CYBERARK®

The Identity Security Company ™

Future of Security is Identity

Chillisoft & CyberArk

30th November 2023

Agenda

11.00	Welcome note
11.05	Latest Cyber Threat Landscape
11.35	Fireside Chat with Phil Lewis, Technical Lead Cybersecurity, SkyCity
11.50	Q&A

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Company Overview

CYBR — Listed on NASDAQ in 2014

8,000+ — Global Customer Base, with over 1,000 consuming PAM as SaaS

3,000+ — Total Employee Count, with 1/3 in Product

250+ — Customers in ANZ

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New Identities

New Attack Methods

New Environments

Consolidation of Trust

PAM as it Began

Administrator

ON-PREMISES DATACENTER

SERVERS

MAINFRAMES

DATABASES

APPLICATIONS

NETWORK DEVICES

SECURITY APPLICANCES

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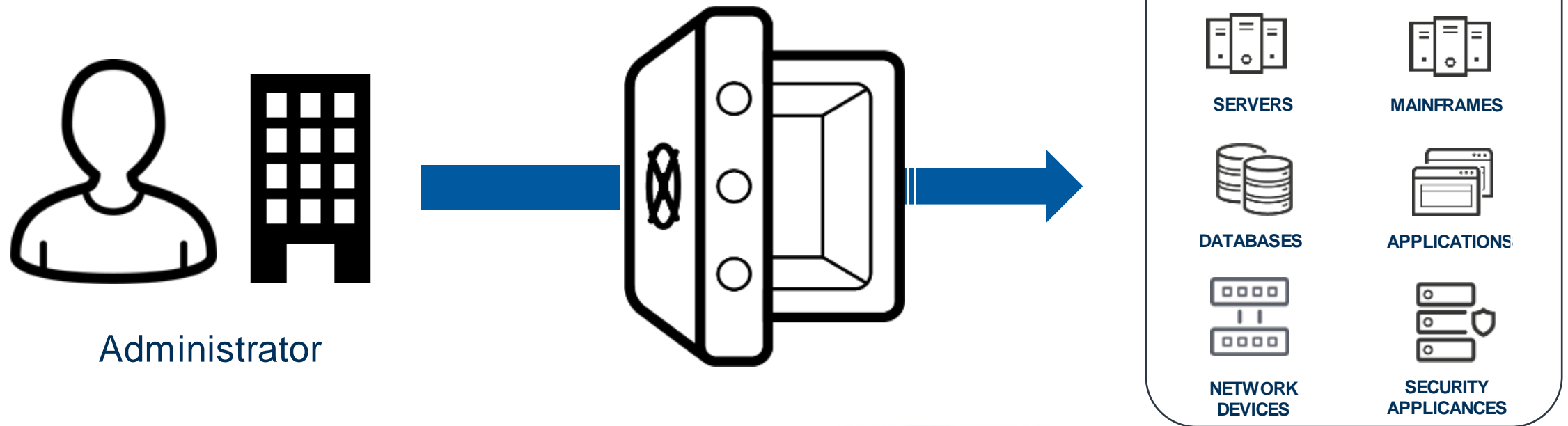
What does Privileged Access mean in 2024?

