# TickStream.PI™

Password Integrity

a *free* analytics tool using behavior to evaluate authentication

Measures the risk an organization is experiencing as the result of weak, stolen and shared credentials, and identity-related hacking

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# The Problem

Hacking and data breaches continue to mount as IT leaders work to balance privacy concerns, regulations and user experience with much-needed security technology for cyber resilience

**BIOMETRICS**

are non-revocable and create serious privacy, regulatory and cost considerations

**PRIVACY**

and regulatory challenges mount as increasingly stringent laws like GDPR and CCPA become commonplace

**COMPLEXITY**

of solutions and addition of hardware opens new attack vectors and vulnerabilities for hackers to exploit

**TOKENS & DEVICES**

authenticate possession – they do not confirm identity, but they do add cost, friction, complexity and other vulnerabilities

**ROI**

on existing cybersecurity and IT infrastructure is difficult to achieve for many organizations

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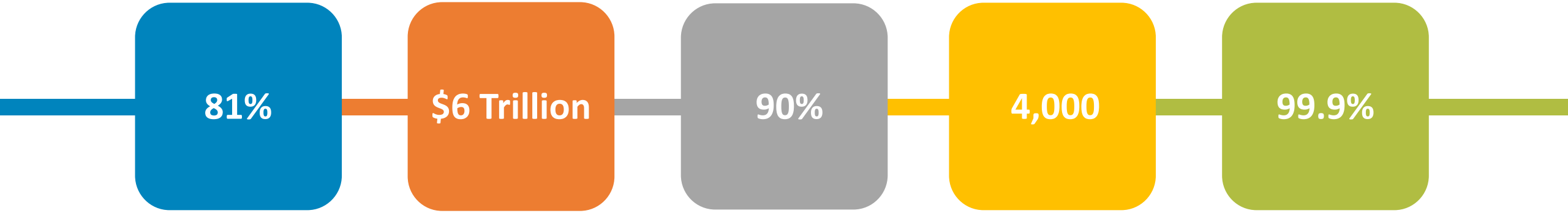
# The Problem is Growing

Billions spent on cybersecurity but digital identity remains uncertain and is the leading cause of data breaches




**DATA BREACHES**
due to compromised credentials[1]

**LOSSES**
from data breaches through 2021[2]

**LOGIN ATTEMPTS**
are credential stuffing attacks[3]

**CYBER ATTACKS**
per day – and rising[4]

**COMPROMISED**
accounts did not use MFA protection[5]

1. Verizon Data Breach Investigation Report, 2. Cybersecurity Ventures Annual Cybercrime Report, 3. Akamai [state of the internet] / security Vol. 5, 4. FBI Ransomware Prevention & Response for CISOs, 5. Microsoft at RSAC

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# Understanding Risk

Organizations have not implemented solutions like MFA because, while it clearly addresses risk, it makes everything more difficult for IT leaders by adding cost, upsetting the logon process, frustrating the user experience, and creating new and more complex challenges for the organization

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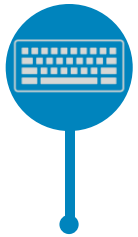
# The Solution

*TickStream*™ keystroke analytics confirm *who* you are by *how* you type – *Password Integrity* is a FREE tool that provides weekly reporting to help organizations quantify the harm from credential misuse, theft and hacking



**KEYBOARDS**
are everywhere, distributed widely in your organization, and where the real work takes place

**IDENTITY**
by keystroke analytics provides authentication as accurately as fingerprints confirm identity

Next generation AI software learns what makes an individual unique

Evaluates claims of identity, with passive user enrollment and a frictionless user experience, to analyze each authentication event

Deploys in your current environment so there is no change to your existing logon process

Compatible with leading SIEM/SOAR platforms, using Common Event Format (CEF) for logging and auditing for data analytics tools

Provides quantifiable risk analysis, enabling you to maximize the ROI of your existing cybersecurity investments and plan your future

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# TickStream.PI™ – Password Integrity

### IMPLEMENT

No new hardware, nothing new for users to do, standard REST APIs, integrations with identity platforms and commonly deployed systems

### PRESERVE PRIVACY

Capturing keystroke timing data only – not text – not habits – not location – not PII – preserving privacy for individuals and organizations

### SAVE MONEY

Free tool helps you understand your risk without breaking the bank – prioritize mitigation and security expenditures based on data-driven analysis

### SECURE

Using keystroke analytics alone, TickStream is as effective as a fingerprint in identity evaluations – the de facto standard – far better than the 90% advertised by others – tightly integrated with and powered by core Microsoft technologies

