# Extending Identity Protection Beyond the Perimeter

MFA, Securing High Risk Access and Service Account Promáši ji k

Regional Sales Manager

tomas.jilik@silverfort.com

Sales Engineer CEE

pawel.jakacki@silverfort.com

Identity security done right.



## Silverfort — The Identity Security Platform Company



2024 Microsoft Partner of the Year Award



Silverfort ranks 4.8 out of 5 stars



2025 Fast Company Most Innovative Companies List



Silverfort customers

Funding (Series D)

**Employees** around the world















Key Technology Partnerships

















servicenow









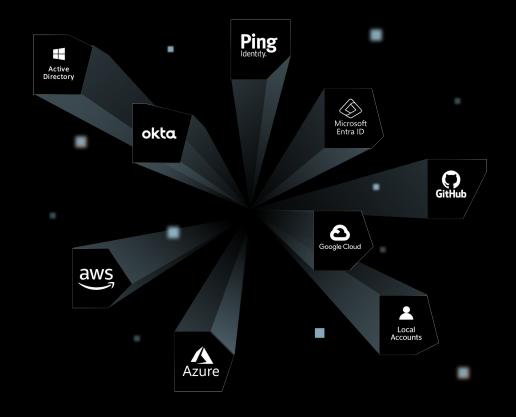






The IAM infrastructure in most companies is hybrid and fragmented.

As a result, identity security controls work in silos, with inconsistent visibility and enforcement, redundant costs, and bad user experience.



Current solutions also leave critical identity security blind spots.

### AD and Cloud identity security blind spots

Lack of visibility, bad configurations, vulnerable protocols, risky accounts, etc.

### Systems that don't support MFA

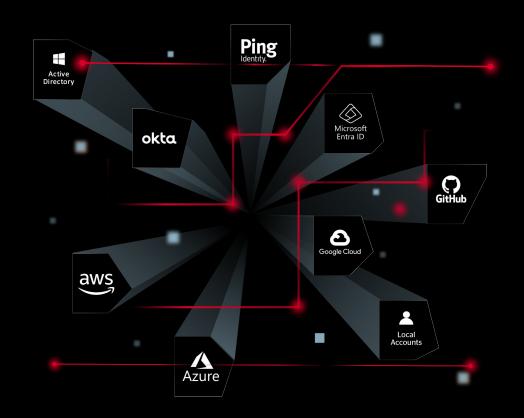
Legacy systems, command-line interfaces (e.g., PsExec), IT/OT infrastructure and more.

#### **Service accounts and other NHIs**

Very difficult to map them, understand where they are being used, and protect them at scale.

### Ineffective controls for privileged access

Traditional PAM is complex to implement and use, expensive, and easily bypassed by admins and attackers.





#### THE SILVERFORT IDENTITY SECURITY PLATFORM

# Secure every dimension of identity.

#### **Discover**

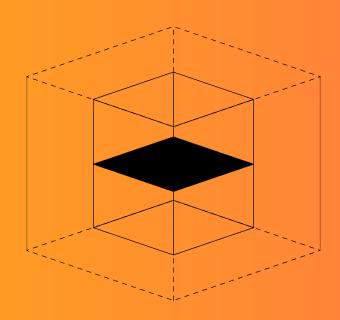
Every identity across every environment—from one platform.

### **Analyze**

All access attempts and uncover exposures and threats in real time.

#### **Enforce**

Security controls inline to prevent attacks and address compliance gaps, even on systems that couldn't be protected before.

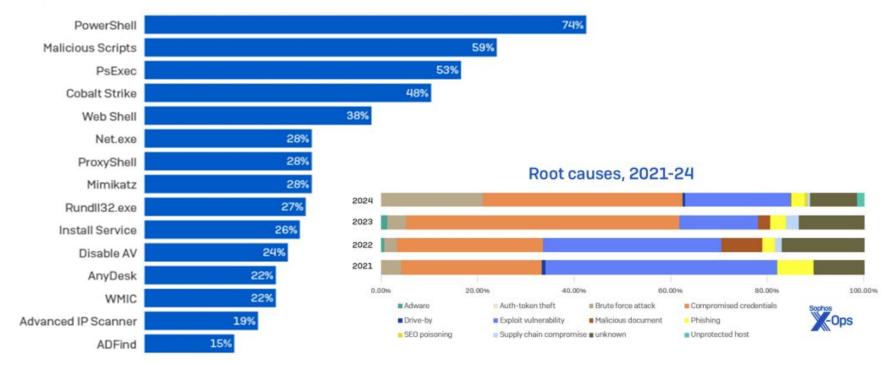


# PAWEL's PART...



## "Impossible to MFA" low level CLI interfaces are top attack vectors

## **Top Artifacts Used in Attacks**



\*Source: Sophos, The Adversary Playbook



90% of cyber incidents investigated involve Active Directory (AD) in one way or another\*

MFA reduces account compromise by 99.9%\*\*

**95%** of companies require MFA...**so what's the problem**? Most things against AD don't support MFA or have to do various integrations with agents and attackers know this.

