SECURE YOUR DATA FROM THE INSIDE OUT

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THWART INSIDER THREATS

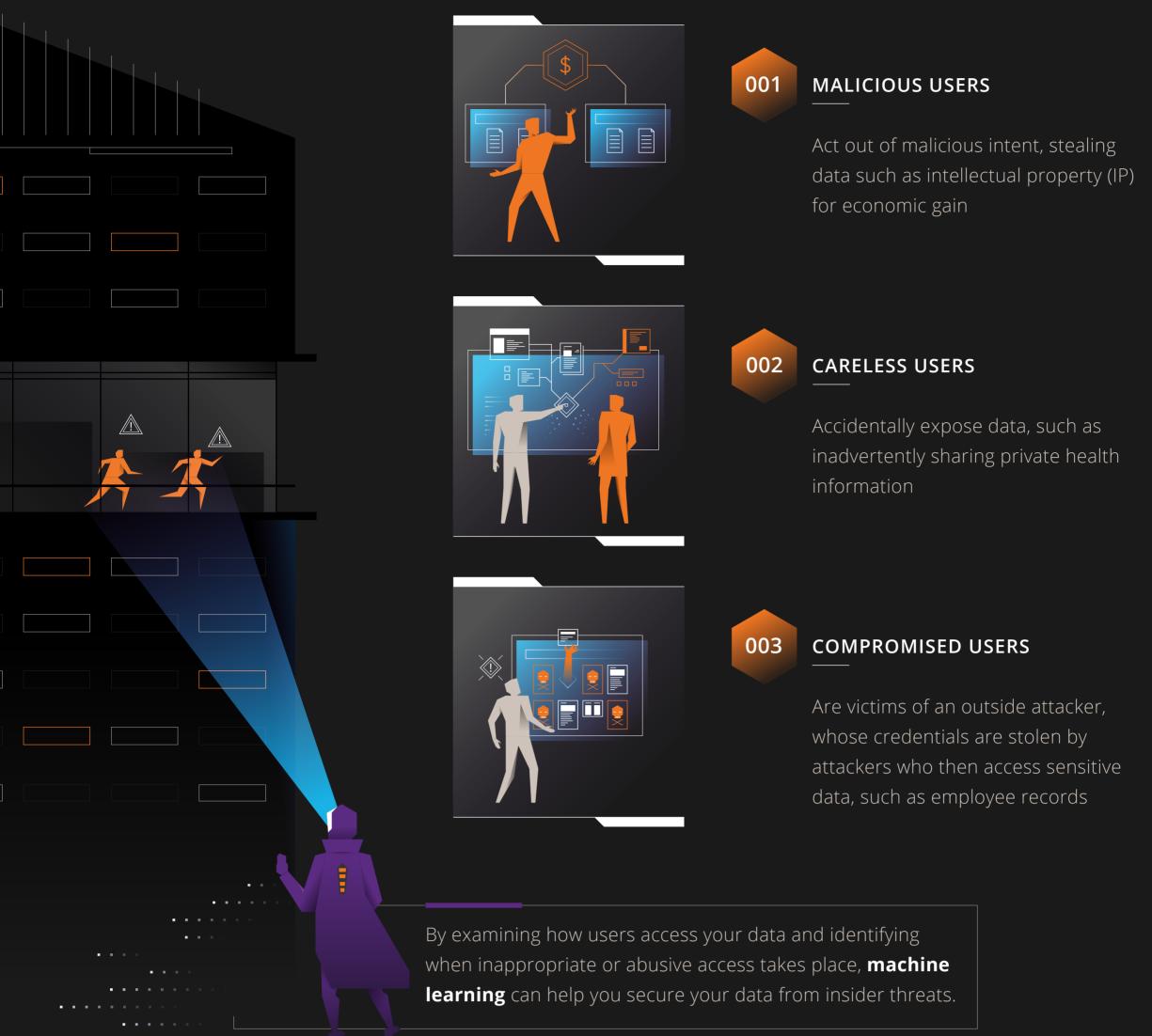
WITH MACHINE LEARNING

Potentially the most lethal kind of threat to an organization's security, **insider threats** can pose risks as significant as—if not more than—external attacks. Because insiders are granted trusted access to sensitive data, these threats often fly under the security radar.

/ THREAT LEVEL / INSIDER

Insiders don't need to break into your network—they're already in, with access to all your company's valuable data.

