

Banbury Businesses and the Cyber Resilience Centre Network Vanessa Eyles

Detective Superintendent – West Midlands Cyber Resilience Centre





Cyber attackers don't target small businesses as they have no spare money – Wrong Cyber attackers only want money - Wrong 32% SME's have suffered cyber attacks in the last year Average costs in an attack to businesses is ~ £15,300 Most businesses attacked lose data, customer/client details forever

The Threat

Digital Economy worth £400m per day

80% of cyber attacks start in supply chain

£130 Billion lost to consumers annually

Government have graded cyber attacks as a Tier one national security threat

Law enforcement is working in partnership



Naked photos from thousands of plastic surgery patients including are published on the dark web after Latvian clinic was hacked

Hacking group known as Tsar Team broke into servers of Grozio Chirurgija clinic They stole more than 25,000 private photos and personal information of clients The clinic's patients include people from Germany, Denmark, Norway and the UK Victims were told to pay as much as €2,000 to guarantee material is kept private Do you know a victim of this hacking? Email gareth.davies@mailonline.co.uk





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hill Ober

500m web users hit by

biggest hack in history



THE 'BER RESILIENCE ENTRE

FOR THE WEST MIDLANDS



dozens of celebrities and 1,500 Britons

Businesses say they don't really work on line.....

Do you have a <u>desk top</u> computer? Do you have any business records/files on it? Do you use a laptop for your business – maybe to send out bills or emails? Do you use a mobile phone for your business? Are there apps on it such as billing, account managing? How do you do your banking? On line? How do you do your tax return? On line? Where do you store your data on performance such as daily or weekly targets? Where to you have <u>contact lists</u>, including bank details for customers/clients/sub-contractors? Do you store images or photo's, designs or specifications? If so, where? Do you have a website for your business? Or Facebook, Instagram, Twitter, TikTok, LinkedIn?



EST MIDLANDS

It's ok... I've got business insurance...







THE CYBER RESILIENCE CENTRE

It's ok... I've got cyber insurance...

Wana Decrypt0r 2.0



Payment will be raised on 1/4/1970 00:00:00

Time Left 20:00:00:00

Your files will be lost on 1/8/1970 00:00:00

Time Left 2011 2021 2021 202

Ooops, your files have been encrypted!

not so enough time.

You can decrypt some of your files for free. Try now by clicking < But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price w Also, if you don't pay in 7 days, you won't be able to recover your We will have free events for users who are so poor that they could

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click Please check the current price of Bitcoin and buy some bitcoins. For click <How to buy bitcoins>.

And send the correct amount to the address specified in this windo After your payment, click <Check Payment>. Best time to check: 9 GMT from Monday to Friday.

Once the payment is checked, you can start decrypting your files in

Contact

If you need our assistance, send a message by clicking <Contact Us

We strongly recommend you to not remove this software, and disa for a while, until you pay and the payment gets processed. If your updated and removes this software automatically, it will not be ab files even if you pay!

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THE CYBER RESILIENCE CENTRE

The impact of a WannaCry Attack



12 May 2017

53% UK NHS trusts were affected

1200 pieces of diagnostic equipment were infected

19000 cancelled appointments including

£92 million cost



THE CYBER RESILIENCE CENTRE FOR THE WEST MIDLANDS

Business Threat

32% of businesses and 24% of charities had suffered a cyber attack in the last 12 months. Average cost about **£15,300**

Of those businesses and charities, a quarter experience them at least once a week. The most common by far being phishing attacks **~80%**, followed by impersonation.

Covid pushed more business work on line. How many people's home devices have safety measures or software updating on a regular basis?

If you pay ransomware you are more likely to suffer a cyber attack again in the future.







The scale of the threat?

Who commits Cyber attacks?

- Bitter ex employees
- Teenagers with nothing better to do
- Disenfranchised "keyboard warriors"
- Fraudsters
- International fraudsters
- Anarchists
- State actors Ukraine



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Questions to ask a business: How would you rate your business out of 10?

- 1. Who do you talk with about cyber security? Your IT provider only
- 2. What business continuity plans do you have? Fire, flooding and theft plans.
- 3. What policies do you have in place to protect your business? Remote working and BYOD
- 4. What safety mechanisms do you use to protect your business? (ie password changes, encryption, MFA, etc..)
- 5. What due diligence do you carry out on your website, internet presence, Facebook, Twitter, etc..?
- 6. What understanding do your staff have of cyber safety?



