

Cortex Identity Threat Detection and Response Module

Identity threats and malicious insiders are two significant threat vectors organizations face today. Identity threats often involve unauthorized access to user accounts, which can occur due to stolen or weak credentials, phishing attacks, or other social engineering tactics. On the other hand, malicious insiders are individuals within an organization who abuse their authorized access to conduct fraudulent or illegal activities, such as stealing sensitive data or committing financial fraud.

75%

Of insider threat cases involved a former employee¹

85 days

The time to contain an insider threat incident²

216 days

Average time to identify and contain a data breach by malicious insider³

¹ 2022 Unit 42 Incident Response Report, Palo Alto Networks, July 26, 2022.

² 2022 Cost of Insider Threats: Global Report, Ponemon Institute, January 25, 2022.

³ Ibid.

The Growing Challenge

While many organizations rely on traditional security approaches to protect against these threats, more than these solutions may be needed to detect identity threats and malicious insiders. These attacks often occur within an organization's network, making them difficult to detect using perimeter-based security tools.

Moreover, detecting identity-related threats is, essentially, distinguishing between suspicious but benign activity and truly malicious activity, which in most cases requires expertly crafted learning algorithms to identify and respond to potential threats accurately.

Lastly, identity threats and malicious insider attacks are often carried out over an extended period, making them harder to detect using traditional detection engines.

Understanding the Risks

Regular risk evaluations are an essential component of handling cyberwarfare properly. Regular evaluations can help ensure an organization's risk posture is aligned with its business objectives. As an organization evolves, its risk profile may change as new business units, applications, and systems are added. Regular evaluations can help identify changes in risk exposure and enable organizations to adjust their security posture accordingly.

Additionally, risk evaluations over time can assist organizations in keeping up with changes in the threat landscape. The tactics, techniques, and procedures (TTPs) used by malicious actors are constantly evolving, and organizations need to be able to adapt their security posture to stay ahead of emerging threats. Regular risk evaluations can help identify new and emerging threats and enable organizations to implement new security measures to protect against them.

To effectively manage the risks associated with identity threats and malicious insiders, organizations need to have a clear view of the potential risks and make informed decisions about mitigating those risks. This requires a comprehensive understanding of the organization's risk posture and the ability to monitor and analyze user behavior to identify potential threats.

By taking a comprehensive approach to security, organizations can significantly reduce their exposure to identity threats and malicious insiders and better protect their assets and reputation.

Cortex Identity Threat Detection and Response Module

Built from the ground, the new Cortex Identity Threat Detection and Response (ITDR) Module is a cutting-edge offering designed to provide proactive protection against identity-related threat vectors, such as compromised accounts and malicious insiders. By leveraging the power of AI and automation, the module provides advanced detection capabilities that enable organizations to quickly identify, investigate, and ultimately respond to identity threats.

The new module empowers our customers to:

- Make decisions faster with enhanced views of an organization's risk posture.
- Gain forensic-level visibility into the asset to easily uncover hidden threats.
- Automate and customize the continuous analysis of user and host activities.
- Swiftly triage and investigate alerts with precise profile information.

