



KryptoKloud
Security Made Simple

SECURING YOUR ORGANISATION

FOR: **LINCA MEMBERS**

BY: DR. RONA MACKENZIE

DATE: **31ST MARCH 2021**





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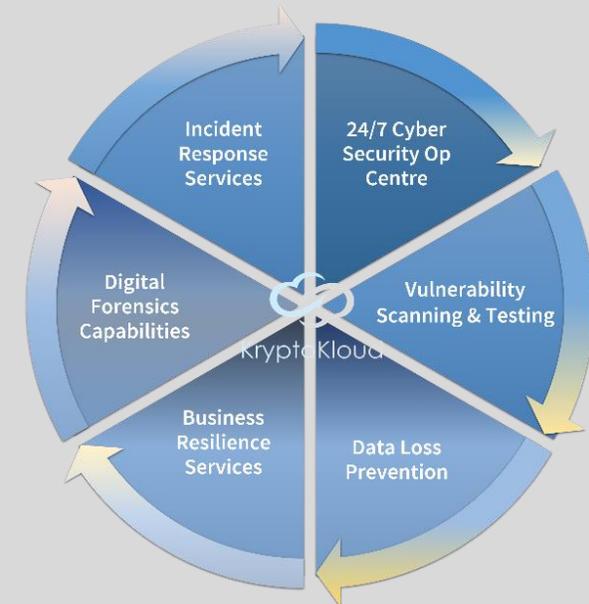
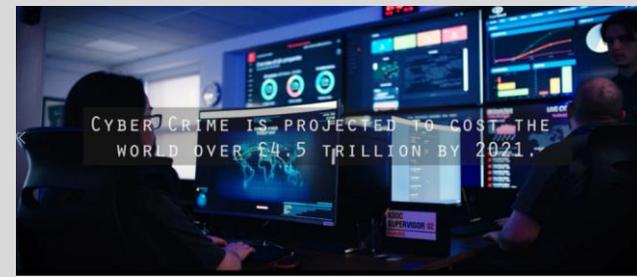
Who are KryptoKloud?

- KryptoKloud is an independent cyber operations and intelligence company, established in 2016.
- Operating from our 24/7 Cyber Intelligence Centre, we provide effective cyber operations and consultancy services to a global portfolio of clients.
- We focus on simplifying cyber security for our clients.
- We utilise our own products and reputational analysis platforms as well as industry-leading third party products and platforms to support customers.
- Clients include leading international pharmaceuticals, global logistics organisations, renewable energy experts, defence manufacturers, care providers, legal, financial and investment companies.
- KryptoKloud also provides a cyber capability to a leading Lloyds of London Cyber Insurance body allowing the company to further expand its client base and be introduced to a new national audience.

KryptoKloud - Monitor | Detect | Prevent | Protect

"I was, and continue to be, hugely impressed with the depth of protection provided by KryptoKloud. When tasked with sourcing a cyber security partner for OSR, it was essential that any potential suitors were not only great providers of protection services, but also great advocates for the betterment of cyber security and I believe that suite of KryptoKloud services exercise both in abundance."

Freddy Knight, OSR Innovation Director





What is Cyber Security?

- Activities and technologies that defend your assets and interests to reduce the risk of a cyber attack:
 - **Protect** the devices we use and the services we access from theft or damage
 - **Prevent** unauthorised access to personal information stored online and on devices.



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Patient care records are
more valuable
than credit card details
on the black market





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NHS Response: 'Protect Patient Data' Campaign

Good data and cyber security is our **shared responsibility**.

Individual health and care **organisations** are **accountable for their own cyber security**. All staff across the NHS have a role to play.

Falling victim to cyber and security threats, including phishing, password theft, tailgating and social engineering, will have a **direct impact on our patients**.

If it doesn't feel right, report it.

<https://keepitconfidential.nhs.uk/>



Protect Patient Data

From offline to online,
keep I.T. confidential





The NHS Data Security Protection Toolkit (DSPT)

The DSPT is designed to provide assurance that users are practising **good data security**, and personal **information is correctly handled**.

