

Ransomware: Preventing hostage data

Cybercriminals take advantage of a vulnerability in your environment to spread malware in your systems to encrypt your vital business data so it's unusable until you pay them to decrypt it. In some cases, they even steal the data and threaten to release it to your competitors or sell it to the highest bidder.

Questions to ask yourself about ransomware

- How do you prevent ransomware attacks?
- How do you know when users bring unauthorized software or hardware into work?
- How often do you have to decide about what to patch and what not to patch?
- How user-proof is your backup protocol?
- How do you store backups? How do you restore it?

Ransomware attacks have cost businesses billions of dollars. In fact, Cybersecurity Ventures predicts it will cost its victims around \$265 billion USD annually by 2031.¹ What makes ransomware attacks so dangerously effective is that they are self-propagating. They detect and leverage vulnerabilities in your network and software to gain escalating access to other network devices and data across your environment until the intruder cripples and holds hostage your entire enterprise. As frightening as the prospects of a ransomware attack can be, the reality is that implementing a few simple best practices is typically all that is needed to keep you safe from such attacks.

Prevention is the best defense

Most ransomware incidents could have been avoided. Ransomware attackers usually exploit well-known vulnerabilities, which if victims take known best-practice steps to correct, the attempts to infiltrate their environments would simply fail. Those best practice steps involve keeping all their systems and software patched with the latest security updates. For example, a month before the devastating WannaCry and NotPetya attacks in 2017, Microsoft had released a patch to repair the vulnerability that each of those attacks exploited. If the victim organizations had simply patched their systems, they would have been impregnable to those attacks.

The big question then becomes, why didn't those organizations patch their systems? The answer is that patching every system and piece of software in a timely manner for any mid-size to large environment can be a massively complex undertaking if the organization doesn't have the right tools. The right tools consist of an auto-discovery solution that can detect and inventory every laptop, desktop, and server connected to your network so you know their vulnerability status. Next, you need a patch management solution that can quickly and automatically update each of those endpoints with the appropriate and most recent security patches. That includes also being able to report back to you the success or failure of those patch efforts, so you can be certain that every endpoint has been successfully patched and protected.

¹ Cybersecurity Ventures, *Cybercrime To Cost The World \$9.5 trillion USD annually in 2024, 2023*

Instant, automatic intrusion mitigation

What do you do if somehow you still become victim to an attack? First, your patch management system needs to continue to automatically scan your environment for potential threats and remediate any that are discovered to further reduce the possibility of an attack. If a new vulnerability emerges, your patch management system should be able to immediately alert you of any devices or apps that are vulnerable and automatically patch them to block the threat or stop it from propagating if it has already infected your system. Of course, having a strong firewall, application controls, and security policies enforced on each of your endpoints will further increase your ability to block such attacks. And you also need centralized management that makes it easy to see the vulnerability and security status of each of your connected endpoints.

Secure continuous backups

Even with the protection of automated patching and hardened security policies, you need additional lines of defense to guarantee you never lose your valuable data. That's why the final best practice includes employing secure, continuous backups of all your endpoints. So, even if, despite all your protection efforts, cybercriminals somehow manage to hold your data hostage, you can easily recover by using your backups. And don't think that if you get caught without a data backup that you'll be able to get your data back by paying the cybercriminals their ransom.

Sometimes the cybercriminals simply don't release it. Other times the malware they use to encrypt the data corrupts the data so it's not recoverable, whether or not a ransom has been paid.

Simplifying ransomware protection

OpenText offers the solutions that make it simple to employ the best practice steps needed to keep your data and environment safe. OpenText™ ZENworks Patch Management automates the process of discovering and monitoring the patch state of all your Windows laptops, desktops, and servers, and makes sure they're always updated with the latest patches. It also makes sure your antivirus and antimalware solutions' definition files stay current to further reduce the risk of infection. It stays on the lookout for exploitable vulnerabilities as they emerge and immediately patches them to prevent infection and network propagation.

To further keep ransomware attacks at bay, OpenText ZENworks Endpoint Security Management gives you fine-grained, policy-based control over all your Windows laptops, desktops, and servers, including advanced firewall protection, application controls, wireless security, port controls, and robust storage device controls. OpenText Connected MX gives you a cloud-based continuous backup and recovery service with policy-driven protection that ensures the data on your laptops and desktops can always be recovered, whether it's from an attack, system failure, or natural disaster.

[Learn more](#) about how OpenText can keep your endpoint data safe from ransomware and other threats.