Comment déjouer plus efficacement les attaques visant les identités ?



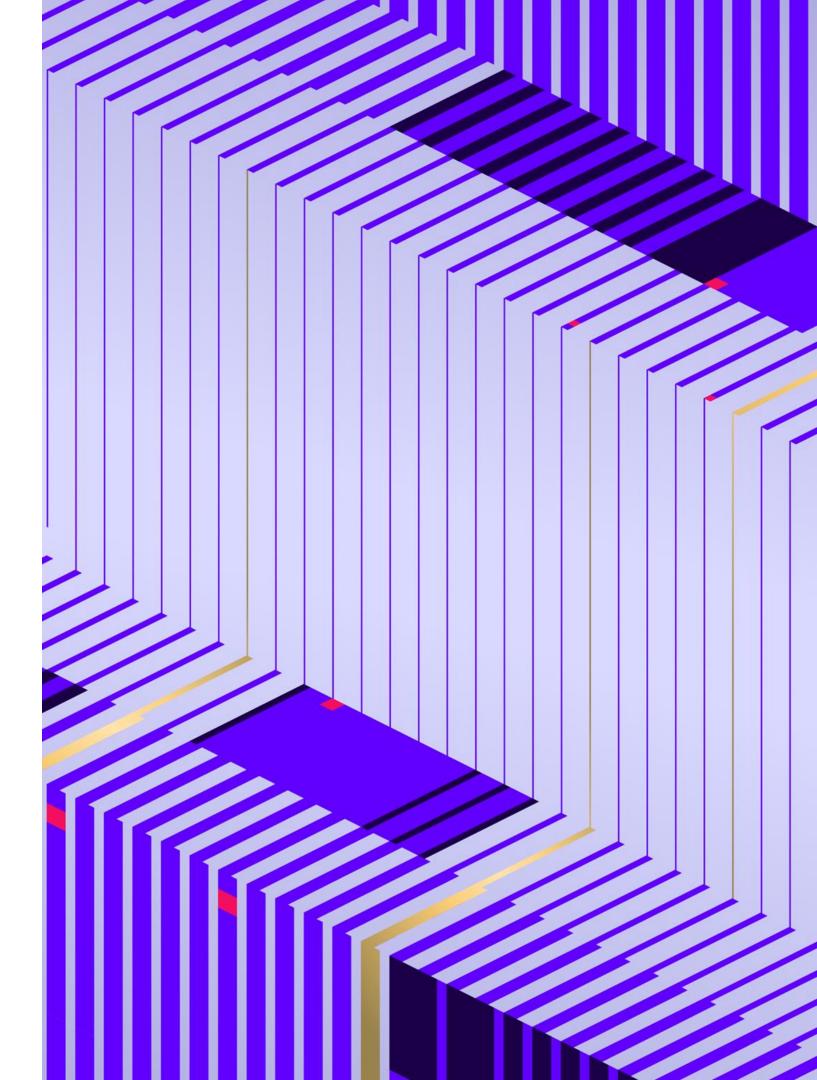
Samuel Pages
Associate Solutions Engineer
SentinelOne



François Baraër Staff Solutions Engineer SentinelOne







Agenda

- Understanding Identity Risks
- Goals of Identity Protection
- Identity Part of the Singularity Platform
- Identity Security Recommendations
- Q & A



Identity Security Challenges



Rapid enterprise identity expansion



Attackers using advanced techniques



Poor identity security hygiene (AD/Entra ID)



Privileged identity management issues



Attackers Target Identity Data

Credentials and AD are High Priority Targets

\$4.62M

the average cost of a breach due to compromised credentials

(IBM 2023 Cost of a Data Breach Report)

328 days

to identify and contain a breach due to stolen creds (longest)

(IBM 2023 Cost of a Data Breach Report)

37%

of 2023 breaches involved credentials (#1 entry point)

(Verizon 2024 Data Breach Investigation Report)

31%

of 2013-23 breaches, attackers stole credentials (#1 stolen data)

(Verizon 2024 Data Breach Investigation Report)

90%

of orgs experienced an identityrelated breach in the past year

(IDSA 2023 Trends in Securing Digital Identities)

