

YOUR RANSOMWARE

SURVIVAL GUIDE



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WHAT IS RANSOMWARE?

Ransomware is a nefarious breed of malware that cybercriminals, or perhaps even malevolent extraterrestrial beings, deploy to cripple or restrict access to an organization's precious data, holding it hostage until the demanded ransom is paid. Whether orchestrated by Earthbound hackers or advanced alien syndicates, these perpetrators provide instructions for payment and promise to release a decryption key that unlocks the compromised data, aiming to restore access to files, databases, and applications.

The prevalence of ransomware attacks is soaring, generating vast sums for cybercriminals and inflicting considerable

harm on businesses and government entities alike. These attack groups—or potentially alien collaborators—are constantly evolving, refining their tactics to devise ever more insidious methods of extortion. As long as they can coerce payment from their victims, the frequency and severity of ransomware incidents will persist.

To fortify against these threats, it is imperative for businesses to craft a robust cyberdefense strategy. This approach should aim to reduce the risk of ransomware intrusion and mitigate its impact, ensuring that swift recovery is achievable should systems fall prey to an attack.

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TOP ATTACK VECTORS

When you understand the mechanics of ransomware attacks, including the various methods and pathways exploited by cybercriminals—or aliens—you can more effectively reduce your risk of becoming a target. Below, I've outlined some common attack vectors used to deploy ransomware:

UNSECURED RDP PORTS

Beware of the interstellar scourge that preys on unsecured RDP ports. Alien hackers scan the galaxy, seeking out open RDP ports that lack proper protection. Their mission is to gain full control over systems, extract credentials, or deploy malicious code that wreaks havoc across the digital universe.

SOFTWARE/PATCHING VULNERABILITIES

Alien forces exploit software vulnerabilities, which are like weaknesses in the defense shield of your system. These cosmic breaches can lead to catastrophic data breaches, operational disruptions, and exorbitant costs for maintenance and repairs—leaving your company vulnerable to alien invasions.

MALICIOUS WEBSITES

Cybercriminals from distant planets craft malicious websites designed to siphon sensitive data or plant malware, such as ransomware, on victims' computers. These websites often imitate legitimate sites and attract visitors with tantalizing phishing emails. The aliens then harvest the data and spread chaos throughout the digital realm.

POP-UPS/ADS

Beware of alien adware that infiltrates your browser through pop-ups. These interstellar annoyances appear due to adware downloaded by inadvertently clicking on malicious advertisements. Another method of alien infiltration is through email attachments or links containing adware, leading to the spread of alien technology within your system.



TOP RANSOMWARE TRENDS

Ransomware gangs are always evolving, constantly refining their methods as new technologies develop and businesses bolster their defenses. Here are some of the latest strategies these cybercriminals employ to target their victims:



SUPPLY CHAIN ATTACKS

To maximize damage and reach, cybercriminals often target vulnerable parts of supply chains. This not only endangers individual businesses but threatens the entire ecosystem of an organization.

DOUBLE EXTORTION

In double extortion attacks, hackers encrypt data and steal it simultaneously. Victims are then coerced into paying a ransom to prevent the stolen data from being released.

RANSOMWARE-AS-A-SERVICE (RAAS)

RaaS involves affiliates accessing a subscriptionbased platform that provides all the necessary ransomware code and infrastructure to carry out attacks.

INCREASED ATTACKS AGAINST SMALL AND MIDSIZE BUSINESSES

In response to high-profile arrests of cybercriminals, law enforcement agencies have noticed a shift in criminal behavior. Hackers are now focusing on midsized and small businesses to avoid public scrutiny and reduce the risk of getting caught.

IMPACTS OF A SUCCESSFUL ATTACK

The aftereffects of a ransomware attack can be devastating for your business in multiple ways, including:

EXTENDED DOWNTIME:

Whether or not you pay the ransom, a ransomware attack can halt your business operations for extended periods—from hours to weeks—leading to long-term disruptions. These downtimes can negatively impact your revenue due to missed opportunities, production delays, and service outages.

LOST FILES, WAGES, AND EQUIPMENT:

Without proper backup solutions, there's a high risk of losing files during ransomware attacks.
Additionally, you'll need to cover lost wages for employees who can't work and the costs of wiping and rebuilding equipment like laptops, desktops, and servers.