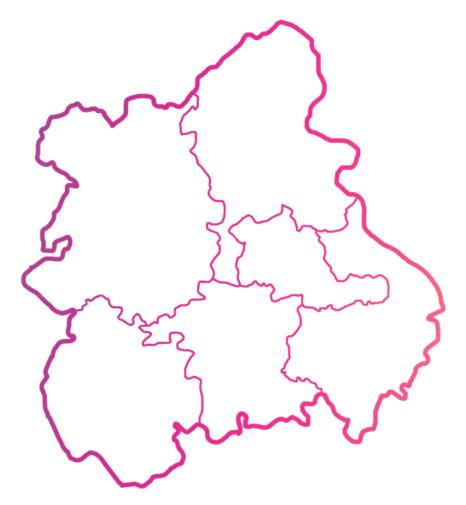


What are the Cyber Resilience Centres?

The <u>Regional Centres - National CRC Group</u> provide cyber security guidance and cyber resilience services to businesses of all sizes across the every region in England and Wales.

We are <u>Police</u> led, <u>home office</u> funded and <u>not</u> for profit.

Each CRC provides a "Go to" service of cyber security advice, guidance, support, partnership and affordable cyber security services.





Your local CRC's

South East Cyber Resilience Centre Free Information Pack | The Cyber Resilience Centre for the South East (secrc.police.uk)

East Midlands Cyber Resilience Centre Membership | The Cyber Resilience Centre for the East Midlands (emcrc.co.uk)

West Midlands Cyber Resilience Centre Membership | Cyber Resilience Centre for the West Midlands (wmcrc.co.uk)







Call to action – Free Core Membership

NCSC Guidance

How organisations can protect themselves in cyberspace, including the 10 steps to cyber security from the Government NCSC division.

NCSC Board Toolkit

Resources designed to encourage essential cyber security discussions between the Board and their technical experts.

Free Business Consultation

<u>30 minute consultation with the</u> <u>WMCRC Head of Cyber & Innovation</u> <u>and Services & Membership Advisor</u> <u>to review your current cyber security</u> <u>operations.</u> Regular digestible updates relevant to West Midlands businesses and charities about cyber resilience.

NCSC Exercise in a Box

A free online tool from the NCSC which helps businesses test and practise their response to a cyberattack.

E-news



Getting the basics right – Ten Easy Steps

1 – Back up your data – which ever way is best for your organisation - essential for attacks and accidents such as fire, flooding or theft of devices. Good Data housekeeping







2 – Protect from Malware - turn on and update anti virus software



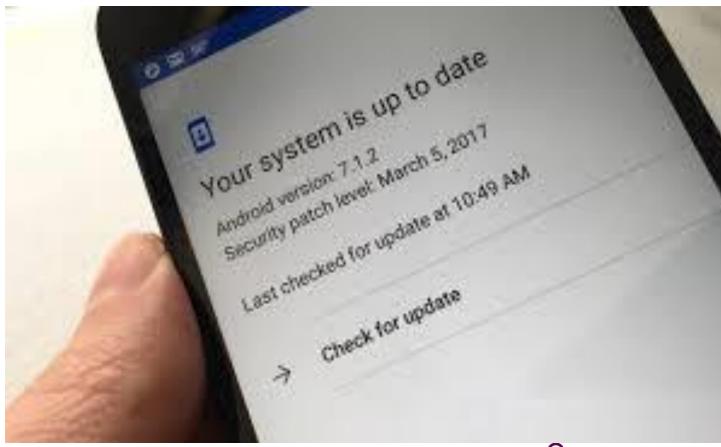
Malwarebytes:



THE ENCE

3 – Keep your IT up to date – old devices will not have updates and become more vulnerable as time goes by

