



AlOps for Cybersecurity - ZIF™



Zero Incident Framework™ (ZIF™) is a comprehensive AlOps platform that proactively detects and remediates Cybersecurity threats, thereby enabling Security Operations to transcend to a proactive approach.

In business, an end user normally uses the same applications and communicates with the same set of devices everyday, transmitting a standard set of data routinely - called 'Steady State' (SS).

In a typical SS scenario, if anything in an endpoint changes from it's original state (for instance, installation of a new app or new communication between the endpoint and other devices), it is referred to as 'Change of State' (CoS).

Risks Overlooked in CoS

Probable endpoint intrusions indicated by CoS:

- A new application within the endpoint could mean malware that could degrade the performance, corrupt or delete files/data
- A new application communicating with another device, or a new device may mean proliferation of performance degradation, data going out, or deletion of files
- Change in response time could indicate either a network choke or more data transmission
- Change in quantum of data transfer may indicate confidential and important data being sent out

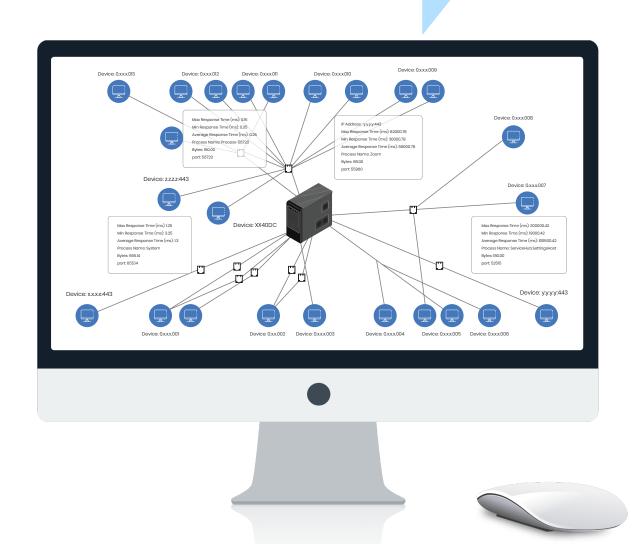
Generally, CoS is caused by one or more of the following:

- Devices running a new application that is not part of SS, within the endpoint
- > Devices running a new application that is not part of SS, and communicating with the others
- > Devices communicating with a new device that is not part of SS
- > Devices taking longer than usual to communicate with another device
- Devices sending or receiving more data than they usually do

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Addressing CoS with the Transaction Journey Mapper (TJM)

- I. Helps highlight endpoint behavior for example, unusual communication with other nodes, unusual applications used, or any deviations from regular patterns
- II. Enables understanding and planning for network bandwidth required between a set of nodes
- III. Highlights any unusual communication, and thereby aids identification of anomalies between Server-to-Server, User-to-Server, etc.
 - Zoom with average latency of 5,600.78 msec
 not a good sign if it is a continuing trend
 - ServiceHub.SettingsHost with an average latency of 109,500.42 msec - not a good sign if it is a continuing trend

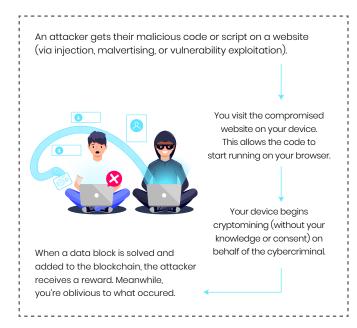


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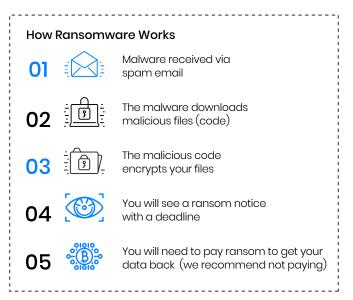
Cryptojacking

Cryptojacking aka malicious cryptomining, is a threat that embeds itself within a computer or mobile device and then uses its resources to mine cryptocurrency.



Ransomware

Always takes advantage of human, system, network, and software vulnerabilities to infect the victim's device, which can be a computer, printer, smartphone, wearable, point-of-sale (POS) terminal, or any other endpoint.



Protecting your Business and IP from Cryptojacking and Ransomware with TJM

- ZIF Universal Connector has out-of-the-box capability to integrate with multiple Open Threat Exchange (OTX) platforms.
- ZIF TJM helps monitor all traffic, detects and identifies anomaly traffic from devices based on Indicators of Compromise (IoC).
- Enables identification of endpoints that have communicated with compromised systems and alerts about the established communication, thereby driving a proactive approach to identify and detect vulnerable systems that could potentially lead to enterprise disasters.



ZIF™ (Zero Incident Framework™), is an award-winning AlOps platform for IT Operations. ZIF™ delivers business outcomes by leveraging unsupervised pattern-based machine learning algorithms. Infrastructure and application telemetry data are aggregated, correlated, and potential failures are predicted. To enable faster resolution and better user experience, ZIF™ deploys intelligent bots for proactive remediation. Developed by GAVS Technologies (www.gavstech.com), ZIF™ is available as an on-premises and SaaS solution.

Contact us now for personalized onboarding service!

To find out more about ZIF^{TM} , please visit **www.zif.ai** or write to **inquiry@zif.ai**