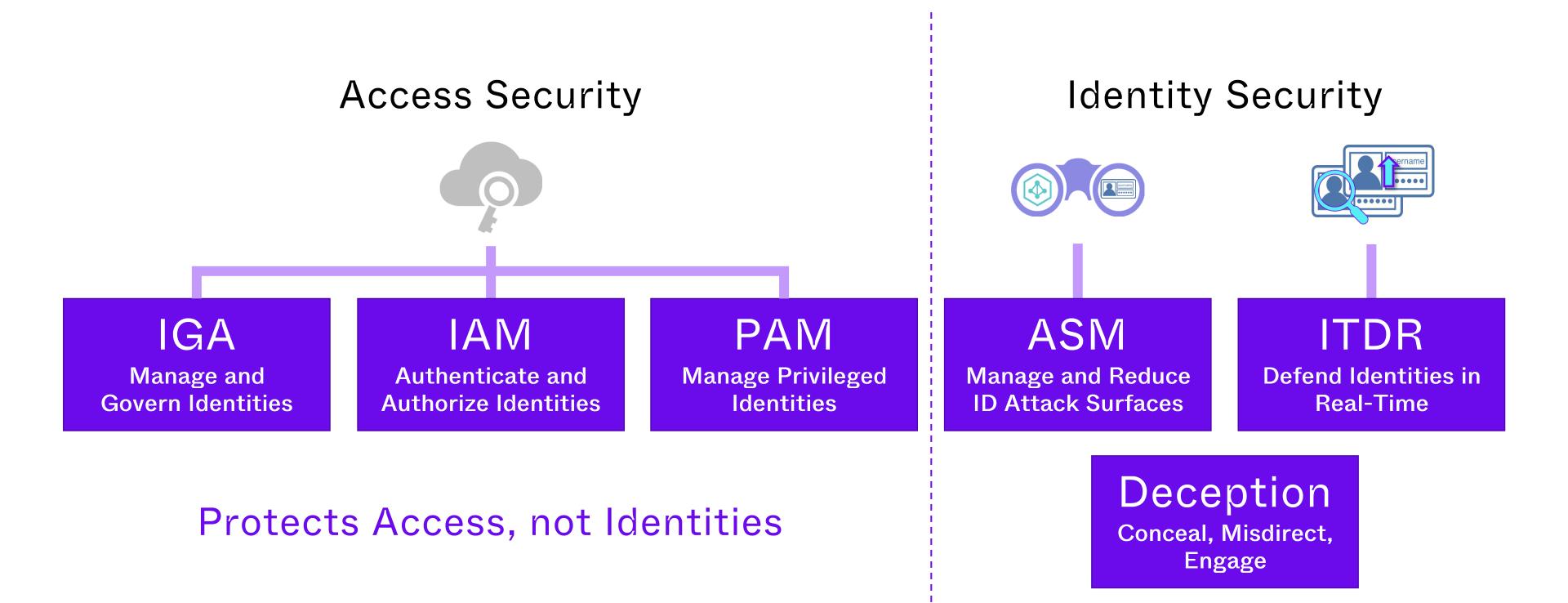
68%

orgs had a business impact from an identity-related incident

(IDSA 2023 Trends in Securing Digital Identities)



Identity Defense Solutions





Identity Security Goals



Reduce Attacker Opportunities to Succeed



Find Attackers
Early Before They
Exploit Identities



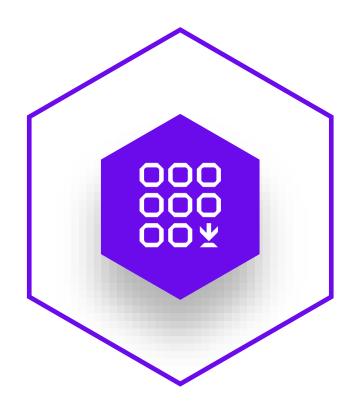
Disrupt
Attackers from
Misusing
Identities



Make Identity a
Pillar of the
Security Strategy



Introduction to Singularity Identity



ISPM

Identity Security Posture Management

- Installs on 1 domain-joined endpoint
- Remediation of detected vulnerabilities
- Proactive alerts on misconfiguration and exposures



IDP

Identity Provider

- Installs on Domain Controllers
- Protects against attacks to AD regardless of source
- Employs deep packet inspection and analysis of AD logs



IDR

Identity Detection & Response

- Protects against attacks at endpoints
- Detailed insights from the endpoint
- Employs intercepting queries to AD and manipulating the results

