

What can you do?

Although no defense is completely fool proof against these devious criminals, you can take steps to lessen and possibly prevent some attacks.

Your money or your data!



what is Ransomware

Malware that blocks access to the victim's data while threatening to publish, delete, or prohibit access unless a ransom is paid.

Advanced malware uses crypto viral extortion, which encrypts files and makes them nearly impossible to recover without a decryption key. Attackers demand payment via digital currencies like Bitcoin, making it very difficult to catch or prosecute the perpetrators.



Avoiding infection is the best scenario.

- Back up data as often as possible. Backups are essential for restoring the system after an attack. Store backups in a location that is isolated from the network and routinely verify that the data can be restored.
- Train employees to recognize phishing emails and ransomware, as well as best practices in dealing with unknown threats.
- Malware exploits may be preventable if system patches are applied accordingly. Always keep antivirus and other software updated.
- Discover and maintain a live inventory of network devices. This could help to identify rogue devices that have gained network access.
- Develop, maintain, and enforce a comprehensive cyber security policy.
- Create an incident recovery plan. Identify the personnel, processes, and tools needed for managing interruptions or critical events.



Take the necessary critical steps to limit or contain the attack.

- Identify the threat. For example; monitor your workstations and servers for suspicious activity. Several ransomware infections begin by encrypting a large number of files within a small amount of time.
- Identify the systems that have been compromised. Be aware that ransomware attacks may not encrypt all files. Computers may seem to operate normally yet documents are not accessible.
- Isolate compromised systems to prevent further infection.



Immediately remove compromised computers from the network.

- Determine the cost-effectiveness of a fresh rebuild or reinstallation of the compromised computer.
- Determine the complexity of threat removal and/or restoration method required. Some threats may be mitigated with antivirus software.
- Identify and correct malware system changes prior to reconnecting previously infected computers to the network.

Additional Tips:

- Consider calling an external expert. In many cases, a specialist security firm with experience in cyber incident response will be more adept at dealing with data breaches.
- Be aware that ransomware can potentially affect client data and comply with regulatory and legal requirements.
- Additional best practices for protecting networks from ransomware attacks may be found by browsing resources such as <https://www.justice.gov/criminal-ccips/file/872771/download>.