There are three types of insider threat profiles:



/ MACHINE LEARNING / DEFINED

Machine learning is a type of artificial intelligence that enables computers to detect patterns and establish baseline behavior using algorithms that learn through training or observation.

DO MACHINES DREAM OF INSIDER THREATS?

Machine learning is ideal for detecting insider threats. The vast amounts of data required to identify nuanced, out-of-baseline behavior are impractical for humans to process.



/ BASELINE BEHAVIOR / ESTABLISHED

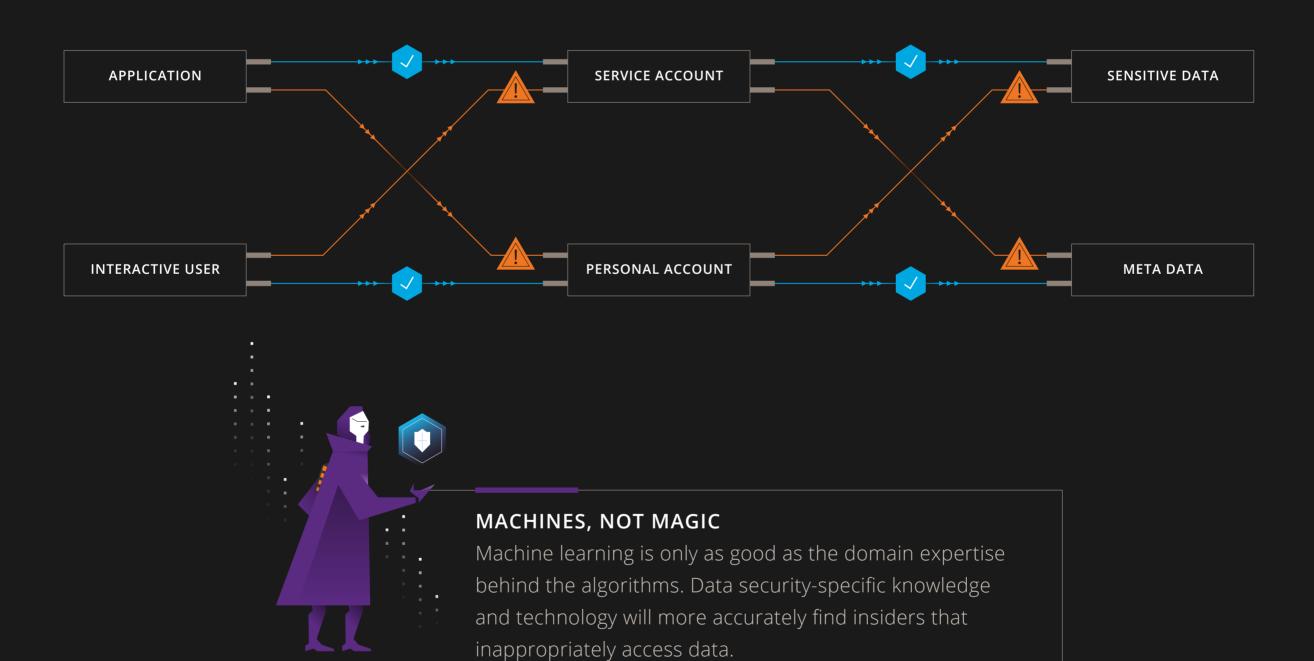
Data breaches occur at the intersection of users and data. Using granular details about how employees interact with data, machine learning algorithms can establish a baseline of typical user behavior across enterprise data stores, then ultimately detect potential breach scenarios.





/ DATA BREACH / DETECTED

Once a baseline has been established, machine learning algorithms can flag potential insider breaches wherever unusual user behavior and sensitive data intersect.



/ INSIDER THREATS / IDENTIFIED

By analyzing the actors, accounts, and data in the environment, machine learning can detect unusual data access behavior and immediately flag suspicious activity, including:



SERVICE ACCOUNT ABUSE

User logs into a database using a highly privileged service account.



SUSPICIOUS APPLICATION DATA ACCESS

User directly accesses sensitive database data.

