

City of Las Vegas



Overview

Industry

- Government

Challenge

- Lean security staff
- No visibility into insider traffic
- Inability of existing security tools to detect threats in real time
- Wanted to adopt a proactive approach to cyber defense and threat mitigation

Results

- Complete overhaul of security platform by switching to Enterprise Immune System
- Darktrace helps take the burden off lean security team
- Gives 100% real-time visualization across IT and OT networks
- Enterprise Immune System increases confidence in security stack capabilities
- Autonomously responds to emerging threats by taking proportionate, remedial action

Business Background

The City of Las Vegas serves as the legislative body that governs Las Vegas, Nevada. While its network covers 3,000 users, the City of Las Vegas oversees private and sensitive data of both its 600,000 residents and over 42 million tourists per year.

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Darktrace’s unique Enterprise Immune System detects zero-day threats and suspicious insider behaviors, without having to define the activity in advance.

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Michael Sherwood, CIO of City of Las Vegas

Challenge

In today’s quickly-evolving threat landscape, it is more critical than ever for city governments to secure their infrastructure against potential attacks, especially in a busy tourist location like Las Vegas. Given that the City of Las Vegas sees millions of tourists per year, the city government was concerned about cyber attacks that could jeopardize sensitive information.

With a limited security team, the City of Las Vegas felt that its existing security stack was insufficient to protect against the wide range of potential cyber attacks. The security team was using a SIEM tool but it had several limitations. The tool only looked at logs and provided no visibility into internal network traffic. Consequently it was ill-equipped to detect never-before-seen threats in both its corporate and SCADA environments.

The City of Las Vegas needed a new solution that would give total visibility into the network, as well as take some of the burden off the lean security team. In particular, fast-moving attacks like ransomware and DDoS were of concern; attacks which would have devastating impacts on the privacy and sensitive data of the city’s administration.

Solution

In an effort to enhance its existing security and prepare for the rapidly-evolving threat landscape, the City of Las Vegas deployed Darktrace's Enterprise Immune System across its enterprise, and Darktrace's Industrial Immune System in the water reclamation facilities. Based on unsupervised machine learning and AI algorithms, Darktrace is a self-learning cyber defense technology that begins to understand a 'pattern of life' for a network as soon as it is installed. With the probabilistic understanding of abnormality, potential cyber attacks are detected as they develop, before they cause damage.

In just the first day of the Proof of Value deployment, the City of Las Vegas immediately discovered the value of the Enterprise Immune System as part of its overall cyber defense platform. The Threat Visualizer gave the company total understanding of insider traffic, including even the smallest deviations from normal operations in its network. In addition, they could be followed in real time on the 3D graphical interface.

A few weeks later, this self-learning and detection technique was put to the test when an intrusion was spotted on the network. Within minutes, Darktrace notified the security team at City of Las Vegas and the threat was immediately investigated. The Enterprise Immune System's ability to detect abnormal behavior as soon as it occurs and to autonomously respond to serious threats, allows the City of Las Vegas to optimize its capacity for threat mitigation.

The understanding of normality for every individual user, device, and network enables the Enterprise Immune System to grow with the company, adapting to changes, and detecting potential threats, even in times of transition.

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Darktrace Antigena is the only automated cyber defense technology on the market that is capable of fighting the most important battles for us.

Michael Sherwood, CIO of City of Las Vegas

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Benefits

Thanks to the Enterprise Immune System's ability to learn a unique sense of 'self' within the organization, City of Las Vegas has unprecedented awareness of its entire network. Darktrace determines the threat level of each anomaly, and filters out false positives by notifying the security team of only the most important threats via the Threat Visualizer. This means that the City of Las Vegas can stay ahead of new forms of threats and focus on legitimate attacks.

“The reality of cyber security today is that border defenses are not enough to keep fast-moving attacks out” commented Michael Sherwood, CIO of City of Las Vegas. “Using machine learning, Darktrace's unique Enterprise Immune System detects zero-day threats and suspicious insider behaviors, without having to define the activity in advance.”

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It's as good as any human engineer as far as learning and adapting.

Michael Sherwood, CIO of City of Las Vegas

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By relying on the 'immune system' technology, the security team has more time to bring weaker areas of the network into sharper focus, spend their time on the most pressing threats, and feel reassured that they are armed with the best tools in case of an attack.

The company also found that by using the Threat Visualizer, it can proactively research issues within the network, like slow connections or network misconfigurations. Having understood the network's 'pattern of life', Darktrace Antigena acts like a digital antibody, automatically taking proportionate, remedial action against the evolving cyber-threats targeting the organizations.

The City of Las Vegas has established itself as a leader in its industry, as the Enterprise Immune System platform allows it to remain proactive in the face of even the most advanced forms of cyber-threat.

Contact Us

North America: +1 415 229 9100

Europe: +44 (0) 1223 394 124

Asia Pacific: +65 6248 4516

info@darktrace.com

darktrace.com