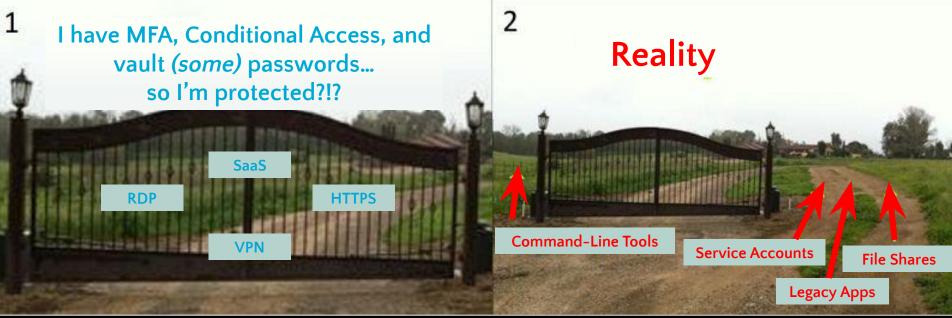
Source:

\* Mandiant

\*\* Microsoft

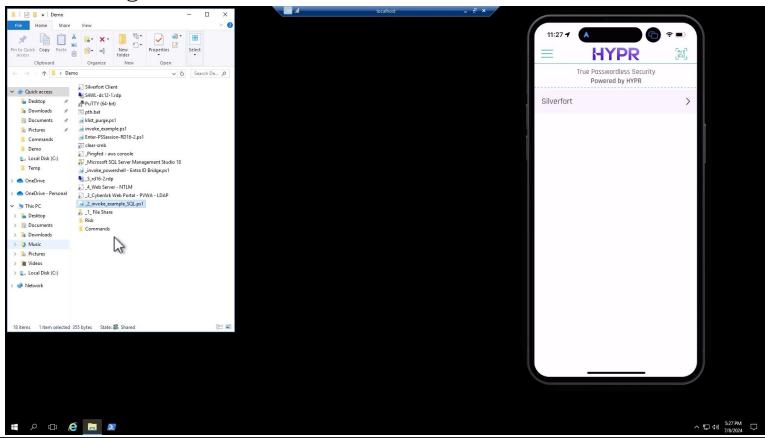


Attackers know about these gaps, these blind spots, and are leveraging them in over 80% of all data breaches to easily bypass the existing protection