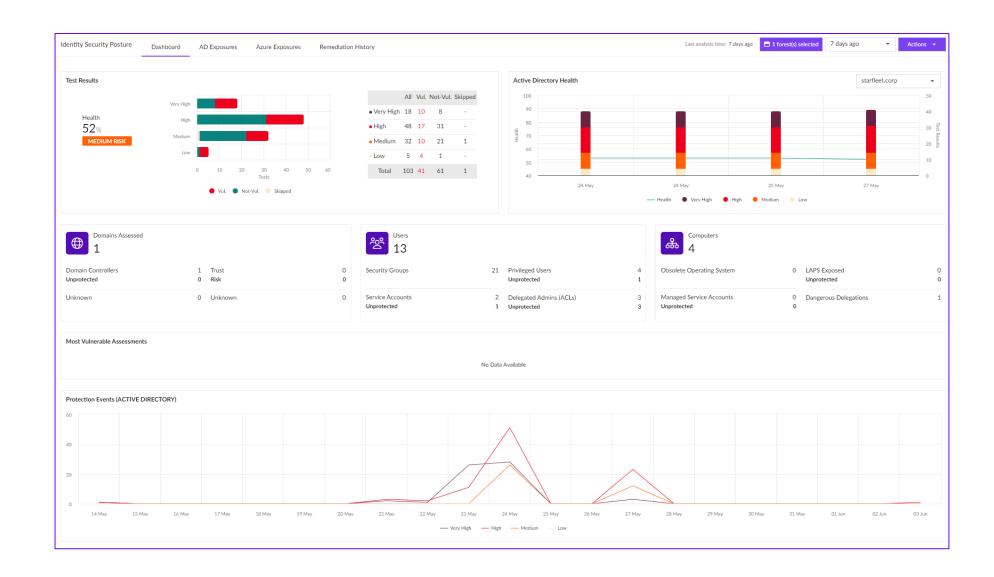


Singularity | Identity Posture Management

AD and AAD Attack Surface Control

Singularity Identity Posture Management shrinks the identity attack surface by identifying and remediating identity infrastructure misconfigurations, exposures, and vulnerabilities in on-premises Active Directory & cloud-based Entra ID (formerly Azure AD).

- Systematically monitor Active Directory and Entra ID for misconfigurations and exploitable vectors
- Gain actionable information needed to correct exposures
- Stay informed of suspicious AD change events and overprovisioned entitlements

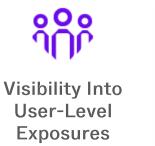
















Singularity | Identity for IdPs

AD Attack Surface Reduction + Real-Time Identity Attack Protection

Runs on Active Directory Server

- Small, Low-Impact Agent Footprint
- Deep Packet Inspection & Behavioral Analytics for All AD Activities

Enforce Conditional Access for Suspicious AD Transactions

Force MFA Using Industry-Leading IAM Solutions

Detection of Advanced Identity-Based Attack Techniques

- Golden Ticket Attacks
- Silver Ticket Attacks
- Skeleton Key Attacks
- Pass-the-Ticket Attacks
- Pass-the-Hash Attacks
- Overpass-the-Hash Attacks

- Forged PAC Attack
- DCSync Attack
- DCShadow Attack
- AS-REP Roasting Attack
- Recon of Privileged & Service Accounts





