



12TH ANNUAL LEADERSHIP EVENT

CYBER SECURITY SUMMIT

Security solutions through collaboration.™

TITLE SPONSOR



Island

EYES WIDE OPEN



Authorization: The New Frontier of Identity-First Security for Data



The Basics: Authentication vs Authorization

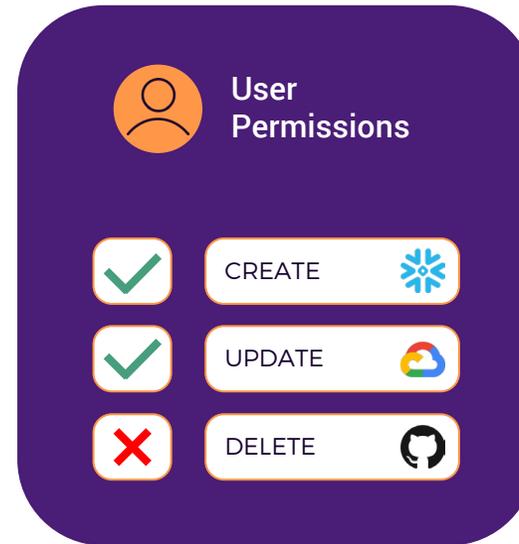


A purple rounded rectangle representing an authentication form. At the top is an orange circle with a white person icon. Below it are two white input fields with orange borders, labeled 'USERNAME' and 'PASSWORD'. At the bottom is an orange button with the text 'LOGIN'.

Authentication: Who are you?

- Single sign-on (SSO)
- Federation (SAML)
- Multi-Factor authentication (MFA)

VS



A purple rounded rectangle representing a user permissions interface. At the top is an orange circle with a white person icon and the text 'User Permissions'. Below are three rows of controls. The first row has a green checkmark icon, a white button labeled 'CREATE' with a blue snowflake icon, and a white button with a blue snowflake icon. The second row has a green checkmark icon, a white button labeled 'UPDATE' with a colorful cloud icon, and a white button with a colorful cloud icon. The third row has a red 'X' icon, a white button labeled 'DELETE' with a black trash can icon, and a white button with a black trash can icon.

Authorization: What actions can you take?

- RBAC: Role Based Access Control
- ABAC: Attribute Based Access Control
- Entitlements management

Privilege is at the root of leading threat vectors...



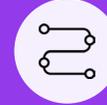
Ransomware

70% of CISOs expect to be impacted by ransomware in the next 12 months
2021 CISOs Connect Survey



Insider threats/sprawling attack surface

Negligent insiders are the root cause of 56% of incidents
Ponemon Cost of Insider Threats Report 2022



Supply Chain Attack

62% organizations targeted by software supply chain attacks in 2021
Anchor Software Supply Chain Security Survey

Privilege abuse is a major factor across threats

#1

misuse variety identified in breaches is privilege abuse

verizon[✓]

Verizon Data Breach Investigation Report (DBIR) 2022

...And data is the “Crown Jewel” most under attack

Data is the target of the largest threats

- Ransomware: #1 cyber threat ¹
- 93% of companies experienced data-related disruption ²

Traditional responses are unreliable

- Only 12% of victims paying ransoms ³
- 60% of ransomware victims experienced unrecoverable data ²