### USE

Self enrollment and a frictionless experience for users – all they need to do is enter their username and password and their unique behavioral performance does the rest – no device, no token, no problem

### ANALYZE RISK

Understand and quantify the amount and type of harm your organization is facing related to credentials misuse, theft, and abuse – establish appropriate response to reduce the risk of hacking and data breach

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# Benefits of TickStream.PI

High Availability – integrates with your existing cloud and prior IT investments seamlessly

No need for new hardware or dependencies on other devices

Nothing new for users to learn or do

a frictionless user experience

measuring human performance – not habits – not fixed biometrics

Reports password misuse, abuse and hacking events

Assists compliance by auditing the level of identity-related attacks on your network

FREE tool that saves money by guiding identity-related expenditures

An effortless upgrade path…

…to frictionless multifactor authentication

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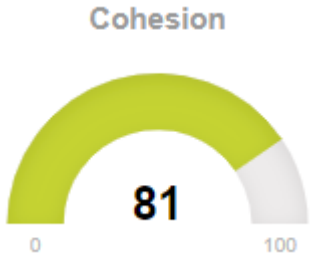
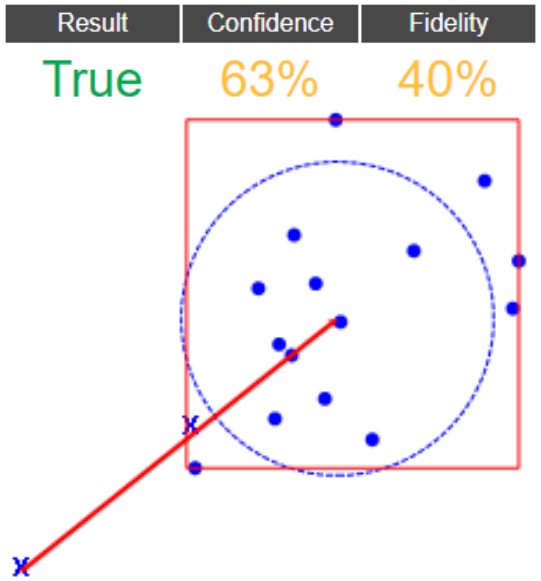
# How it works

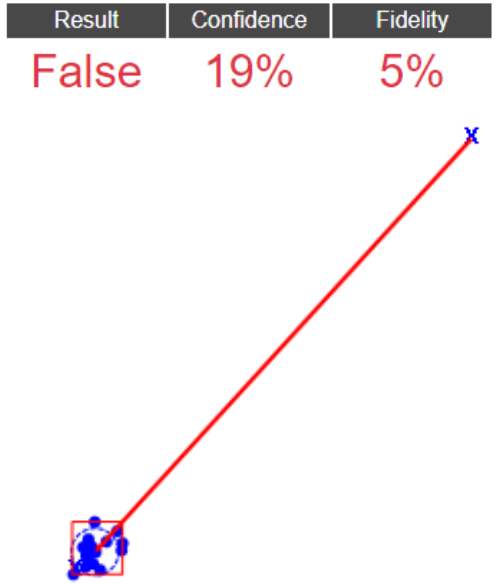
Logging authentication events provides data that identifies whether passwords are being shared, stolen or misused within your enterprise, the frequency and success of botnet attacks and the quantification of risk

TickStream.PI performs this analysis using advanced machine learning and artificial intelligence engines that establish robust user profiles




Once a user profile is established, each authentication event is logged in comparison to the profile to provide insight regarding at-risk credentials and identity related hacking




Event logs includes quantifiable and summary metrics that highlight credentials sharing, password theft, botnet credentials stuffing attacks and other enterprise risks

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# TickStream

Providing free data-driven risk analysis without the need to make changes to your current processes – helping your organization understand the risks associated with credentials sharing, password theft, and hacking so you can take action to protect your organization

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# Customer Focused

Driven by a passion to provide security and privacy along with a fabulous customer experience

**FOCUSED**
to deliver on granular authentication requirements and establish appropriate security based on roles, access and authorization levels and ease of use for a range of user groups

**FLEXIBLE**
to provide full gating, real-time logging, or free event analytics of authentication to achieve the security objectives of your organization

**FRIENDLY**
to users, creating a frictionless login experience to meet security needs without frustrating people or complicating the process of authentication

**FAIR**
to organizations struggling with the cost of cybersecurity and compliance with the flexibility to adjust user counts as your business changes

