

# Situational Awareness

Situational awareness in IT is about the understanding of IT networks, their entities, and how they behave and change over time. In today's complex, heterogeneous, and distributed IT world, administrators are always short-handed to know what exists in their network, and how these resources are being used. There are also practices of shadow IT where internal users might stand up IT resources without proper hardening and without knowledge of the administrators.



## CHALLENGES

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Attackers may also spin up resources inside the organization; then there is the issue of Bring Your Own Device (BYOD). Client applications may also establish command-and-control channels to exfiltrate information (e.g., antivirus software does this all the time). This may not be the administrators' fault, but it is their problem – the organization's security, performance, and reputation are at stake!

Situational awareness is a crucial element of effective network (security) management. Enterprise administrators need to be armed with the necessary information to anticipate, mitigate, and respond to issues, rather than merely reacting to them. This proactive stance is essential to maintain the IT infrastructure/network's integrity, reliability, and security in an era where downtime or breaches can have significant operational and financial implications.

## SOLUTION

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xVisor, an innovative visibility and monitoring platform developed by Ennetix, is positioned at the forefront of network security and management. xVisor addresses the compelling need for comprehensive situational awareness within complex computer networks of modern IT infrastructures. Its advanced capabilities enable it to illuminate the often-obscure corners of a network, allowing administrators to identify all active entities – including devices, applications, and users – and understand their behaviors in an unprecedented manner.



With xVisor, administrators are no longer in the dark about what is happening on their networks and IT infrastructures. This tool provides an enhanced level of visibility, enabling them to make informed decisions about network operations, maintenance, and security. This proactive approach to network security management helps ensure smooth operation and provides an important layer of security.

At the heart of xVisor's functionality is a sophisticated blend of packet analysis, flow information, and audit data. This solution not only collects data from routers, switches, and computer activities, but also applies innovative machine-learning techniques to transform this data into meaningful insights. The result is a comprehensive, real-time overview of network activities, which allows administrators to identify what entities are active, how they are behaving, and if their behaviors have changed over time.

But xVisor does not stop at merely observing network activity. It extends its capabilities into predictive analytics, intelligently identifying patterns and behaviors that may pose a concern. This makes xVisor more than just a monitoring tool; it becomes an integral part of an IT infrastructure's defense strategy, providing early detection of potential threats and irregularities. This level of predictive capability is paramount in today's fast-paced digital landscape, where cyber threats evolve rapidly and unpredictably.

## CONCLUSION

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xVisor by Ennetix provides a dynamic, intelligent, and comprehensive solution to network-based security visibility and monitoring. It brings together advanced technologies and data sources to provide unparalleled situational awareness. With xVisor, security administrators can ensure that their networks remain robust, secure, and well-managed, providing peace of mind and enabling them to focus on other critical aspects of their roles. The solution redefines what it means to have control over one's network, bringing clarity, foresight, and security into the hands of those responsible for maintaining our digital world.

## CONTACT US

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