Attacks Continue to Evolve

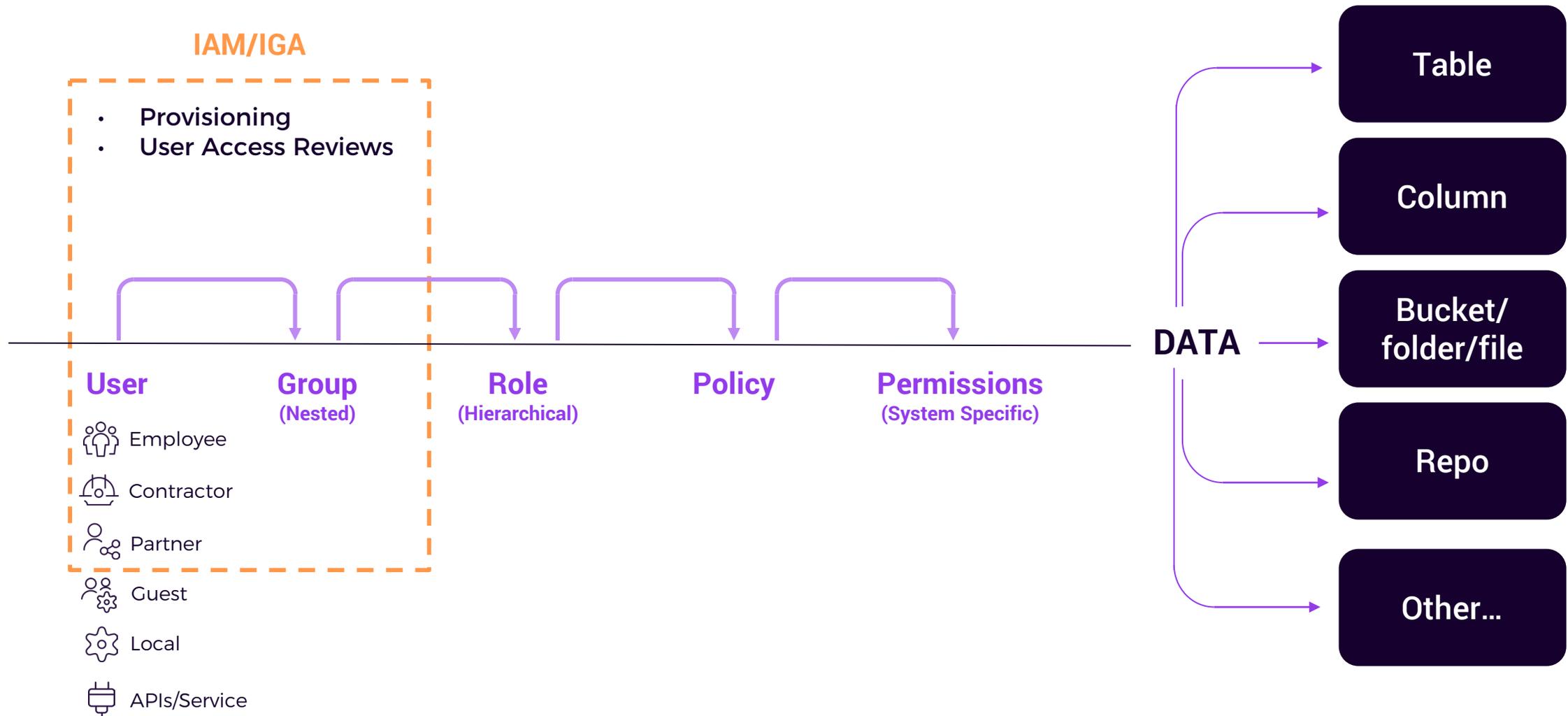
- New attack strategy: encrypt & leak data
- Leaking data -> to sell, threaten, or punish
- “Data tampering”: threat to restoring from backup ⁴

1. IBM, X-Force Threat Index Report, 2022
2. IDC, The State of Ransomware and Disaster Preparedness: 2022
3. Corvis Risk Insights Index, Q4 2021
4. Microsoft Digital Defense Report, Oct. 2021

FUNDAMENTAL SECURITY GOAL: MANAGING PRIVILEGE TO DATA

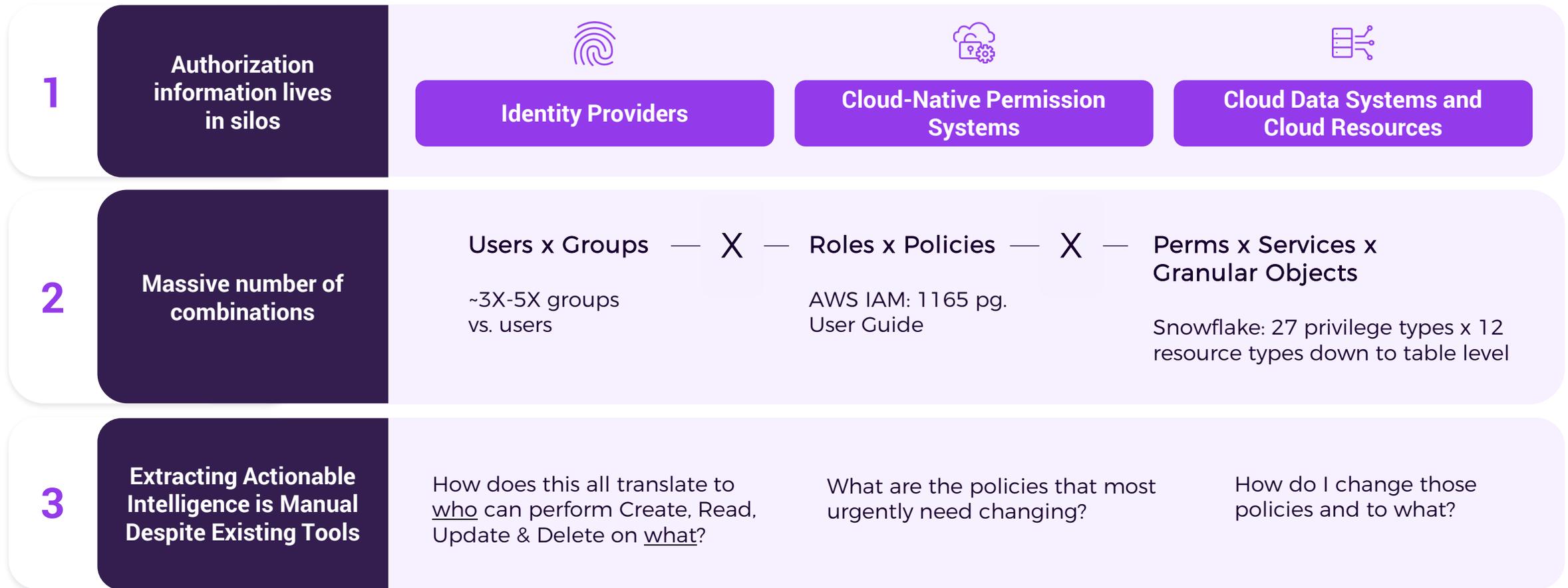
**“Who can and should take
what action on what data?”**