VMs
IT Ops Tool
App Server
Database
Network Devices

Office 365
Salesforce
Zoom
G Suite

Microsoft Azure
Google Cloud
Amazon
Cloud Native Apps
Containers
IoT
Serverless

Admin
DevOps
Apps/Machine
3rd Party
Workforce

Office
Work from Home
Temporary Location

Mac
PC
Mobile

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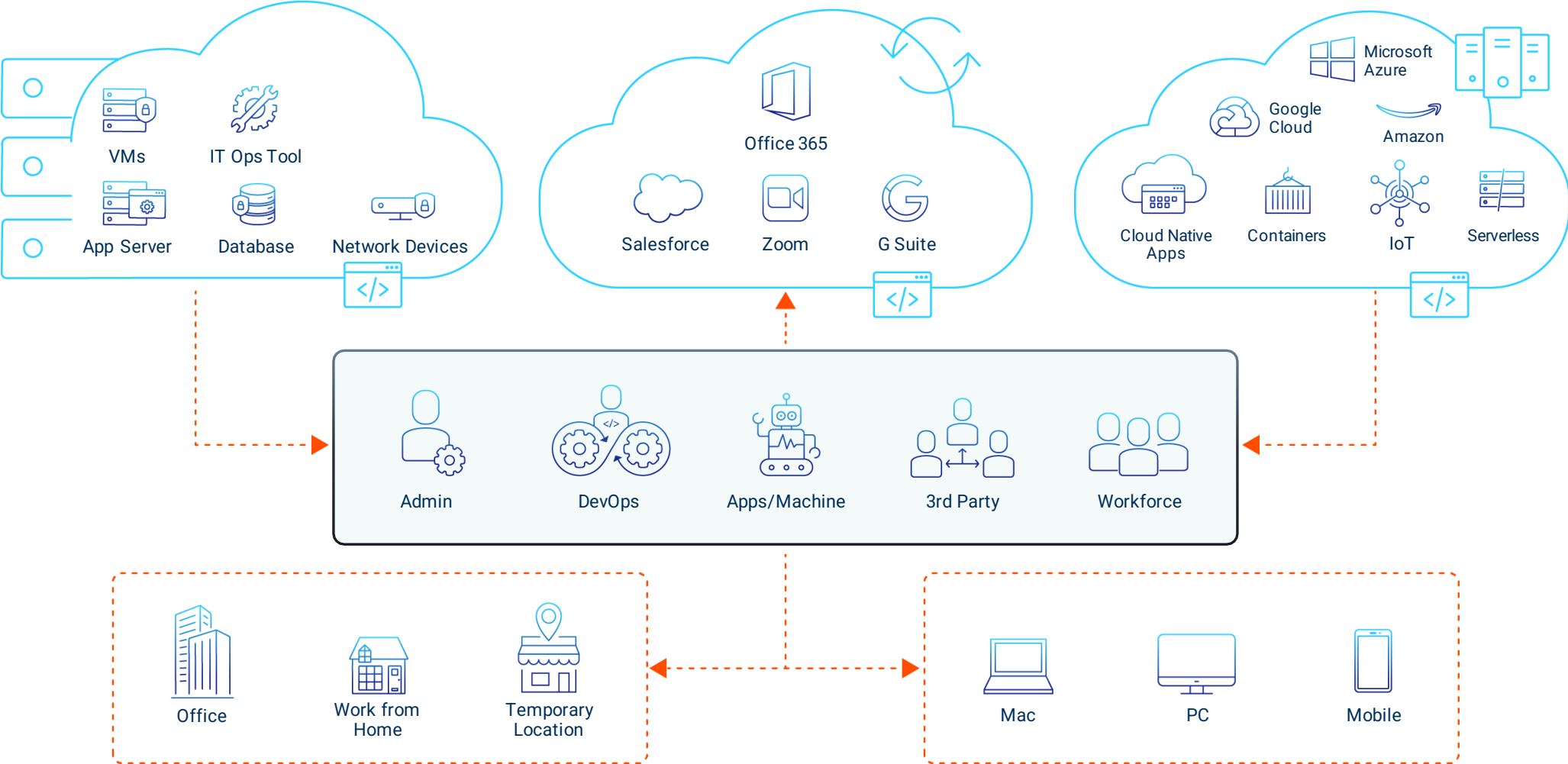
LastPass – Unauthorized Cloud Console Access

LastPass ✓ @LastPass · Aug 25

We recently detected unusual activity within portions of the LastPass development environment and have initiated an investigation and deployed containment measures. We have no evidence that this involved any access to customer data. More info: blog.lastpass.com/2022/08/notice...

LastPass •••|

Official Statement from LastPass

Learn More

- ***The Attack:***

1. Attacker gains initial access to senior engineer's home network and deploys keylogger malware

2. Keylogger malware compromises engineer's credentials to LastPass Master password store

3. Attacker steals AWS credentials with powerful permissions

4. Attacker logs into AWS console, moves laterally

5. Attacker exfiltrates data from AWS S3 Storage Buckets holding customer Vault data, steals LastPass source code

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3rd Party Access

50%+ of breaches in 2022 involved remote access or web applications
2022 Verizon DBIR report

40% have poor/inconsistent processes for vendors with privileged access
Simply Direct and CyberArk Survey 2022

84% say that increase in outsourcing of remote vendors is one of the top sources of risk
(CyberArk Threat Landscape Report 2022)