Working on updates 20% complete Don't turn off your computer

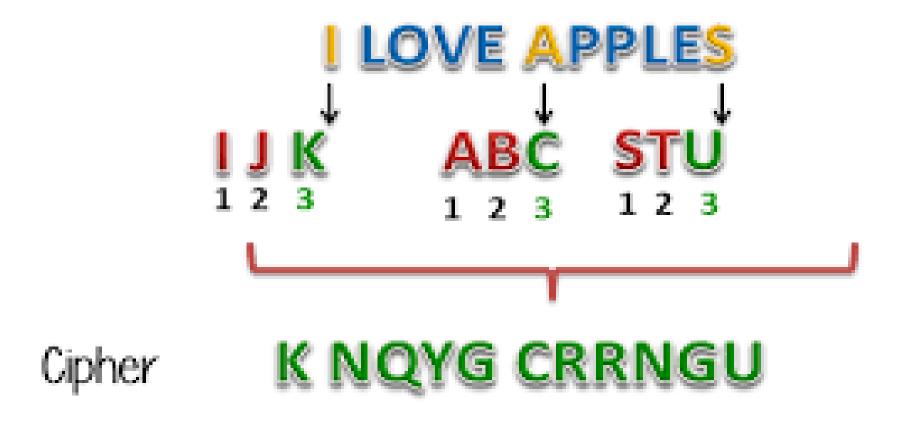


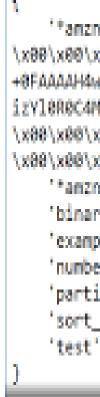


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4 – Switch on encryption – this will keep what you are doing/sending secret from others

Key: Replace every letter with 3rd successive letter





\x88\x88\x88\x88\xe8AQEBAHhA84wnXjEJdBb8BylRUFcZZK2j7xwh6UyLoL28nQ

+8FAAAAH4wfAYJKoZIhvcNAQcGoG8wbQIBADBoBgkqhkiG9w88BwEwHgYJYIZIAMUDBAEuM8EEDPeFBydm izYleReC4M7wAK6E1/N/bgTmHI=\x00\x00\x00\x17amzn-ddb-map-signingAlg\x00\x00\x00\nHm

'*amzn-ddb-map-sig*': Binary(b*\xd3\xc6\xc7\n\xb7#\x13\xd1Y\xea\xe4.|^\xbd\xdf% 'binary': Binary(b'!"\xc5\x92\xd7\x13\x1d\xe88s\x9b\x7f\xa8\x8e\x9c\xcf\x10\x14 'example': Binary(b"'b\x933\x9a+s\xf1\xd6a\xc5\xd5\x1aZ\xed\xd6\xce\xe9X\xf0T\; 'numbers': Binary(b'\xd5\xa8\\d\xcc\x85\xf5\x1e\xb9-f!\xb9\xb8\x8a\x1aT\xbaq\x 'partition_attribute': 'value1', 'sort_attribute': 55,

'test': 'test-value'



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5 – Control/reduce the use of USB sticks/removeable media – especially free USB sticks!







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6 – Keep your devices safe, ensure they can be tracked and able to be locked and wiped if needed









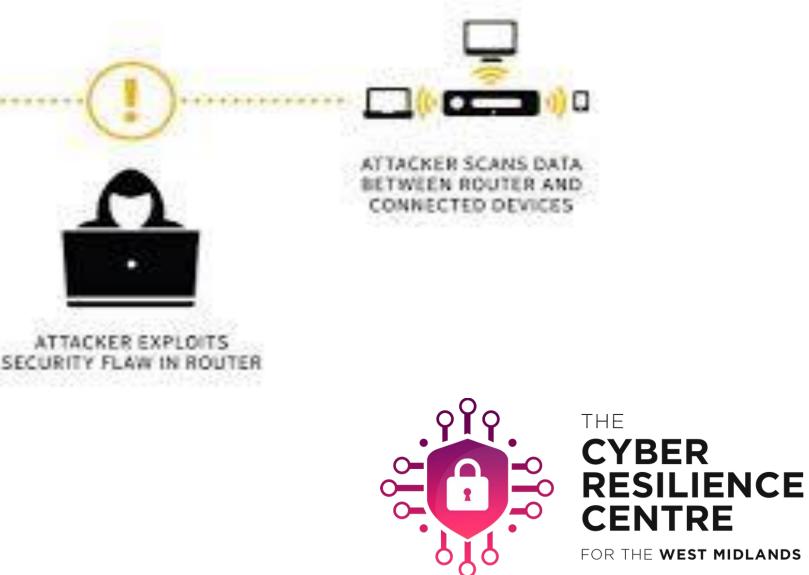
THE CYBER RESILIENCE CENTRE

7 – Public Wi-Fi – something free that's not good for you. Hackers intercept + see what you're doing