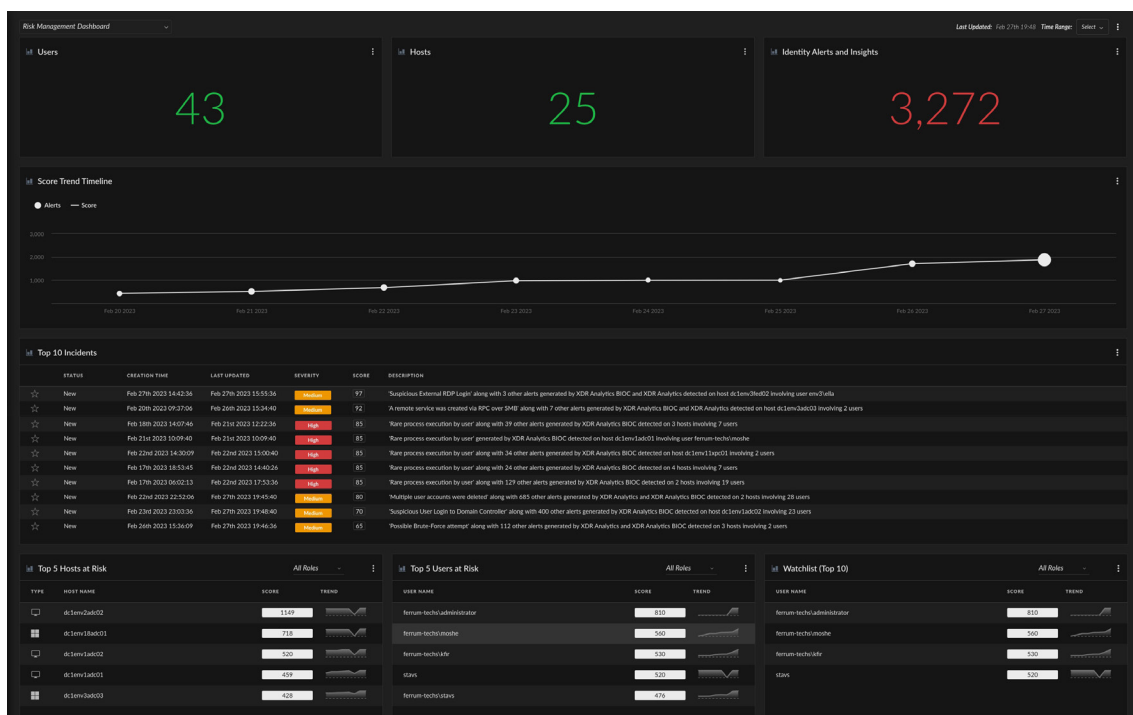


Figure 1: High-level oriented dashboards providing risk statistics and trends

By combining advanced detection capabilities as part of identity analytics with the new ITDR Module that protects identity threats later on along the attack lifecycle, Cortex solutions deliver superior protection against identity-related threats all across the attack lifecycle. This integrated approach ensures that potential threats are detected and mitigated as early as possible, reducing the risk of data breaches and other security incidents.

Proactive Coverage for Stealthy Identity Threats

The ITDR Module in XSIAM and XDR delivers a machine-powered, human-enabled identity and insider threat detection capability to solve the most complex security use cases.

Combine the detection capabilities of ITDR, insider threat with analytical and risk-based detections, and UEBA.

- Reduces a disparate technology stack and lower cost.
- Replaces existing UEBA capabilities.
- Replaces some ITDR vendor capabilities.

Eliminate the need for internal advanced detection engineering to support complex analytic and risk-based detection.

- Takes advantage of Unit 42 and Cortex research driving analytic detections.
- No longer requires long-term maintenance by folks on staff.
- Offload complicated and prolong security research activities and let your internal teams focus on what really matters.

Risk-based profiles help focus investigations on the higher priority incidents.

- Delivers valuable insights via peer grouping and shows users' and hosts' historical trends and patterns.
- Automated insights gained from designated classification analytics based on the applied data sources.
- Replaces risk profiling and peer grouping found in adjacent solutions today.

Faster detection and response for historically challenging security outcomes.

- Delivers with out-of-the-box detection analytics designed to uncover the stealthiest threat vectors, such as compromised accounts and insider threats.
- Automatically applies learnings from your environment to pinpoint suspicious events that deviate from baselines.

Continuous monitoring and safety net for authentication and identity solution failures.

- Support for ZTNA architectures to extend capabilities and detect violations of trust.

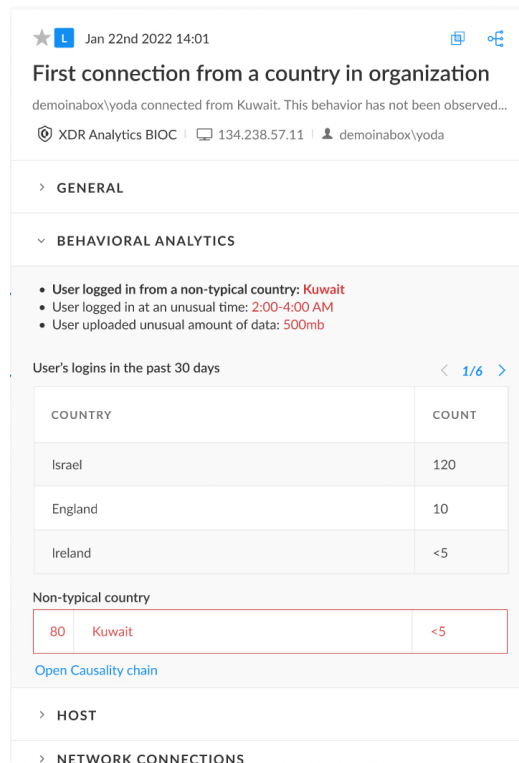


Figure 2: Profile exposure of the main features triggered by the detector

With the launch of [Cortex XSIAM 1.4](#) and [XDR 3.6](#), we continue to advance our mission to help customers protect their organization and make it easier for them to do this. The new advanced ITDR Module from Cortex XSIAM and XDR provides comprehensive coverage for stealthy identity threat vectors, including compromised accounts and insider threats, allowing you to protect your organization without slowing down the business.

How to Get the ITDR Module

Palo Alto Networks has two offerings to address identity threat use cases in Cortex XSIAM and Cortex XDR. One is with Identity Analytics, which is already part of XSIAM and XDR. The other is the Identity Threat Detection and Response Module which is offered as a paid module for XSIAM and XDR. Each module addresses the following use cases, plus more:

Table 1: Use Cases for the Identity Threat Detection and Response Module

	Identity Analytics Initial Access	Identity Threat Detection and Response Module Paid Access
Suspicious logins to SSO, AD, and VPNs (suspicious hours, geolocation, OS, user, and more)	✓	✓
MFA spamming	✓	✓
Brute force, password spray, and excessive logins	✓	✓
Irregular resource access	✓	✓
Anomalous insider activity	–	✓
Abnormal configuration manipulation	–	✓
Suspicious files	–	✓
Modification of permissions	–	✓
Exfiltration to physical devices	–	✓
Sensitive file gathering and manipulation	–	✓



3000 Tannery Way
Santa Clara, CA 95054
Main: +1.408.753.4000
Sales: +1.866.320.4788
Support: +1.866.898.9087
www.paloaltonetworks.com

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