

digitalhealth

**REWIRED**

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Headline Sponsors:




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Director – National Cyber Operations  
NHS England

# The Evolving Threat

## 2017 WannaCry



Diverted patients and paper notes: A doctor describes the impact on his hospital

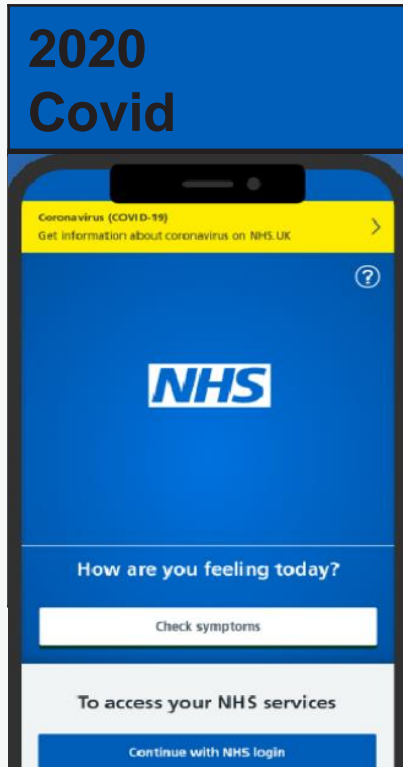
### NHS cyber-attack: GPs and hospitals hit by ransomware

33 mins ago | Health

A major incident has been declared after NHS services across England and Scotland were hit by a large-scale cyber-attack.

Staff cannot access patient data, which has been scrambled by ransomware. There is no evidence patient data has been compromised, NHS Digital has said.

## 2020 Covid



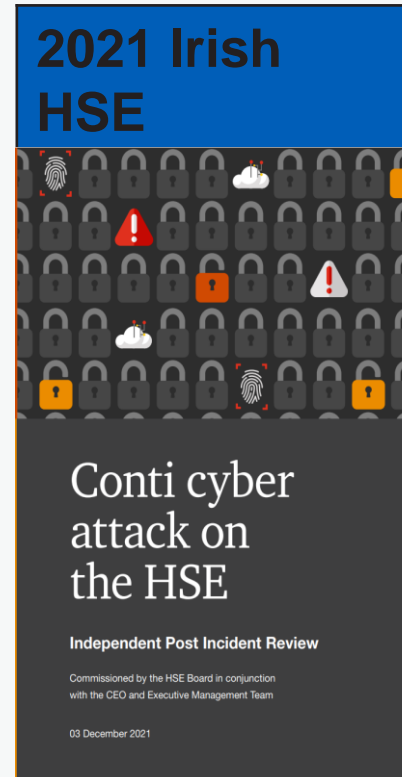
How are you feeling today?

Check symptoms

To access your NHS services

Continue with NHS login

## 2021 Irish HSE



### Conti cyber attack on the HSE

Independent Post Incident Review

Commissioned by the HSE Board in conjunction with the CEO and Executive Management Team

03 December 2021

## 2022 Advanced



The National Crime Agency said it was aware of the incident and is working to better understand it

### Major NHS computer outage caused by cyber attack

2 hours ago | Wales

A major outage of some NHS services across the UK was caused by a cyber-attack, it has been confirmed.

Advanced, a firm that provides digital services for NHS 111, said the attack occurred at 07:00 BST on Thursday.

The attack impacted the NHS 111 phone service, and prevented patients being referred to out-of-hours GPs.

The National Crime Agency said it was "aware of a cyber incident" and is working with Advanced.

# Defending as One – Central Support

Centralised Monitoring:  
CSOC

Security Toolkit:  
DSPT

National Alerting:  
HSA

Regulations:  
NIS

Central Support:  
NHSE CSOC



Internal security

**100**

Security Champions

Across NHS Digital we have 100 security champions who are actively engaged. They act as ambassadors within their teams and regularly take part in security activities



Data Security and Protection Toolkit

**41k**

submissions

Over 41,000 organisations submitted a DSPT return; the online self-assessment tool that allows organisations to measure their performance against the National Data Guardians standards



Incident volumes

**300%**

rise in cyber incidents

Since 2019 there has been a 300% rise in incident volumes; requirement to scale-up and increase automation



Cyber Associates Network

**2100**

CAN members

Peer to peer network aimed at improving cyber security across health and social care. Giving opportunities to discuss key issues in a safe space and learn from each other



High severity alerts

**15**

High severity alerts

A 54% increase on the previous year's high severity alerts. These are cyber security alerts that require immediate action to prevent damage to the network



Protecting the NHS

**23.2bn**

transactions

Protection of 23.2 billion transactions over a five day period through NHS Secure Boundary



Protecting patients

**Several**

Significant attacks

The cyber security operations centre prevented significant ransomware attacks that could have severely impacted patient care



Security education

**5k**

downloads

Over 5000 downloads of security awareness materials from our Keep IT Confidential campaign. Topics include: social engineering, passwords, tailgating and be aware of what you share.



Devices protected

**1.9m**

devices enrolled

Devices enrolled onto Microsoft Defender for Endpoint which feeds directly into the cyber security operations centre enabling them to detect nefarious activity across the NHS network



Blocking malicious activity

**21m**

malicious items a month

On average CSOC blocks over 21 million items of malicious activity every month, Working directly with local team to respond to the cyber threats



Prevention

**5**

global scale attacks

5 global scale attacks prevented before anyone else noticed it was happening



Active defence

**5m**

transactions a week

We actively monitor and protect devices across the NHS and work directly with local teams in response to cyber threats

# Cyber Futures – The Strategy

**Our Vision: An NHS and social care system that is resilient to cyber-attacks**