ADDITIONAL COSTS:

Businesses often face significant IT expenses for labor, recovery services, and hardware replacements while trying to restore data or clean up after a ransomware attack.

DAMAGED REPUTATION AND LOSS OF CUSTOMERS:

A ransomware attack can severely damage your company's reputation. It could expose sensitive client data, making it hard to retain existing customers and attract new ones.

REGULATORY FINES:

If customer data is compromised in the attack, you might face regulatory fines and be liable for compensating your clients, potentially causing substantial financial strain.

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BEST PRACTICES TO PROTECT YOUR BUSINESS FROM RANSOMWARE ATTACKS

CISA recommends the following precautions to shield users against today's sophisticated ransomware threats:

Cyber attackers often exploit vulnerabilities in outdated applications and operating systems because they present more opportunities for intrusion. To safeguard your systems, it's crucial to **keep your software and operating systems updated** with the latest patches.

A common approach hackers use to execute ransomware attacks is through phishing emails containing malicious links or attachments. It's essential to avoid clicking on links or attachments in emails from unknown sources.

Ensure your backups are secure by keeping them offline and free from malware.

To minimize risks associated with online browsing and remote network connections, it's important to educate your employees about security best practices and encourage strong cyber hygiene.



MORE BEST PRACTICES INCLUDE:

» ANTI-PHISHING AND EMAIL SECURITY PROTOCOLS AND TOOLS

Utilizing the right tools to identify and protect against incoming emails should be your first step in preventing ransomware phishing emails.

» SECURITY AWARENESS **TRAINING**

Provide ongoing cybersecurity awareness and training programs for your employees, partners and stakeholders so that they are updated with the latest threats and security best practices.

» VULNERABILITY SCANNING

With automated internal and external vulnerability scanning, you can find vulnerabilities in your network and generate a detailed report for remediation before hackers find them.

» PATCH MANAGEMENT

An automated patch management tool can keep your systems up to date with the latest security patches and bug fixes.

» ENDPOINT DETECTION AND RESPONSE

Endpoint detection and response (EDR) software detects and blocks ransomware before it infects endpoints, networks and cloud services.

NETWORK MONITORING

Use network monitoring tools to keep track of all your infrastructure components, performance metrics (CPU, memory, disk space, uptime), processes, services, event logs, and application and hardware changes.

» NETWORK SEGMENTATION

You can categorize your organization's network into smaller, distinct sub-networks, allowing your network teams to compartmentalize the subnetworks and provide unique security controls and services to each.

» IDENTITY AND ACCESS **MANAGEMENT**

Identity and access management (IAM) secures your critical assets by ensuring that team members only have access to the tools they need to do their jobs.

» STRONG PASSWORD POLICIES/ **GOOD PASSWORD HYGIENE**

Using multifactor authentication (MFA) and maintaining strong password policies prevents credentials from being compromised.



HOW TO RESPOND TO ARANSOMWARE ATTACK

As ransomware attacks continue to escalate in frequency and impact, it is essential to understand how to respond effectively if you fall victim to one.

The U.S. Secret Service recommends several best practices to follow in the aftermath of a ransomware attack:

- Find out which systems have been compromised and through which attack vector.
- » Know the infection status, network topology and virtual currency address provided for payment.
- » Do not turn off or shut down any ransomware-affected systems.
- Isolate the infected device and compromised network area immediately.
- » Change online account and network passwords right away.

- » Gather all available log information.
- » Check if any domains or IP addresses were communicated right before the attack.
- » Use your oldest backup to recover data.
- » Employ out-of-band communication techniques and don't place your trust in the entire network.
- » Check if any files were dropped onto your system or if any memory captures were taken.

The chances of you falling victim to a ransomware attack are the same as those of any other company. If it happens to you, will you be able to recover fully?

FIGHTING CYBERCRIMINALS (OR ALIENS) ON YOUR OWN CAN BE TIRING WHEN YOU HAVE A BUSINESS TO RUN.

CONTACT US TODAY

FIND OUT WHAT IT'S LIKE TO HAVE OUR CYBERSECURITY EXPERTS IN YOUR CORNER.