YOU CONNECT TO UBLIC WEE

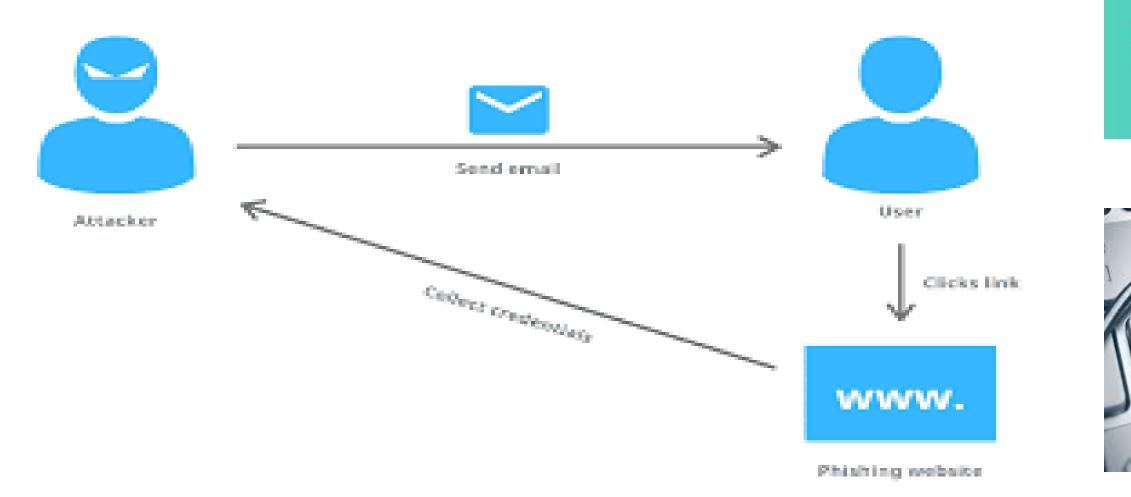
MAN-IN-THE-MIDDLE ATTACK



8 – Strong and regular password usage is free and effective security – Three random words and **Password Managers**



9 – Phishing attacks – urgent requests for money, offers too good to be true, click here, delivery. Ensure all staff are effectively trained and on the look out to help your business against this growing method of cyber attacks on businesses.



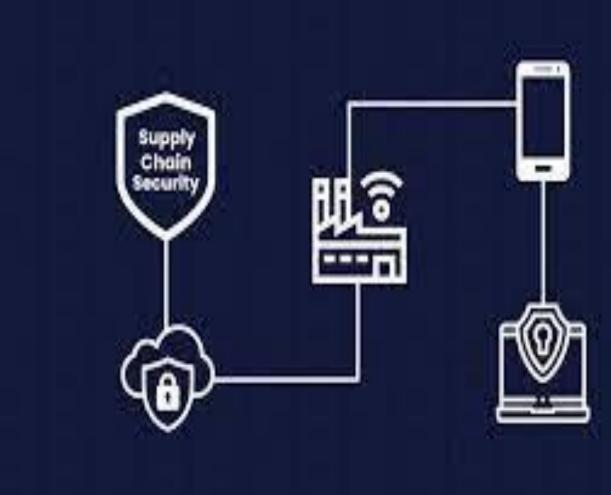






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10 – Supply chains can be attacked by hackers to get to bigger companies. Have policies in place to stop bad practice





Use our affordable, relevant services

Individual Vulnerability Assessment

Find out how much damage an attacker could do if they did manage to breach your network or launch an attack from the inside.

Individual Internet Discovery

Find out what exists online about you and your team, and how it could be used in an attack.

Remote Vulnerability

Assessment

We can scan your network remotely, like an attacker might, and see if there are obvious weaknesses present which they might choose to exploit.

Web Application Vulnerability Assessment

How secure is your website? Does it contain vulnerabilities just waiting to be exploited? Our assessments can help identify these weaknesses so you can fix them.

Corporate Internet Discovery

Find out what information an attacker can gather about your business and how it can be used in a cyber-attack.

Cyber Business Continuity Exercise

Practical scenario-based exercises tailored for your organisation to test your business continuity plan and your recovery plan in the event of an attack.

Our Cyber Services (Continued)

Security Awareness Training

Ensure your staff are aware of the risks associated with cyber and how to protect themselves and your business. The training is focused on those with little or no cyber security or technical knowledge.

This one is particularly popular and effective. Your people are often your biggest vulnerability.

Security Policy Review

Find out how robust your current cyber security policies are and what you can do to improve them.

Trusted Partner Resource

Trusted Partner resource will be
used to fill temporary resource
gaps, support extended resource
requirements to support projects
or during incident response.



I will leave you with this thought...

- Live Cyber Threat Map | Check Point \bullet
- With all of those attacks going on, it only takes one successful attack on your clients organisation for ۲ the devastation to begin
- Now you know where there is free help spread the word ۲



Join the WMCRC today. Be "in the know". Help your clients to also "be in the know" - chat about cyber concerns. Book a slot.

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The Cyber Resilience Centre for West Midlands