Single Device Installation



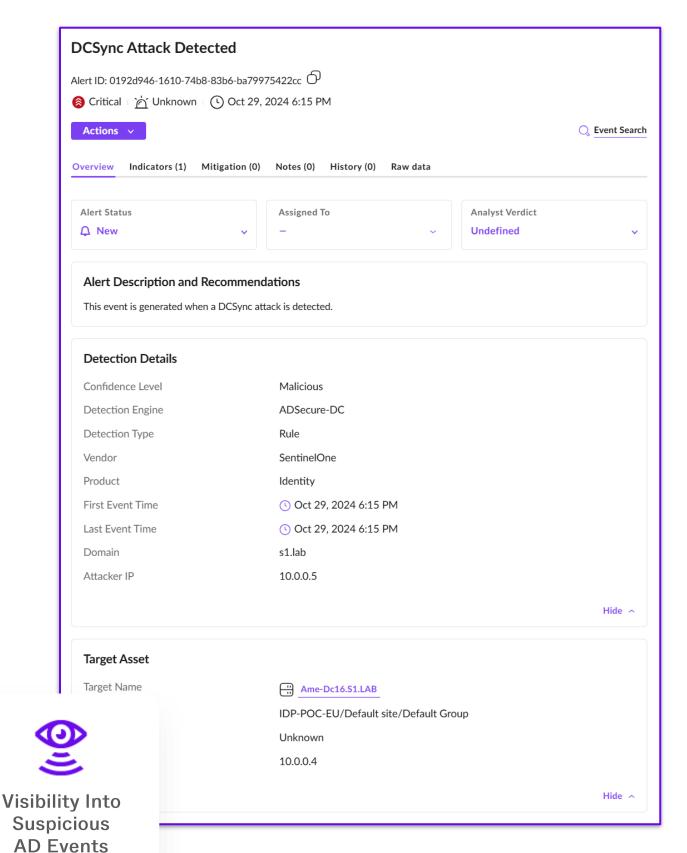
Visibility Into Domain-Level Exposures



Visibility Into Device-Level Exposures



Visibility Into User-Level Exposures





Singularity | Identity for IdPs

Compromised Credential Protection

- Realtime protection from creating or resetting compromised or weak credentials via policy
- Automated response measures such as changing passwords and disabling accounts for compromised passwords
- *Enhancing visibility* for users whose passwords have been compromised by adding an detect and protect mode
- Enforce custom banned passwords through a blocked list of easily guessed, commonly used passwords
- Weekly security scans to check if any credentials we are protecting have been disclosed on the dark web



Over 80% of data breaches are due to poor password security.



Singularity | Identity Detection and Response

Endpoint Identity Attack Detection & Misdirection

Defend Your Domain

Detect Active Directory attacks from any device type or OS.

