

RANSOMWARE: THE GROWING CYBERTHREAT TO AN ORGANISATION

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Organisations are increasingly operating remotely and leveraging on internet-connected technologies for their operations. This move towards digitisation has been increased by the pandemic, with organisation hastily adopting remote working models to survive. This in turn has exposed organisations to the rising risks of ransomware.

The frequency of ransomware attacks has increased dramatically over the past year, with 93% more carried out in the first half of 2021 than the same period last year, according to Check Points mid-year security report.

Ransomware is some form of malicious software that prevents or limits users from accessing their data by either encrypting it or locking the screen, until the victim pays a ransom fee to the attacker. In some cases, the data may be exfiltrated. More often, the demand comes with a deadline. If the victim does not pay in time, they stand to lose the data forever or have it exposed.

Organisations may feel compelled to pay the ransom when they have no backups to restore operations or when attackers demand ransom in exchange for not divulging sensitive information.

The recent disruptive incidents, high impact ransomware attacks have elevated the profile of ransomware attacks. In addition to stealing sensitive data from organisations and threatening to release it publicly unless payment is made, attackers are also targeting customers and vendors and business partners the same way. This increases the scope of the attack from a small number of devices to a wider scale targeting hundreds or even thousands of computers. In some incidents, business operations are halted, not because business-critical assets are affected, but because the ransomware affects IT systems that business operations are critically dependent on. This complicates the threat landscape.

The two most common methods that attackers use to gain access are phishing methods, such as email phishing and spam, and remote access tools that allow them to infiltrate the network and find high-value targets to steal data from and start the encryption or data exfiltration.

The availability of ransomware as a service has also made ransomware easier to deploy. In addition to launching attacks, the most sophisticated attackers are increasingly offering to sell their tools as a bundle, providing not just the malware but also the phishing, operation and payment platforms.



