



Three challenges

IT admins face when it comes to

defending against insider threats, and how

user behavior analytics (UBA)

helps overcome them

Security threats aren't exclusive to the external world. While administrators are busy protecting a company's perimeter, a trusted insider could be carrying out a malicious attack from within the boundary. In fact, insider threats are more dangerous than external attacks, because these attacks use legitimate credentials, machines, and access privileges.

Insider attacks require quite a bit of time and effort to contain and resolve. This may result in IT administrators spending weeks, if not months, dealing with the fallout of an insider attack rather than investing that time in business-driving tasks.

Traditional SIEM solutions are ill-equipped to tackle these threats. In this solution brief, we'll take a look at the main challenges IT administrators face while trying to fend off insider threats, malicious or otherwise, and the ways IT teams can overcome them.



Monitoring deviations in user behavior.

Traditional SIEM solutions fail to analyze user behavior and don't detect anomalies in this behavior. As a result, when an employee is working with sensitive data, it can be hard to know whether they are just doing their job or something malicious.



28 percent

of all breaches involved internal actors.



are rarely capable of tracking advanced threats or

more sophisticated insider threats.



68 percent of all breaches in 2017 took a month or longer to discover.



Identifying vulnerabilities and risks.

It only takes one person to carry out an attack that causes lasting damage. Traditional SIEM solutions don't usually offer any risk assessment to help enterprises take proactive steps to protect themselves against breaches.



55 percent

of all breaches involved internal actors.



User behavior analytics in ADAudit Plus

Given how advanced many cyberattacks are, manually creating more alert rules in a traditional SIEM solution alone simply isn't an effective way of detecting threats. This is because existing security solutions use static threshold values to differentiate between what's normal and what's not.

Enterprises need to include anomaly-based analytics to strengthen incident detection mechanisms. User behavior analytics (UBA) helps you gain better insight into your users' activities so you can detect and respond to insider threats.

UBA creates a dynamic baseline of each user's activity and monitors user behavior continuously to detect anomalies. Any activity that deviates from the norm is detected using machine learning. Complementing your SIEM solution with UBA can help you avert a potential breach caused by a malicious insider.

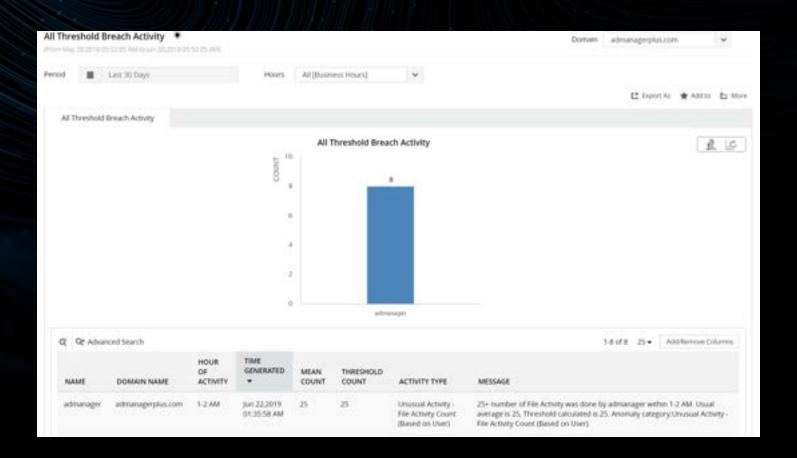


Gartner predicts that the market for UBA will grow at a steep 48 percent CAGR between 2015 and 2020.



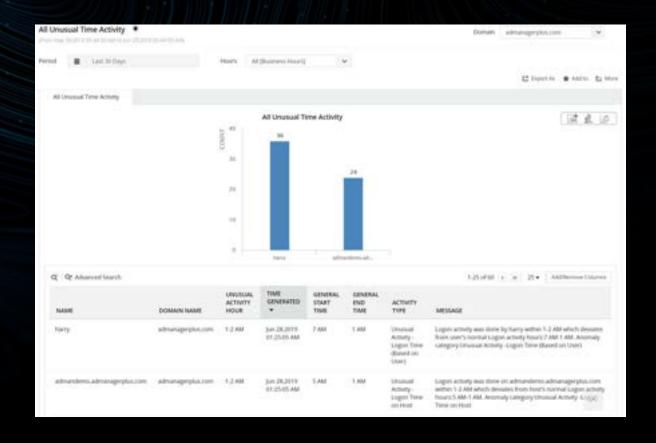
How ADAudit Plus' UBA engine can help you overcome these challenges

• ADAudit Plus uses machine learning to create a baseline of normal activities that are specific to each user to detect potential insider threats. Focusing on your users' activities and looking out for deviations from their usual behavior gives you an important vantage point in identifying threats before they become damaging breaches.



