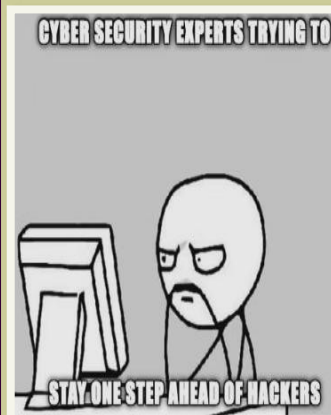


Cybersecurity Digest

Bi-Weekly update by the CISO Section of
Meghalaya Rural Bank



Wiper Attacks

Cyber threats are evolving at a very high pace in today's digital landscape which keeps organizations vigilant and proactive. In such threats, wiper attacks stand out as one insidious form of cybercrime. They specialize in wiping out data and disrupting operations. While its variants tend to bank on financial gains through encrypted hostage data, the purpose of wiper attacks is to destroy valuable information irretrievably. This destructive intent can cause significant damage to the

concerned organizations, leaving them to face huge operational setbacks and recoveries.

The aftermath of wiper attacks is not only pure data loss but at times results in reputational damages, loss of customers' trust, and monetary implications as well. Business impact can be severe since businesses face extended downtimes with loss of intellectual property and legal repercussions. The organizations, as well as the

individuals, in today's global network, must know how wiper attacks are carried out, what the effects would look like, and how to prevent them. That way, stakeholders are educated on how they can better prepare to fight off those risks created by the absolutely devastating cyber attacks



What are Wiper Attacks?

Wiper attacks are malicious cyber incidents involving malware specifically created to wipe data off a system. Data destruction could be as minor as deleting individual files, while major incidents would corrupt entire databases and

completely render any critical information unusable. These attacks commonly target organizations operating in high-stakes industries so that they can create chaos, disrupt operations, and cause long-lasting damage.

Such a blow might bring debilitating effects because losing important information would stop business processes, damage the customer's trust, and provide difficulties of very large recovery dimensions

What makes Wiper Attacks so dangerous?



The danger of wiper attacks lies in their ability to cause instant and permanent harm. Since important data is wiped,

then attackers are likely to fully cripple the operations within an organization, slow down productivity, and cause costly downtime events. This is unlike ransomware, whose possibility might be regaining lost data via some financial

payment, but the wiper attack seems to completely have this chance erased.

This has a lot at stake in terms of integrity in relation to data and also disrupts business continuity since organizations would be unable to oper-

ate efficiently in the wake of such an attack. The psychological damage on employees and stakeholders, in addition to possible financial implications, makes wiper attacks especially menacing in the world of cybersecurity

Notable Wiper Attacks

Shamoon (2012): This was one of the first and most known wiper attacks that focused on the state-owned oil company Saudi Aramco. In this incident, data on thousands of computers were destroyed. The malware spreads across the organization's network rapidly to erase critical data and renders operational systems inoperable. Operations of the company experienced not just disruption but also big recovery efforts, rebuilding the whole IT infrastructure of the company. Such was the importance of Shamoon that it became a moment of consciousness in cybersecurity, and organizations realized that they could also suffer from similar hostile and damaging actions

Dustman (2019): Dustman was focused against Bahrain National Oil Company, overlaying files with random data on infected computers, effectively purging their information of principle that had links with Iranian state-sponsored threat actors. This indicates how nation-states may wield wiper malware as an influence or for economic disruption purposes. The critical sector targeted in the Dustman attack was oil production, and thus, it demonstrated the ability of wiper malware to disrupt critical services and underscored the geopolitical motivation for such cyber operations. In doing so, it vindicated the observation that organizations conducting businesses in critical infrastructure sectors have a reason to be constantly alert and perhaps more proactive concerning their cybersecurity posture in preventing all risks associated with state-sponsored attacks.



Immediate Isolation: stored securely and mentation to fulfill all seriously.

Once the presence of a tested for integrity may the requirements on the **Review and Revise Incident Response Plans:** In organizations,

wiper attack is established, isolate affected systems immediately recovery stage. If no backups exist or those too are impacted, companies may have little option but to look for data recovery services, with no guarantee of success.

This may include taking the systems offline or disabling their network connections to make sure that the spread is not possible

Data Recovery: Data recovery should begin once affected systems have been isolated. This typically occurs by leveraging accessible current backups to recover lost data. Anyone who regularly takes scheduled backups that are

Communication: Keeping the stakeholders, customers, and employees well-informed on the issue of the wiper attack is very important. Taking them into confidence maintains transparency and trust. Letting the stakeholders know the status of the recovery activities and their potential effects on customers or services would be very helpful. Proactive communication is hence positive as it negates reputational damage or any other losses, using credible communication to exhibit stakeholder concern that the organization takes the incident

the process of recovery serves as an avenue to review their incident response plans and processes. This review will discern the things that have worked well in responding to the incident and also determine the areas that are calling for change. By this, the organization will be better situated to counter any future threat after integrating the lessons learned into the incident response strategy.