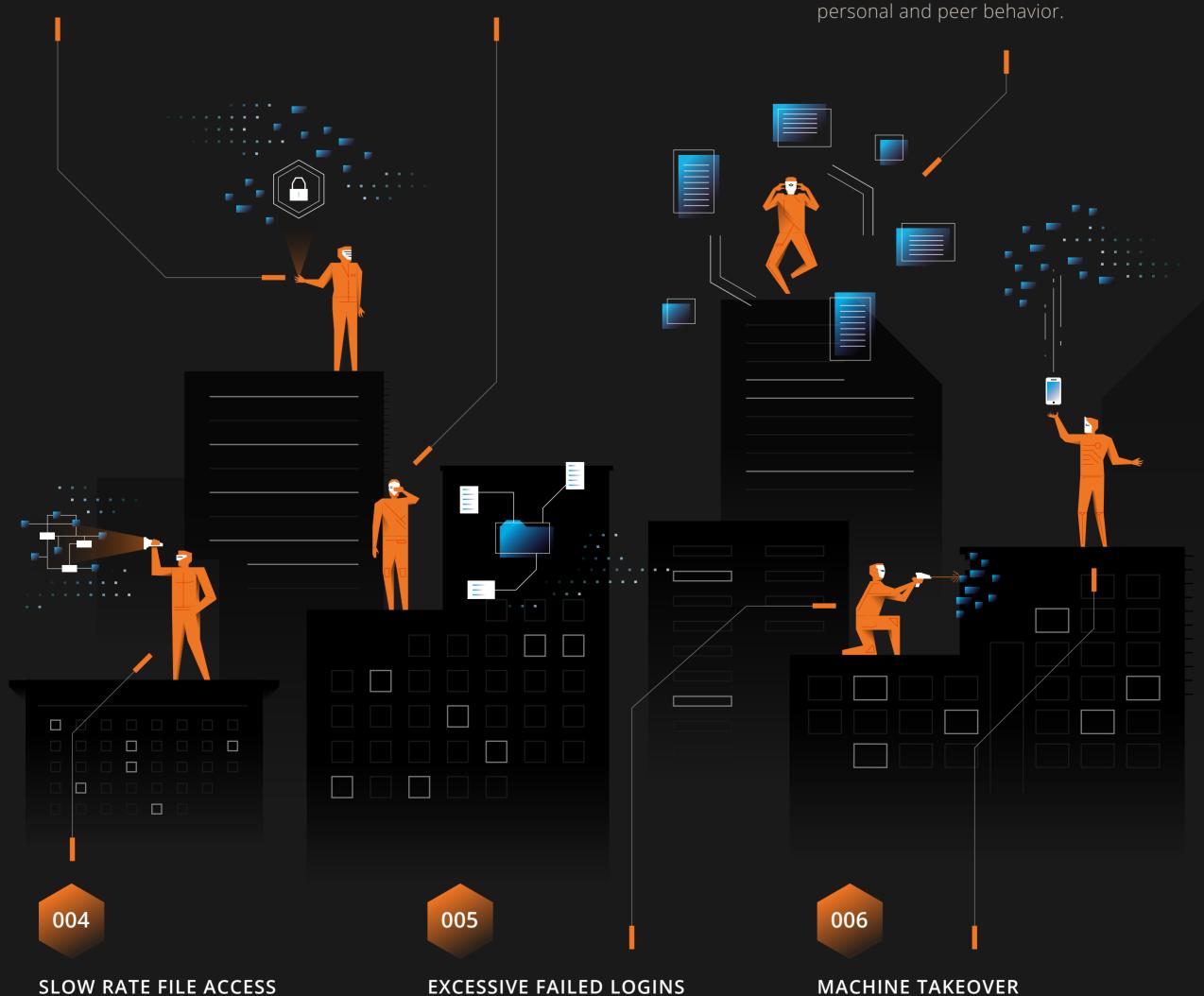


ACCEPTABLE ACCESS

POTENTIAL BREACH

EXCESSIVE DATA ACCESS

User accesses an unusually high number of database records or files, as compared to typical



User accesses or copies an abnormally high number of personal or departmental files from the network file share over the course of one day.

EXCESSIVE FAILED LOGINS

User fails to log in to multiple databases for a number of times.

User logs in to someone else's corporate device to access a database.

Using algorithms to identify patterns and learn baseline behavior, Imperva CounterBreach machine learning technology can save your team time and keep your sensitive data more secure.

WE'LL KEEP AN EYE OUT FOR YOU.

Learn more at imperva.com/products/breach-prevention.

"Insider Threat Study," 2016, Gatepoint Research/Imperva

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