IT Infrastructure

Sensitive Web Applications

Internal Applications

Protected Health Information

Industrial Control Systems

Operational Technology

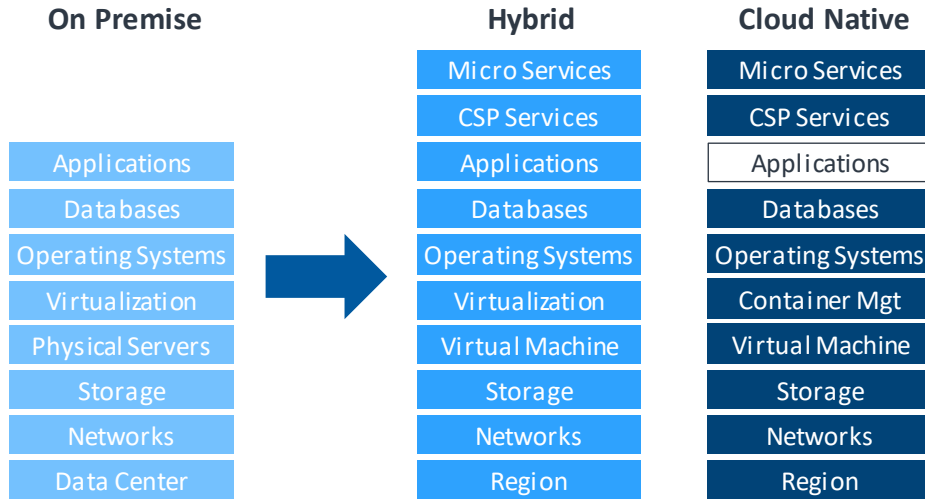CYBER**ARK**®

SAAS presents its own challenges

EVEN WITH STRONG AUTHENTICATION, CERTAIN CHALLENGES REMAIN

- Limited visibility

- Inconsistent/basic audit capabilities

- Controls can't impact workforce

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Diving Deeper into Cloud Access

New environmental complexity

On Premise	Hybrid	Cloud Native
	Micro Services	Micro Services
	CSP Services	CSP Services
Applications	Applications	Applications
Databases	Databases	Databases
Operating Systems	Operating Systems	Operating Systems
Virtualization	Virtualization	Container Mgt
Physical Servers	Virtual Machine	Virtual Machine
Storage	Storage	Storage
Networks	Networks	Networks
Data Center	Region	Region

Roles

salesforce · Windows Server

Outlook · JBoss by Red Hat · SAP
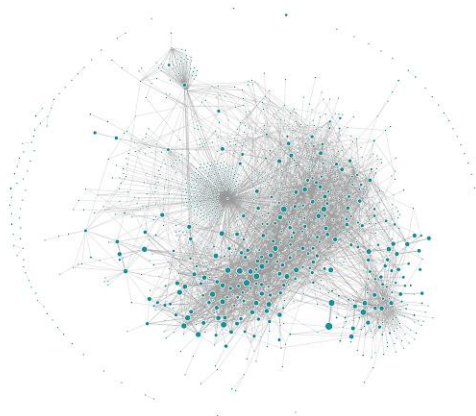
aws · Google Cloud · Azure