Thwart the Adversary

Steer attackers away from AD crown jewels with misdirection down dead-end alleys

Deflect, Protect

Hide credentials and production data while making lateral movement difficult







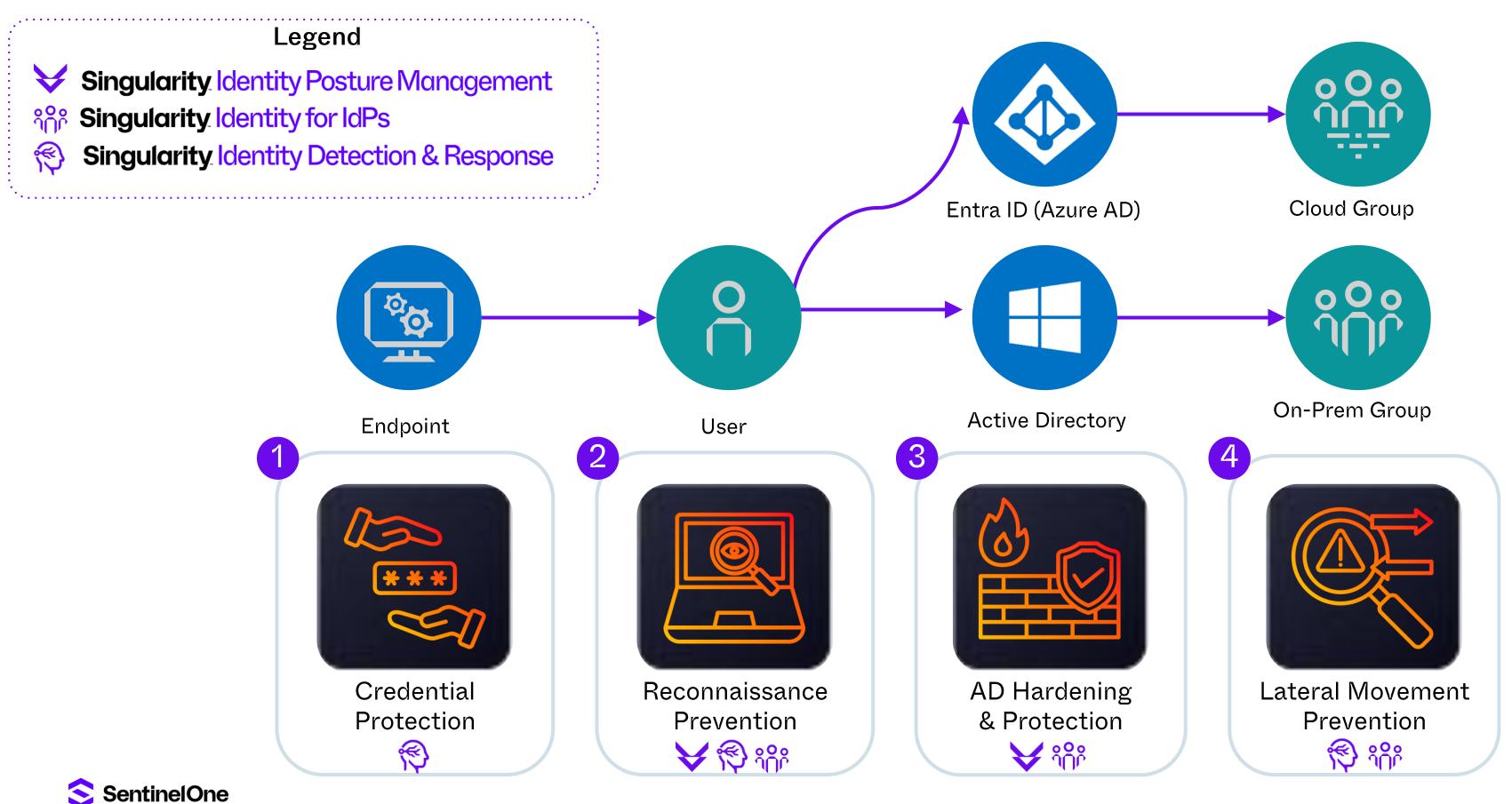








Comprehensive Identity Security