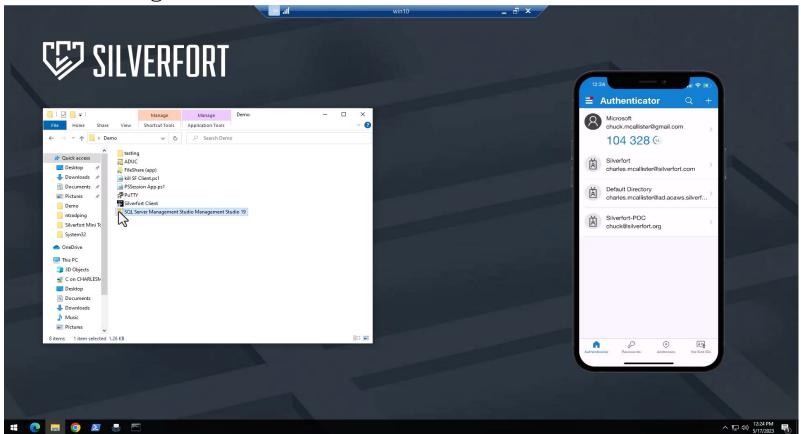


# DEMO: Extending MFA to PowerShell



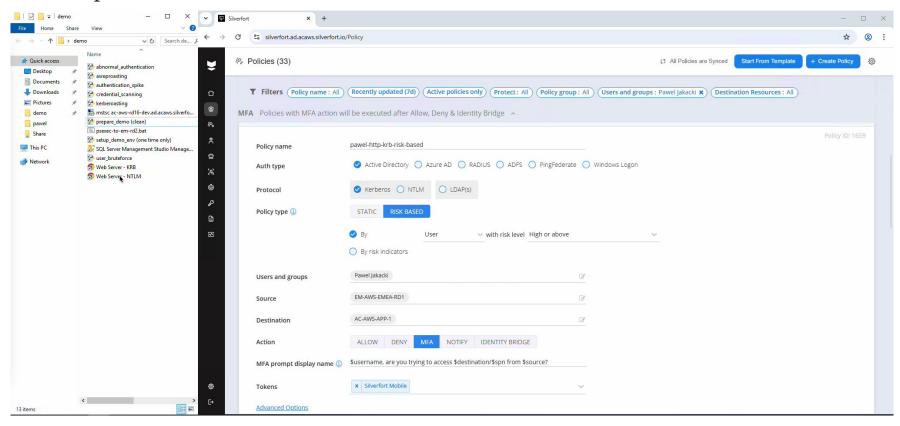


# DEMO: Extending MFA to SQL server

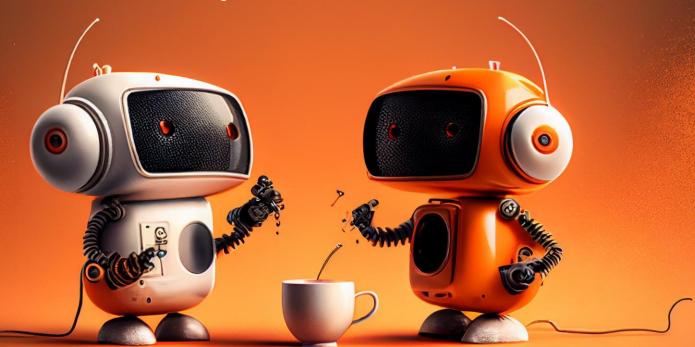




## How to prevent lateral movement with Risk Based Policies?



# What are service accounts, and why are they so difficult to secure?





## **Highly privileged:**

Can cause large damage when compromised

## **Unknown Dependencies:**

Most companies don't know all service accounts and where they are used

### **Difficult to Protect:**

Rotating their passwords often breaks applications

## **Regularly Misused:**

Service accounts are often used by admins outside of their intended purpose



## Other common issues and bad practicies









Using personal admin accounts to run applications and scripts, instead of creating a service account

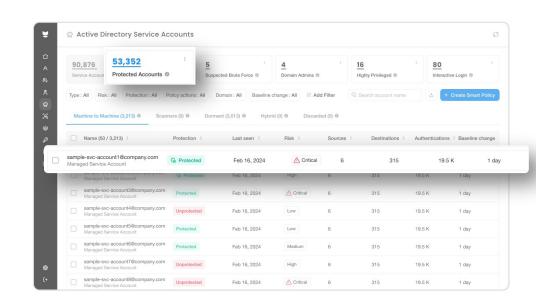
Admins using service accounts manually for their own needs, instead of asking for privileges

Reusing the same service account across many systems, and losing track of where it's being used Providing service accounts with high privileges even if they only need to do a specific task



# Silverfort's Service Accounts Security

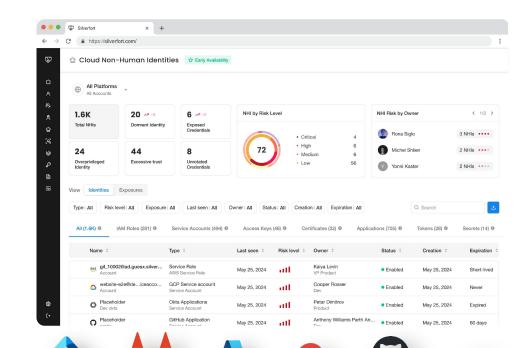
- Automatically discover all service accounts within your Active Directory
- Prioritize & categorize each service account based on its privileges and multiple other risk indicators
- Protect with 'Virtual Fencing' to restrict access solely to intended sources and destinations, significantly reducing the risk
- Automate this process to secure service accounts at scale using CMDB (e.g. ServiceNow) integration and Smart Policy functionality



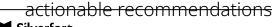


# Silverfort's Cloud NHI Security

- Discover and classify different types of Non-Human Identities across IdPs, cloud infrastructure and SaaS applications
- Gain visibility into effective privileges of your entire NHI inventory and reduce unnecessary permissions
- Prioritize and mitigate the most critical exposures to minimize your attack surface and address compliance gaps
- Remediate security & lifecycle gaps by identifying account ownership and



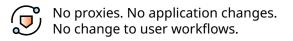
aws





# How it works: Runtime Access Protection (RAP)

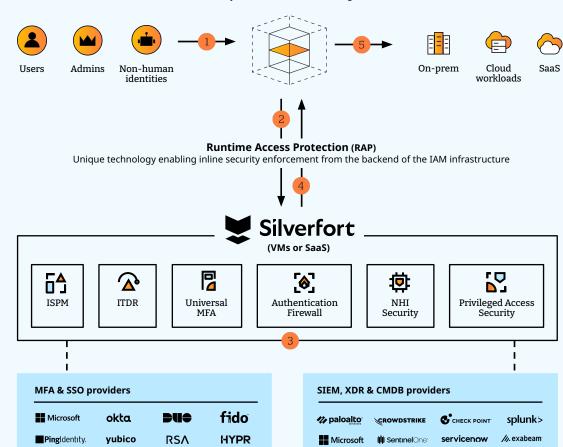
- User requests access from the IAM infrastructure
- IAM infrastructure forwards request to Silverfort using patented RAP technology
- 3 Silverfort analyzes risk and triggers inline security controls if needed
- Silverfort returns security verdict to IAM infrastructure
- IAM infrastructure grants or denies access





#### IAM infrastructure

(Active Directory, ADFS, Entra ID, Okta, Ping, RADIUS, etc.)



Discover exposures, analyze threats and enforce security controls in real time with Runtime Access Protection (RAP).

#### ISPM

Uncover, map and analyze identity security exposures

#### ITDR

Detect and respond to attacks in real time

#### Universal MFA

Extend Multi-Factor Authentication to any system

#### Authentication Firewall

Stop unauthorized access with Zero Trust policies

#### NHI Security

Discover and protect non-human identities

#### Privileged Access Security

Identify then enforce least privilege & Just-in-Time access