Users OR Admins   **Users ARE Admins**

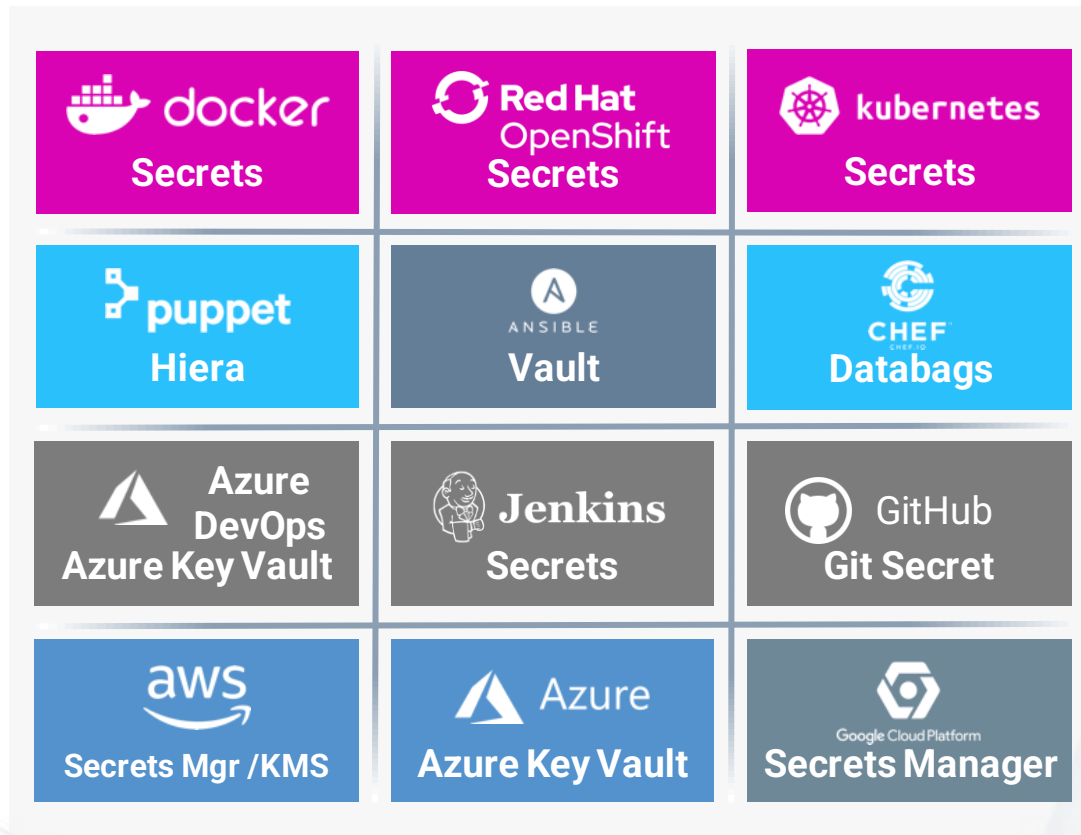## Things still break

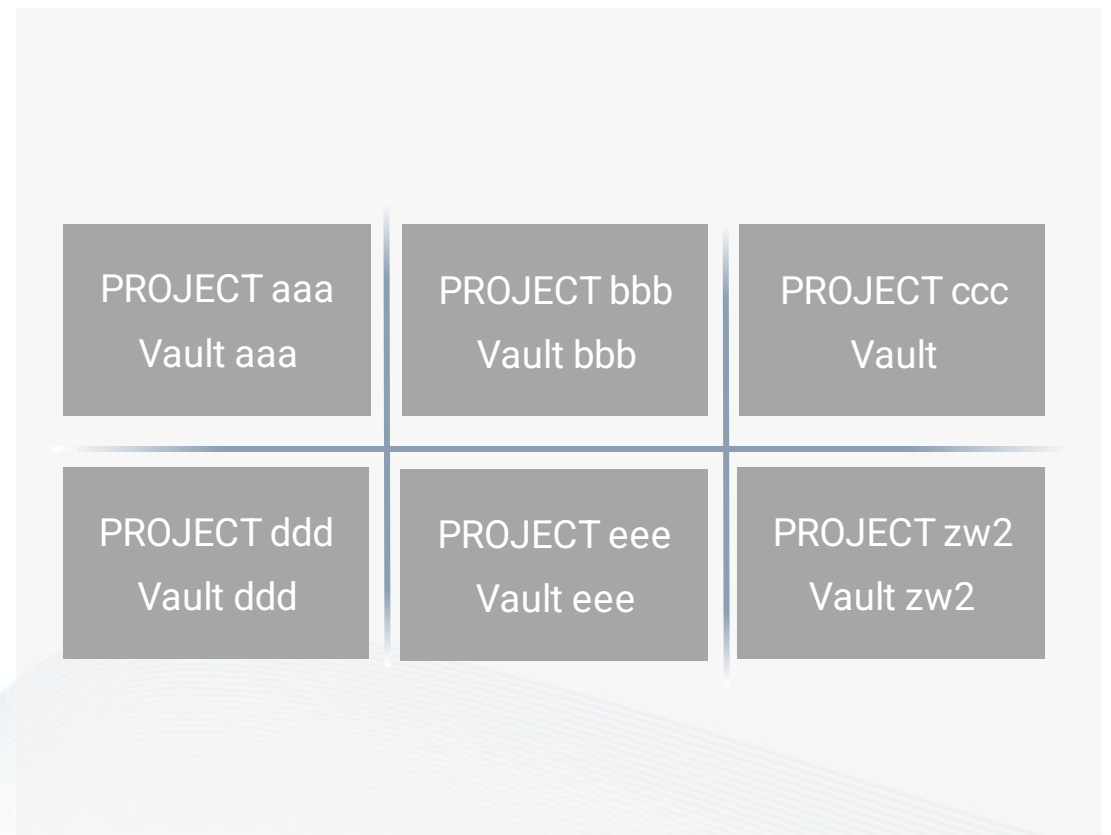"Quick, I need to fix something."