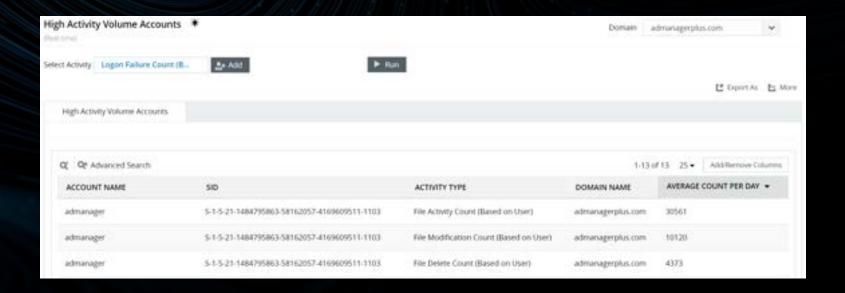


2. The longer it takes to discover an insider threat, the more costly it can be to fix. ADAudit Plus combines data analytics and machine learning to define dynamic thresholds based on real-world user behavior. With its alert thresholds, ADAudit Plus reduces the number of false positives, so security teams can easily spot the real indicators of compromise and quickly respond. In other words, what often takes weeks to investigate using traditional SIEM solutions can be accomplished in seconds with UBA.





3. Enterprises need to scale their diligence and defenses appropriately to effectively detect and mitigate risks. In addition to this, they need to be able to quickly identify the culprit. Companies should foster an environment that prioritizes threats based on the risks they pose, so they can address the most glaring threats in the network first. With risk assessment reports, ADAudit Plus can help identify high risk users and weak points in your network by filtering the hyperactive accounts along with the users connected to the most assets. Monitoring these vulnerable accounts helps reduce the risk of insider threats within an organization.





The various stages of UBA are:

- Collect information on users over an extended period of time.
- Build a baseline of normal activities specific to each user.
- Define dynamic thresholds based on real-world user behavior.
- Find deviations from the norm.
- Notify the concerned security personnel upon deviation.
- Update thresholds continuously based on recent data.



Benefits

- **Efficiency:** Improve detection speed, analyze the impact of security incidents, and respond quickly to them.
- Precision: Move beyond simple rules and utilize targeted attack detection capabilities for user credential theft and abuse to detect attacks quickly.
- Reduced false positives: UBA calculates the threshold value for each user based on their level of activity instead of using a blanket threshold across all users.
- **Better threat detection:** UBA solutions rely on the baseline activities of users to identify unusual user behavior that points to potential attacks.

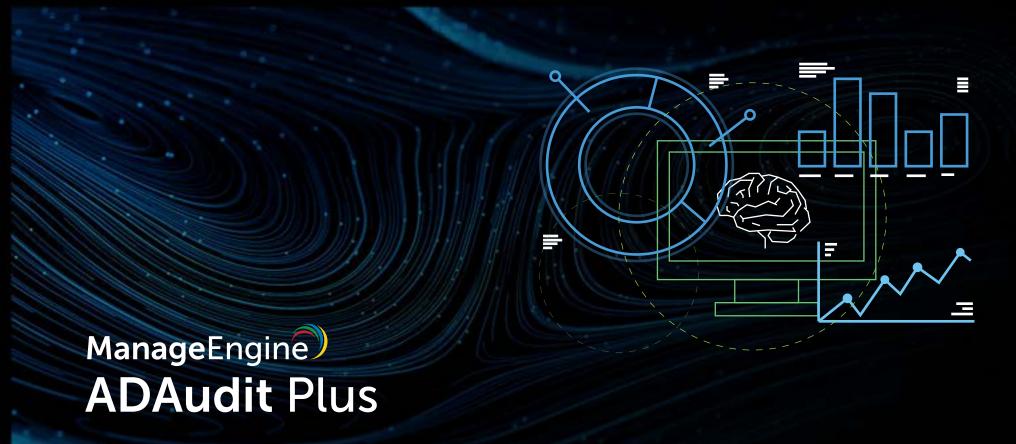


Other useful resources:

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UBA guide

Download
UBA white paper

Download UBA ebook



ManageEngine ADAudit Plus is a real-time Active Directory change auditing solution that features file and folder monitoring, plus access and permission change capabilities. With more than 200 event-specific reports and real-time email alerts, it provides in-depth knowledge about changes made to both the content and configurations of Active Directory, Azure AD, and Windows servers. Additionally, ADAudit Plus provides thorough insight on workstation and file server access (including NetApp and EMC). For more information about ADAudit Plus, visit manageengine.com/active-directory-audit.

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