How Typical IAM & IGA Solutions Fall Short

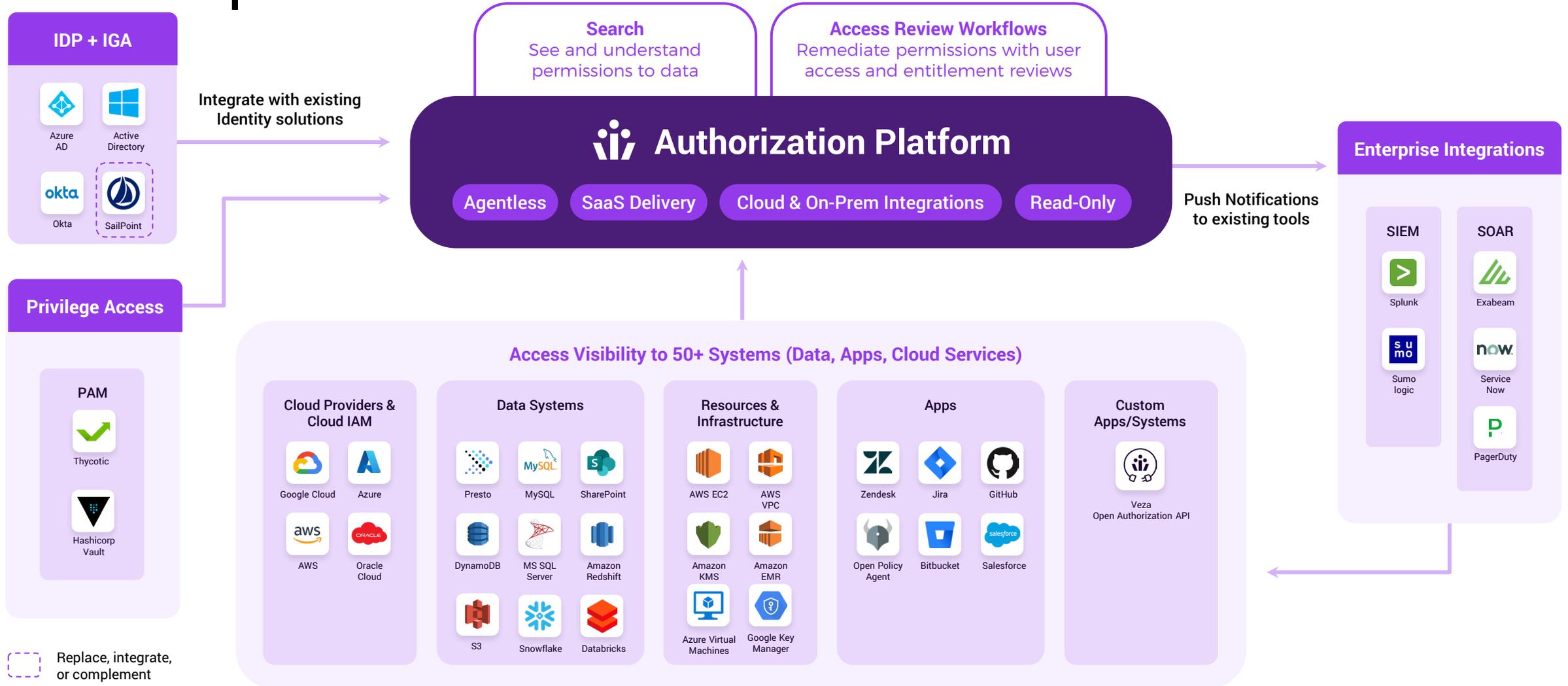


Why the Problem Is so Difficult Today

Complexity, Scale & Manual



Case Study: Authorization Platform in the Enterprise



Power of Leveraging a Graph

Understand, Manage & Control Permissions to Data

 All users in HQ



Employees



Service Accounts



Partners



Contingent Workers



Bots



APIs

Users

Groups

Roles

Effective Permissions

Data Stores

Apps

 Billy.Hargrove

 Administrators

 aws AAD-Admin

Create, Write, Update

 Sugar-1-Marketing

 Jira

 Dustin.Henderson

 BackEnd

 aws AAD-BackEnd

Create, Write, Delete

 Flour-95-Finance

 Github

 Jim.Hopper

 Finance

 aws AAD-Finance

Read, Metadata

 Choco-12-Eng

 Custom App

 Jonathan.Byers

 FrontEnd

 aws AAD-FrontEnd

 **1** Mike.Wheeler

 CorpMarketing

 Okta-SuperAdmins

 Nancy.Wheeler

 Sales-Ent

 Okta-HelpDesk

 Chip-01-Sales

7,000 more users...

12,000 more groups

Applying to Access Review Workflows

Remediate permissions with user access and entitlement reviews

Certify Workflow
Access review for Okta

Certification Note
2022-06-10
Reviewers

Query Details
Constraints
Tags

Workflow Details
Name
Description
Creator
Owner
Privilege Graph Snapshot Date
Workflow Schedule & Notification

USER	RESOURCE TYPE	RESOURCES	Status
leslie.beekman	SnowflakeTable	chocolatechip...	Approved
leslie.beekman	RedshiftTable	chocolatechip...	Rejected
leslie.beekman	RedshiftTable	chocolatechip...	Approved
leslie.beekman			Rejected
leslie.beekman			Approved
leslie.beekman			Rejected
leslie.beekman			Approved

Complete Certification

Approve Rejected

Approved Rejected

Approved Rejected

1 OktaUser ... 1 OktaGroup ... AWS 1 Awsia... ... Write, Create 1 RedshiftFa... ...

leslie.beek... customer... AWS customer... chocolate...

User Access Reviews **Resource Entitlement Reviews** **Privileged Access Reviews**

Key Requirements

- Manage CRUD for any app, cloud resource, or data system