Everyone demands velocity

"I'm keeping the business agile and competitive... so move out of my way!"
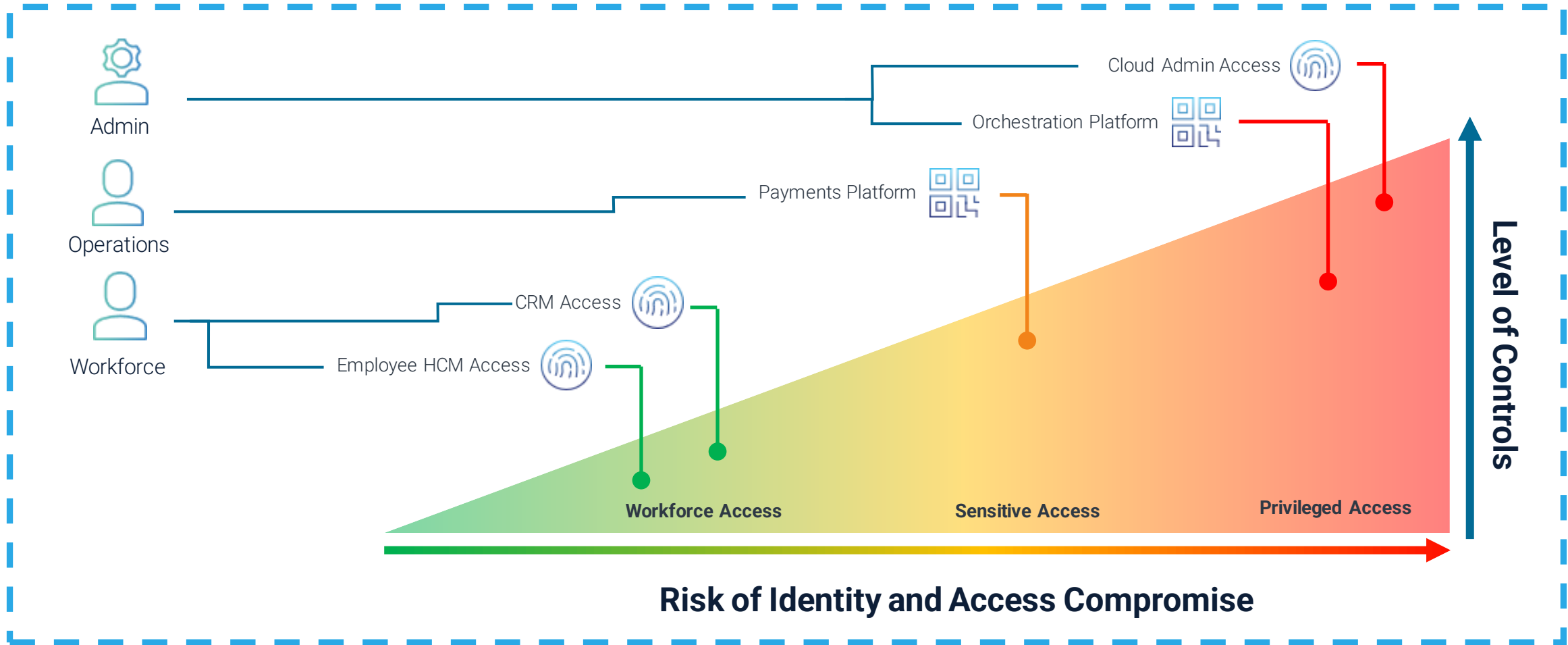
Automation = Secret & Vault Sprawl

Islands of Security: A secrets store for each tool

Vault Sprawl: A secrets store for every project

docker Secrets	**Red Hat OpenShift** Secrets	**kubernetes** Secrets
puppet Hiera	**ANSIBLE** Vault	**CHEF** Databags
Azure DevOps Azure Key Vault	**Jenkins** Secrets	GitHub Git Secret
aws Secrets Mgr /KMS	**Azure** Azure Key Vault	Google Cloud Platform Secrets Manager

PROJECT aaa Vault aaa	PROJECT bbb Vault bbb	PROJECT ccc Vault
PROJECT ddd Vault ddd	PROJECT eee Vault eee	PROJECT zw2 Vault zw2

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Risk-Based Approach to Securing Access

Admin

Operations

Workforce

Cloud Admin Access

Orchestration Platform

Payments Platform

CRM Access

Employee HCM Access

Workforce Access

Sensitive Access

Privileged Access

Level of Controls

Risk of Identity and Access Compromise

Lifecycle Management, Identity
Orchestration & User Behaviour Analysis

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Thank You!

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