But:

- It is **not** always **accurately completed** with full understanding of the questions asked
- It seen as a **regulatory burden** rather than a springboard for better, safer, digital activity
- Toolkit completion is completed as a one-off, stand-alone exercise by an individual **without sustainable implementation throughout the organisation**
- There are **no questions** in the toolkit for providers about two of the areas of greatest risk identified: **backups and passwords**.
- Publication of the DSPT to Standards Met **does not** necessarily prompt social care providers to take **comprehensive cyber security measures**.

Beware:

- The DSPT and Cyber Essentials **do not** provide reassurance that your organisation is safe and protected from cyber threats.



How worried should we be?

- **67%** of UK **healthcare organisations** suffered a cyber incident in the last year
- From March-June 2020, the NHS received **41,624 malicious emails**
- In March 2020, Quality Compliance Systems who provide compliance management systems to over **4,000 UK care homes** were targeted in a phishing attack
- Health care is the only industry globally where **employees** are the biggest cause of data breaches:



48%

Viruses or malware from third party devices including USB sticks



37%

Users not following protocols or data protection policies



39%

Employees sharing information with unauthorised recipients



28%

Clicking on malicious links on emails and social media



Test and Trace

This is a public health message from NHS

As part of the government's coordinated response to Coronavirus, NHS is performing selections for coronavirus vaccination on the basis of family genetics and medical history. .

You have been selected to receive a coronavirus vaccination.

Use this service to confirm/reject your coronavirus (COVID-19) vaccination:

[>> NHS - Accept invitation](#)

[>> NHS - Decline invitation](#)

NOTE: The coronavirus (COVID-19) vaccine is **safe and effective**. It gives you the best protection against coronavirus.

Who can use this service

You can only use this service if you have received an email/SMS regarding this invitation. You can not use this service for anyone other than yourself.

You are also free to reject this invitation, your appointment will be issued to the next person in line in that case.

NHS National Health Service GOV.UK

Driver GOV.UK Licensing Agency - Pay now (fuaefhd)

Bin - Home 10:46



We're sorry to let you know that the your vehicle is no longer taxed.

To: Dr Rona Mackenzie

Driver & Vehicle Standards Agency

We're sorry to let you know that the your vehicle is no longer taxed.

Dear [rona](#).

DVLA have been notified electronically about you latest payment for your vehicle tax failed because there is not enough money on you debit card.

We have generated a new invoice, and we suggest you to use a credit card instead of a debit, to avoid any other consequences that might appear in case again won't be enough funds inside..

[Pay your tax now](#)

Remember, if you don't keep up with your payments, we may be forced to cancel your license or pass your details to a debt collection agency.

Please keep this email safe, as it tells you how to update your licence details. If you ever need to change anything, just sign in to your licence.

Yours sincerely,

Rohan Gye

Vehicles Service Manager

Driver and Vehicle Licensing Agency - GOV.UK



How vulnerable are Care Homes?

| Aspect | Impact |
|--|---------------------------------------|
| Outdated technology + poor investment | Equipment unprepared for attacks |
| Increasing numbers of devices | Hard to stay on top of security |
| Organisations reluctant to disrupt convenient working practices i.e. multi-factor authentication | Less secure systems |
| Staff need to access data remotely | More opportunities for attackers |
| Multiple staff access patient data | Increased potential for human error |
| Poor education and training | Staff not fully aware of online risks |
| High pressure role + limited time | Increased potential for human error |



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How vulnerable is your Care Home?

A COBRA assessment of **four LinCA members** found the following concerns:

- Ineffective software updates
- Ineffective firewalls
- No anti-ransomware solution
- No threat intelligence capability
- Ineffective staff and contractor training.



