

A presentation slide with a light grey background. At the top center, the text "Cyber Security" is written in a blue, sans-serif font. Below this text is a large white speech bubble shape. Inside the bottom of the white shape is a smaller, dark blue speech bubble shape containing the text "Sean Price Director" in white. At the bottom left is the RDS logo with the tagline "TAILORED IT SOLUTIONS". At the bottom right, there are two columns of text listing office addresses: "Century House St James Court Friar Gate Derby DE1 1BT" and "The Evron Centre John Street Filey North Yorkshire YO14 9DW".

Cyber Security

Sean Price
Director

RDS
TAILORED IT SOLUTIONS

Century House
St James Court
Friar Gate
Derby
DE1 1BT

The Evron Centre
John Street
Filey
North Yorkshire
YO14 9DW

A presentation slide for RDS GLOBAL. On the left, there is a bulleted list of facts. On the right, there is a circular diagram with the RDS logo in the center. The diagram is divided into several segments with icons and labels: "Integrity and Trust", "Accountability", "Quality", "Communications and Relationships", "Customer Engagement", "Solution Oriented", and "Local". The outer ring of the diagram contains the text "Delivering a professionally executed customer experience" at the top and "Combining tailored product and service solutions to meet individual and specific needs" at the bottom. The RDS logo is in the center of the diagram.

RDS
TAILORED IT SOLUTIONS

RDS GLOBAL

- Established in 1997
- IT Support to over 200 sites
- Provide remote support for 4000 end users
- ISO27001 certified, only IASME Gold standard assessor in the East Midlands

Delivering a professionally executed customer experience

Integrity and Trust

Accountability

Quality

Communications and Relationships

Customer Engagement

Solution Oriented


Local

RDS


Combining tailored product and service solutions to meet individual and specific needs

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 **INTRODUCTION**

1903
•Magician and inventor Nevil Maskelyne disrupts John Ambrose Fleming's public demonstration of Guglielmo Marconi's purportedly secure wireless telegraphy technology, sending insulting Morse code messages through the auditorium's projector.




1995
The film hackers is released


"Hackers" is, I have no doubt, deeply dubious in the computer science department. It shares the common hacksploitation conceit that a kid with a computer and a modem can alter the course of human events with a few taps on his keyboard.








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 **INTRODUCTION**



Data Protection Act 1998



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 **GDPR**

GDPR

GDPR is the new name for the updated Data Protection laws, fully implemented May 2018


GDPR will fundamentally change the way that companies collect, store, use and delete data

GDPR will bring new requirements and obligations to business process




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 **CYBER ESSENTIALS**

Cyber Essentials was launched in 2014 and forms the governments national strategy in combatting cyber orientated crime




Cyber Essentials has two forms, basic and plus

Cyber Essentials is mandatory for any company competing for government/ council tenders

*RDS Global is the only IASME Gold Standard accredited assessor in the East Midlands

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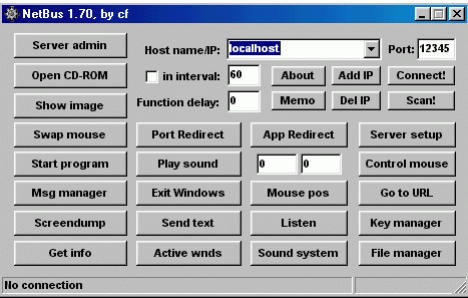
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COMMON THREAT'S


Trojans

Trojans are tools designed to provide remote access to a user that will grant him administration access and controls to the infected computer. It allows the user complete control over the host computers functions




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PHISHING




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PHISHING

Social engineering refers to an attack that relies on human interaction to trick people into breaking normal security protocol.



