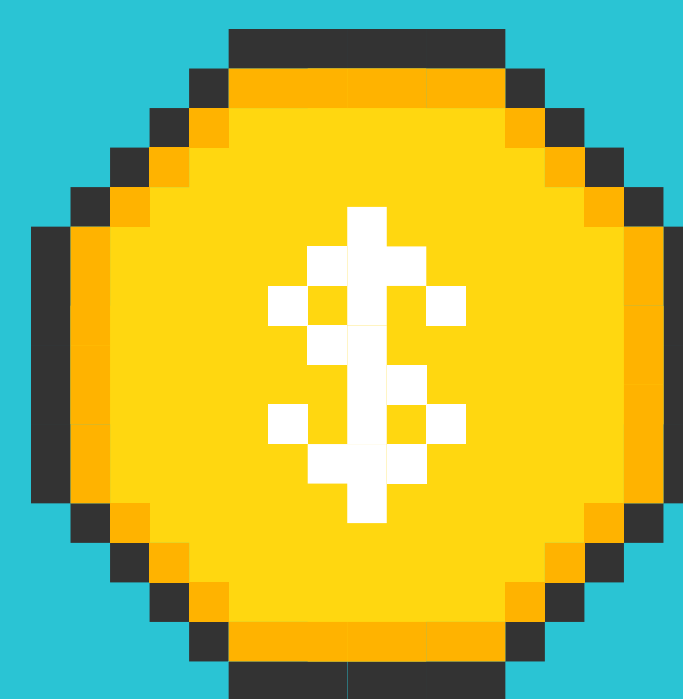
900€

for a complete medical record

90€ for a credit card number

0.9€ for a social security number

*initial values in source in USD



Midsized Hospitals

Big Hospitals

41.130€**

19.350€**

**losses per hour of downtime due to cyberattack

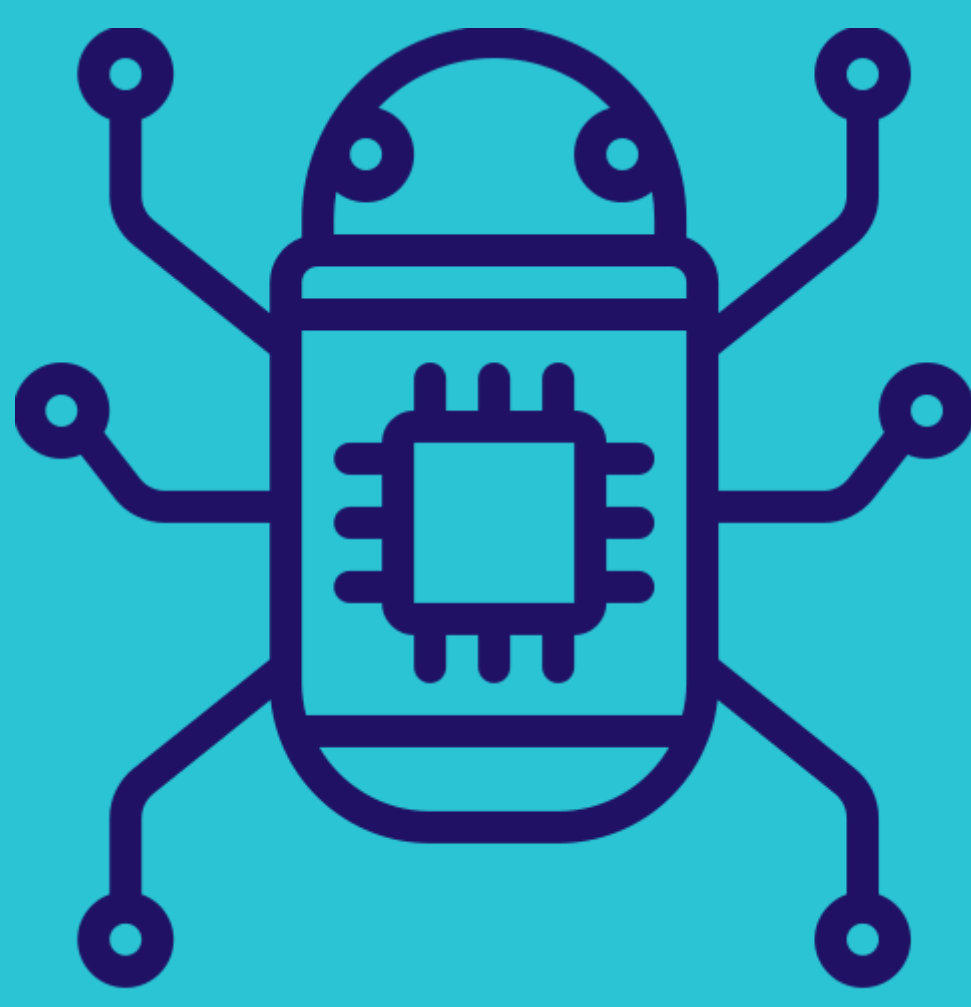
Threats that will keep us busy in 2022

Ransomware

Phishing

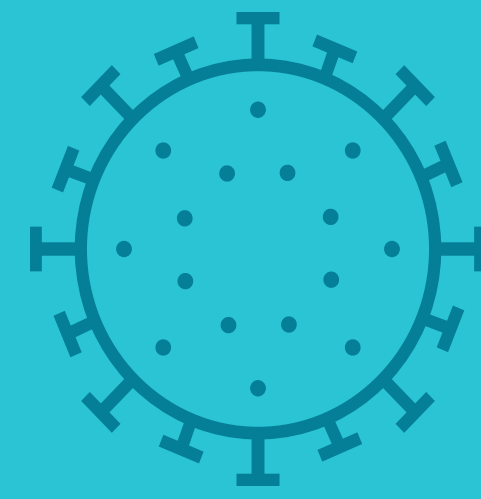
3rd-party Risks

Medical Device Vulnerabilities



5 Solutions for healthcare data security

- Access Control
- Encryption
- Anonymisation
- Blockchain
- Steganography



93% of respondents to EU survey believe that "Citizens should be able to manage their own health data" while 83% either agree or strongly agree that

"Sharing of health data could be beneficial to improve treatment, diagnosis and prevention of diseases across the EU,"



The [ASCLEPIOS project](https://www.asclepios-project.eu/) enables secure and privacy-preserving healthcare data sharing with the application of novel cryptographic schemes,

attribute-based access control and the use of functionalities offered by **Trusted Execution Environments**



<https://www.asclepios-project.eu/>

Source

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