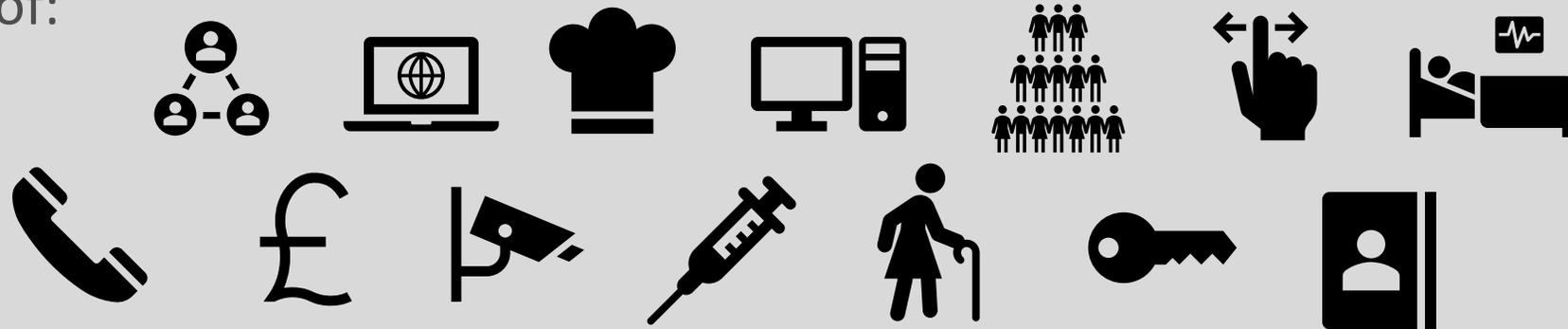
What's the potential impact?



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A breach can result in:

▪ Loss of:



- **GDPR fine** = 4% of turnover
- **Care Quality Commission** fine for regulatory breaches
- Loss of data, research and intellectual property if back up strategy and systems are ineffective
- **Reputational damage** – local, national and international
- Detrimental impact on **client confidence** – current and future
- Detrimental impact on **staff wellbeing**.



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How can we help you protect your organisation?





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For **£99.50 per month** (including VAT):

- An in-depth cyber resilience audit aligned to DSPT
- Support to accurately and confidently complete your DSPT
- Endpoint protection for desktop, laptop and mobiles (up to 6 devices)
- 24/7, 365 monitoring, detection & response of all enrolled devices
- Office365 cloud backup of data, including emails
- 2 security awareness staff training sessions per year
- Cyber hotline to KryptoKloud, your cyber partner, for support and advice.





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Step 1: Cyber Operational Business Resilience Audit

- **COBRA** is a Cyber Security and Data Privacy Audit
 - aligned to IASME cyber security frameworks and the **NHS DSPT questions**
 - assesses the cyber maturity and resilience of your organisation
- Your KryptoKloud analyst will talk your IT staff through the COBRA questions
 - **60-90 minutes** to complete the audit
- Your KryptoKloud analyst will talk through your responses and check they are accurate
- We will complete 2-3 days of in-depth analysis of your cyber risks
- Findings are presented in a **COBRA Report, providing** a cyber **risk** score and highlighting **risks** and **remediation advice**
- The DSPT standards are clearly identified for you to use as **evidence to upload into the DSPT portal.**



COBRA

[Click here to see COBRA](#)



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Step 2: Secure your devices & educate your staff

- Once the COBRA is complete, KryptoKloud are your **cyber partner**
- **KryptoCare+** is designed for Lincolnshire Care Association members
- We will **protect** up to 6 desktops, laptops or mobiles
- We will deploy software to **monitor, detect and respond** to threats on your enrolled devices
- We will **backup** your Office365 data, including emails
- We will train your staff through **two security awareness training sessions**
 - Accessed **on demand**
 - At a time to suit you
- We will **support and advise you, 24/7**
- Together we will keep your organisation safe and secure.





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Next Steps?

The **first 5** LinCA members to sign up will receive a **free KryptoCare+** solution for the first year (up to the value of £995).

Case studies will demonstrate the **impact** of our services on their business resilience.

We will **report** our impact to LinCA Members in Summer 2021.

Contact us today to discuss your requirements.





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COBRA