**FORMIDABLE**
to hackers, protecting your organization with powerful, intense, capable technologies that provide biometric-level security at login without new vulnerabilities

**FUTURE**
designed to help customers increasingly leverage human behavior and, through innovation, move towards private, passwordless authentication

***the de facto standard in keystroke analytics***

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# Proposal

Password Integrity is a FREE tool – and it's future-ready to solve problems immediately when the time comes

**UPGRADE READY**

If Password Integrity reveals risk for your organization – we can help

TickStream.KeyID is an effortless upgrade from Password Integrity and can be implemented to specifically address the risks identified from your free weekly reports

Upgrade enables implementation of real-time authentication event logs, pushed to SIEM/SOAR solutions for immediate alerts on suspicious login activity, and full behavioral MFA, protecting access from unwanted intrusion with keystroke analytics

Best of all,
when you upgrade,
TickStream.KeyID is
already there, with
user profiles built,
and ready to go

- **INSTALLATION** ☑
- **IMPLEMENTATION** ☑
- **TRAINING** ☑
- **SECURITY** ☑

LogRhythm · SECURONIX · splunk> · FIREEYE · solarwinds · RSA · IBM · RAPID7 · MICRO FOCUS

Password Integrity is free to qualified enterprises – ask for details

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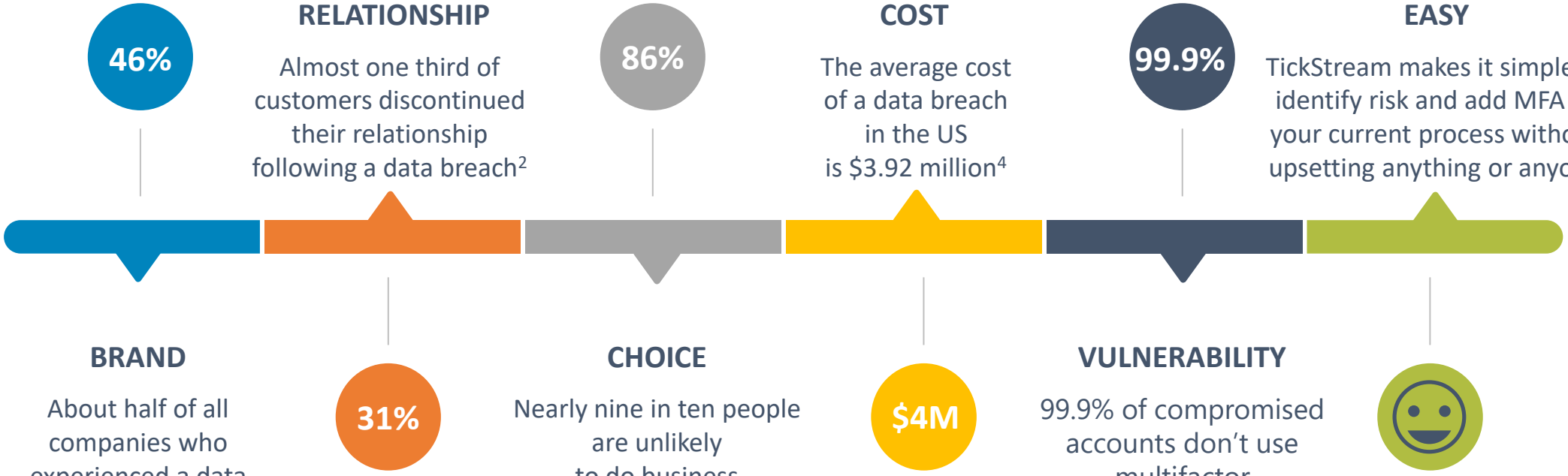
# Why TickStream?

Data breaches damage brands, cause loss of customers, are expensive, and likely to occur – TickStream stops them




1. Forbes Insights & IBM, 2. Ponemon Institute & Centrify, 3. OnePoll & Semaphone, 4. Digital Guardian & IBM, 5. Microsoft at RSAC, 2020.

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# What others are saying

The impact of this technology is dramatic, making passwords and all other forms of multifactor authentication obsolete.

John Cronin, Chairman, ipCapital Group,
Founder of the IBM Patent Factory

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# What others are saying

Our computations show both that Intensity Analytics can greatly reduce the probability that an imposter can successfully use stolen credentials, and if the users are willing to accept a higher threshold of rejection, it can reach a 0% rate, effectively blocking all imposters.

Drs. Gantz (Chairman Emeritus) & Miller
Department Heads: Information Technology, Statistics
George Mason University

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