- Leverage “Effective Permissions” to do reviews in a language business users can understand
- Delegate the creation of workflows and certifications across teams

Reduce risk by doing reviews on the resource that matters- the data- and put an end to “Security Theater”

Authorization: Use Cases Across Multiple Teams

● CISO teams ● Data teams ● Infra teams ● DevOps teams

- 1** Security Assurance / GRC Implement and document access reviews and certifications
- 2** Identity / Security Engineering Progressively reduce risk over time by fixing over-permissioning
- 3** Security Operations Respond to security incidents & perform forensics on who had access to what at what time
- 4** Security / Data Architects Design and validate data authorization policies (e.g., for M&A)
- 5** Data Owners Support decision making for new data access request
- 6** Cloud Infrastructure Accelerate approval of of new cloud data infrastructure
- 7** DevOps Enforce separation of duties for CI/CD pipeline (across commit, merge & deploy)
- 8** IT Operations Provision new right-sized roles

Top
Priority

Benefits Realized

Real-world customer examples



Streamlined Entitlement
Reviews

86%

reduction in time to complete access certifications for data in GitHub, AWS, custom apps and more

F500 Software
Company

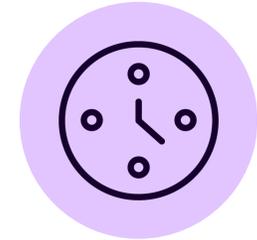


Reduced Attack Surface

>\$1M

saved per year in reduced attack surface and infra costs to optimize excess cloud resources from IAM permission sprawl

Leading Marketing Tech
Company



Increased Setup Efficiency

<30 mins

to create and kickoff a campaign for 5K+ entitlements for a SOX app, auto-assigned to dozens of reviewers

World's Largest Alternative
Asset Manager



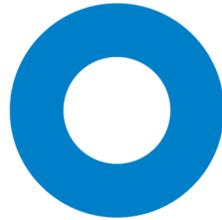
Bluecore Perspective

Bluecore + Veza



Brent Lassi

CISO, Bluecore



Okta



Google Cloud IAM



BigQuery



Google Cloud
Compute



Google Cloud KMS



Google Cloud
Storage



Thank you!



ADD YOUR LOGO



ADD YOUR LOGO