Speare Phishing has become common place in business with various levels of sophistication

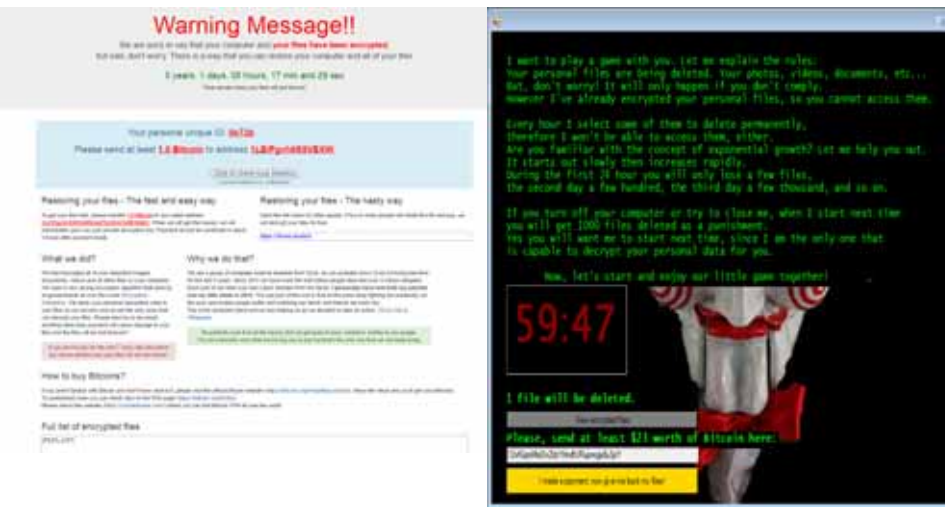
Speare Phishing is a direct attack on a business, with an imposter posing as a company employee to defraud a business or it's customers of their funds

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RANSOMWARE



Warning Message!!
We are sorry to hear that your computer and your files have been encrypted.
Our new software. There is only one way to recover your computer and all of your files.
It costs 1.00k, 10 hours, 17 min and 28 sec.
[How to recover your files](#)

Your personal unique ID: **0x72e**
Please send at least **1.0 Bitcoin** to address: **1L8Pgn482V4XKH**
[Send 0.00000000 Bitcoin](#)

Recovering your files - The fast and easy way
Pay our ransom, download our software, and your files will be decrypted and restored to their original state. This is the only way to recover your files and your computer. We guarantee that we will decrypt your files and restore your computer to its original state. We will not delete your files or your computer. We will not delete your files or your computer. We will not delete your files or your computer.

Recovering your files - The hard way
You can try to recover your files by yourself. But it is very difficult and it will take a long time. We can help you to recover your files and your computer. We will not delete your files or your computer. We will not delete your files or your computer. We will not delete your files or your computer.

What we do!
We are sorry to hear that your computer and your files have been encrypted. Our new software. There is only one way to recover your computer and all of your files. It costs 1.00k, 10 hours, 17 min and 28 sec. [How to recover your files](#)

Why we do that!
We are sorry to hear that your computer and your files have been encrypted. Our new software. There is only one way to recover your computer and all of your files. It costs 1.00k, 10 hours, 17 min and 28 sec. [How to recover your files](#)

How to buy Bitcoins?
You can buy Bitcoins on the internet. There are many websites that sell Bitcoins. We recommend you to buy Bitcoins from a reputable website. We will not delete your files or your computer. We will not delete your files or your computer. We will not delete your files or your computer.

Full list of encrypted files:
[List of files]

59:47

I want to play a game with you. Let me explain the rules: Your personal files are being deleted. Your photos, videos, documents, etc... But, don't worry! It will only happen if you don't comply. However I've already encrypted your personal files, so you cannot access them. Every hour I select some of them to delete permanently. Therefore I won't be able to access them, either. Are you familiar with the concept of exponential growth? Let me help you out. It starts out slowly then increases rapidly. During the first 24 hour you will only lose a few files, the second day a few hundred, the third day a few thousand, and so on. If you turn off your computer or try to close me, when I start next time you will get 1000 files deleted as a punishment. Yes you will want me to start next time, since I am the only one that is capable to decrypt your personal data for you.