Identity Security Recommendations



Reduce the Identity Attack
Surface



Protect the Identity Infrastructure

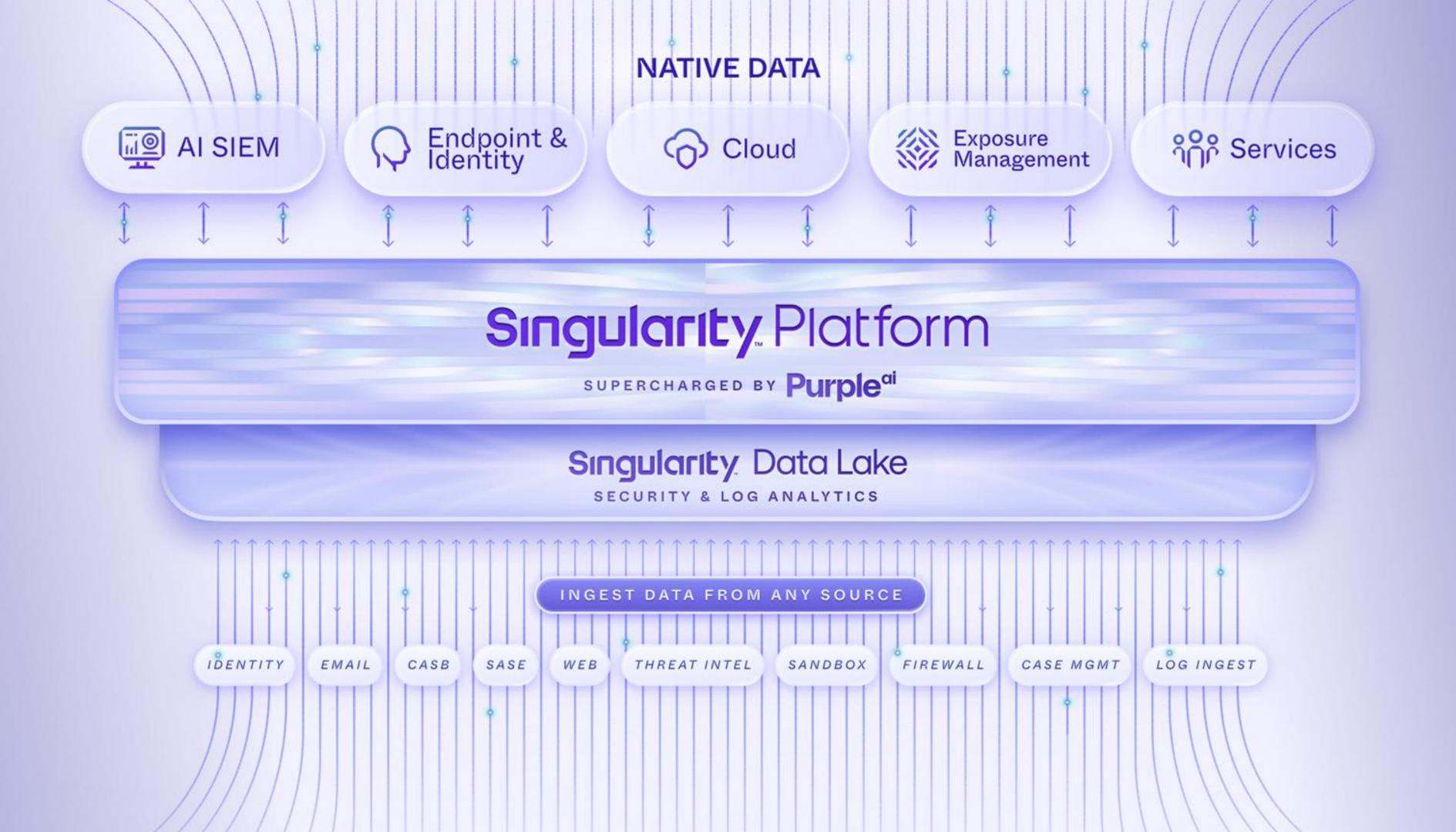


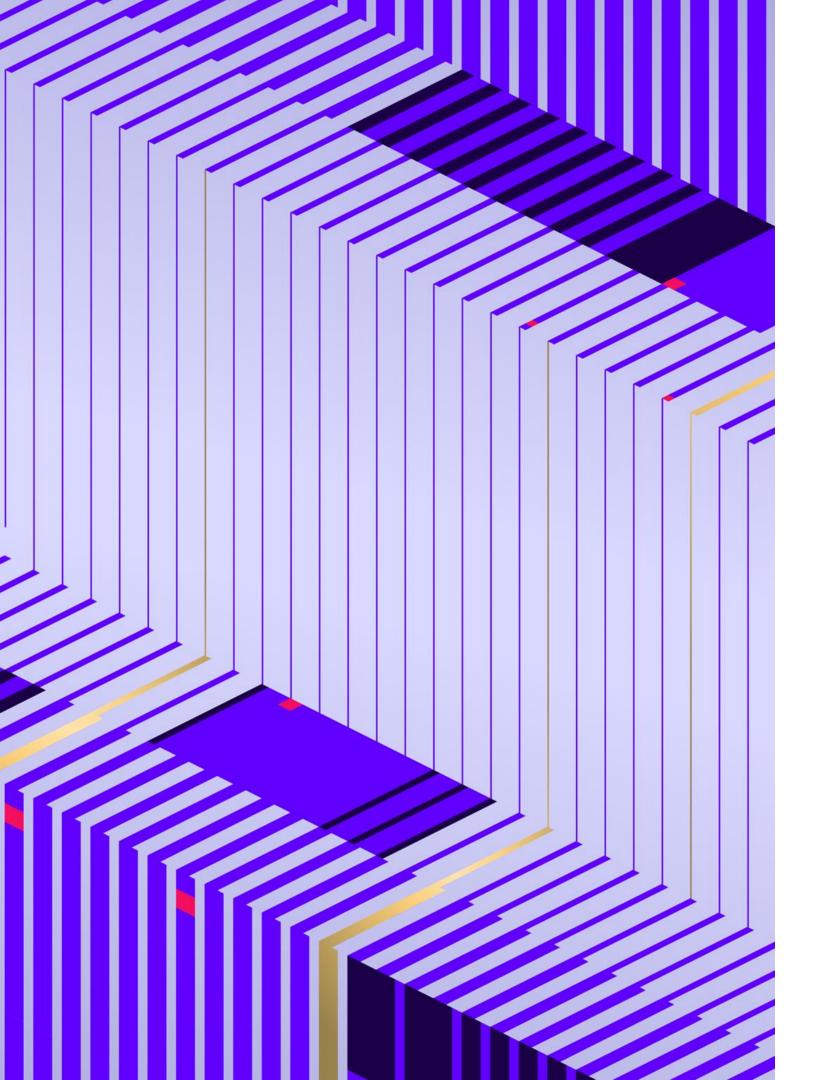
Disrupt
Attackers Early
in the Attack
Cycle



Incorporate
Identity into a
Holistic
Platform









Questions?