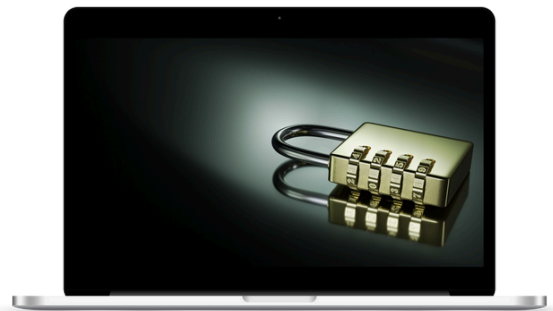


Ransomware is a Devastating Threat to Your Business - Understand the Dangers and How to Protect Your Business

In 2023, ransomware attacks remained a major danger to UK businesses. For example, the UK's National Cyber Security Centre (NCSC) found that ransomware attacks cost companies in the UK an estimated **£1.3 billion in the first half of 2023 alone**. This type of cyber attack can cause significant disruptions to any organisation, including downtime, loss of crucial data, and financial strains from ransom payments and recovery attempts.

What is ransomware?

Ransomware is a type of malicious software designed to block access to a computer system or encrypt its data until a ransom is paid. Typically delivered through phishing emails, malicious downloads, or exploit kits, ransomware can disable an organisation by locking critical files and demanding payment for it to be released.



The Growing Threat of Ransomware



Ransomware attacks have become increasingly sophisticated and frequent. In 2023, the NCSC reported a **40% rise in ransomware attacks compared to the previous year in the UK**. The shift towards remote working, increased digitalisation, and the rising value of data have made ransomware a preferred tool for cyber criminals. Attackers now use more advanced tactics, like encrypting data and threatening to release it if the ransom isn't paid. They also use techniques like tricking people into giving access to sensitive information.

Why is traditional antivirus no longer enough?

Traditional antivirus solutions rely on signature-based detection, which means they identify malware by comparing files to a database of already known threats. This method is increasingly ineffective against modern ransomware because:

Zero Day Exploits: New vulnerabilities are exploited before antivirus providers can update their databases with existing threats.

Sophisticated Delivery Mechanisms: Advanced techniques like social engineering, fileless attacks, and hiding malicious code in complex ways can bypass traditional antivirus defences.

Polymorphic Malware: Polymorphic malware is ransomware that can change its code regularly to avoid being detected by standard security software.

Impact on Businesses

Before an Attack

- **Vulnerability:** Businesses often have unpatched systems, weak passwords, and lack of employee training, make them susceptible to attacks.
- **Unpreparedness:** Many organisations lack comprehensive incident response plans in the event of a cyber attack and rely on outdated security measures.

During an Attack

- **Operational Disruption:** When this ransomware strikes, it makes critical systems and data inaccessible, halting business operations.
- **Communication breakdown:** Internal and external communication channels may be compromised or disabled.
- **Financial Strain:** Immediate costs include ransom payments, IT support costs, and potential loss of revenue from operational disruption.

Aftermath of an Attack

- **Financial Loss:** Paying fines for data breaches can be very costly. Additionally, you may need a third-party audit to ensure your business is safe for continued operations. These audits can be expensive and necessary to meet vendor's cyber safety requirements.
- **Reputational Damage:** Public knowledge of a ransomware attack can harm customer trust and damage the company's reputation.
- **Data Loss:** Even if the ransom is paid, there is no guarantee that your data will be fully restored.
- **Legal Consequences:** Failure to protect sensitive data can result in legal actions and regulatory penalties.
- **Long Term Disruption:** Businesses may face delayed recovery times and ongoing security vulnerabilities.