Now, let's start and enjoy our little game together!


1 file will be deleted.

Please, send at least **0.1** worth of Bitcoins here:
[1L8Pgn482V4XKH](#)

[How to recover your files](#)

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RANSOMWARE


Ransomware enters the host PC, usually through a malicious email attachment, maps the host network before encrypting all the user files, locking the files from being accessed and demands a payment in order to send the encryption key

Ransomware asks for payment in the form of a cryptocurrency, most commonly bitcoin

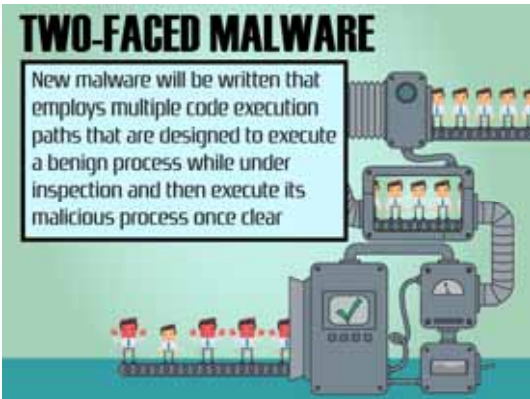
The rise of RAAS has seen incredible growth and frequency of this type of attack

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FUTURE OF MALWARE

Multi-faced Malware




Multi-Faced malware refers to a piece of software which has the ability to morph into multiple forms

Once it has screened the host network for vulnerabilities, it begins its transformation process into it's final form

Source: Fortinet

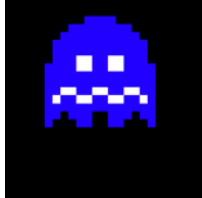
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 **FUTURE OF MALWARE**

GhostWare

Ghostware is designed to hide it's true presence during an attack, obscure the attackers details and unwrite its self, deleting its trace upon the conclusion of it's objection



Ghostware will grow through innovation within criminality and the further growth area of IOT devices

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 **FUTURE OF MALWARE**

IoT




The internet of things poses the biggest risk to Cyber Security, both on an individual and corporate level, that technology has ever seen.

“Not only is more data being shared through the IoT, among many more participants, but more sensitive data is being shared. As a result, the risks are exponentially greater.”- Deloitte

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FUTURE OF MALWARE

Steganography

The practice of concealing messages or information within other non-secret text or data.




Steganography is a technique used to hide otherwise benign code into a file or application

A trigger is applied that acts as the catalyst to launch the malware

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FUTURE OF MALWARE

Reasons to guard against information vulnerabilities

- Damage to brand
- Damage to customer perception (service)
- Risk of losing important data
- Risk of theft
- Legal Fines
- Regulatory Fines
- PCI Fines
- Failure to meet business objectives
- Failure to meet contractual obligations
- Insurance Culpability
- Insurance Premiums

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**CYBER AUDIT**
RDS Cyber Audit


RDS Global adopt an audit process, based off IASME Cyber Essentials, GDPR and ISO27001 information security controls

Audit process will flag vulnerabilities which exist within the physical configuration, policy and process and staffing education

As assessors with the accreditation body, RDS will implement the controls that will gain Cyber Essential certification and will advise on the steps to ensuring GDPR

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**CYBER AUDIT**
A comprehensive audit of your information processes

People - Who has access to key business information

Premises - How is offline information stored


Technology- What technology do you employ at your business

Info/ Data - Types of information that are processed

Supplier - Which third party suppliers do you work with. How is data processed between the companies

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CYBER SERVICES

- Cyber Audit
- Key Findings
- Recommendations
- Policy templates
- Cyber essential basic certification following implementation of new controls

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ADDITIONAL SERVICES

- Cyber Essentials Basic and Plus
- Best of breed hardware and software recommendations
- GDPR Consultancy
- Legal HR documentation
- Education Training materials/ Video Content
- Penetration Testing

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Thank You
Any questions?

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