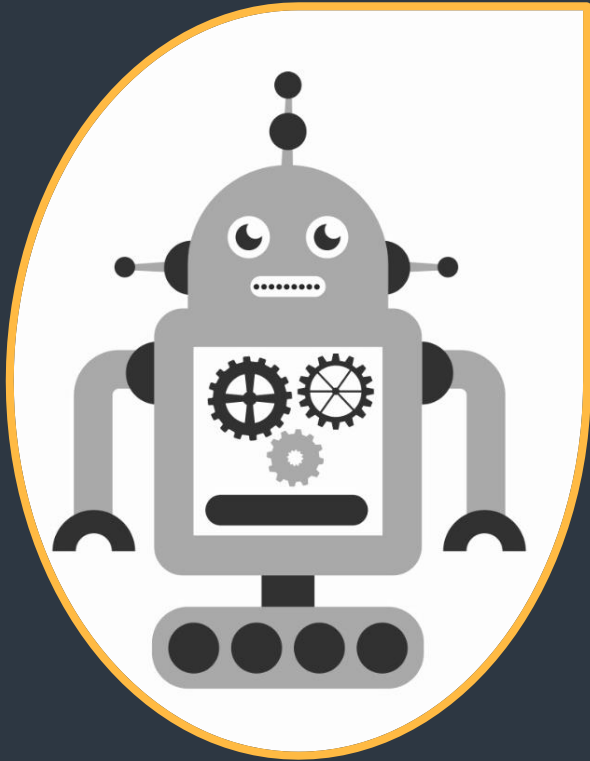


# Protecting Service Accounts Luxury or Critical Necessity?



Dr. Shahriar Daneshjoo, VP Central EMEA  
Vienna, 09. October 2024

# What are Service Accounts?



- ❖ Non-human account,
- ❖ Communication and interaction between systems, or services,
- ❖ Representing the identity and authorization of an application or service.

# The Service Account Blind Spot

- ❖ Non-human identities are especially **difficult to protect**
- ❖ Password rotation (PAM) at scale **takes years & causes operational disruptions**



## Highly privileged

Can cause large damage when compromised



## Unknown Dependencies

Companies don't know all service accounts



## Difficult to Protect

Rotating their passwords often breaks applications



## Regularly Abused

Often used outside of their intended purpose

**Service Accounts are highly vulnerable and targeted by attackers**

**“We are 2 years into our PAM and password rotation journey, and only 10% deployed”**  
– CISO, large US-based insurance company

# The Necessity of Service Account Protection

78% of organizations are not confident in their ability to block malicious access carried out with a compromised service account

Only 5.7% of organizations believe that they have full visibility into service accounts in their environment

“**Osterman Research**, The State of the Identity Attack Surface 2023”

„Machine accounts are a significant source of risk (well, many of us knew that...), **AND**: machine accounts are a significant vector for breaches, TODAY.“

„.....I hope this will open more eyes to the importance of machine IAM and increase the priority and urgency of it“.

“**Gartner**, Felix Gaehtgens, Vice President, Analyst, IAM, August 2024 ”

According to Silverfort’s research data, compromised service accounts were involved in over 70% of the attack attempts that we have prevented or investigated in our customers’ environments

# Examples of Data Breaches

solarwinds 

(2020)

In the SunBurst attack, the **Solarwinds service accounts** was used for **moving laterally** and compromising additional systems on-prem and in the cloud

Uber

(2022)

Attackers found a **script** that contained the credentials of a privileged service account, which **allowed them to breach the PAM vault**

okta

(2023)

Breaching the customer support system was done with a **service account**, that **was mistakenly saved to an employee's personal Google account**

# What Next?

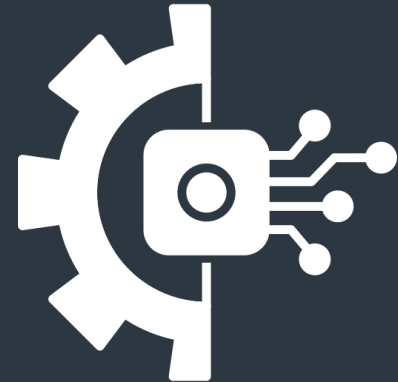
## 1. Discover



## 2. Protect

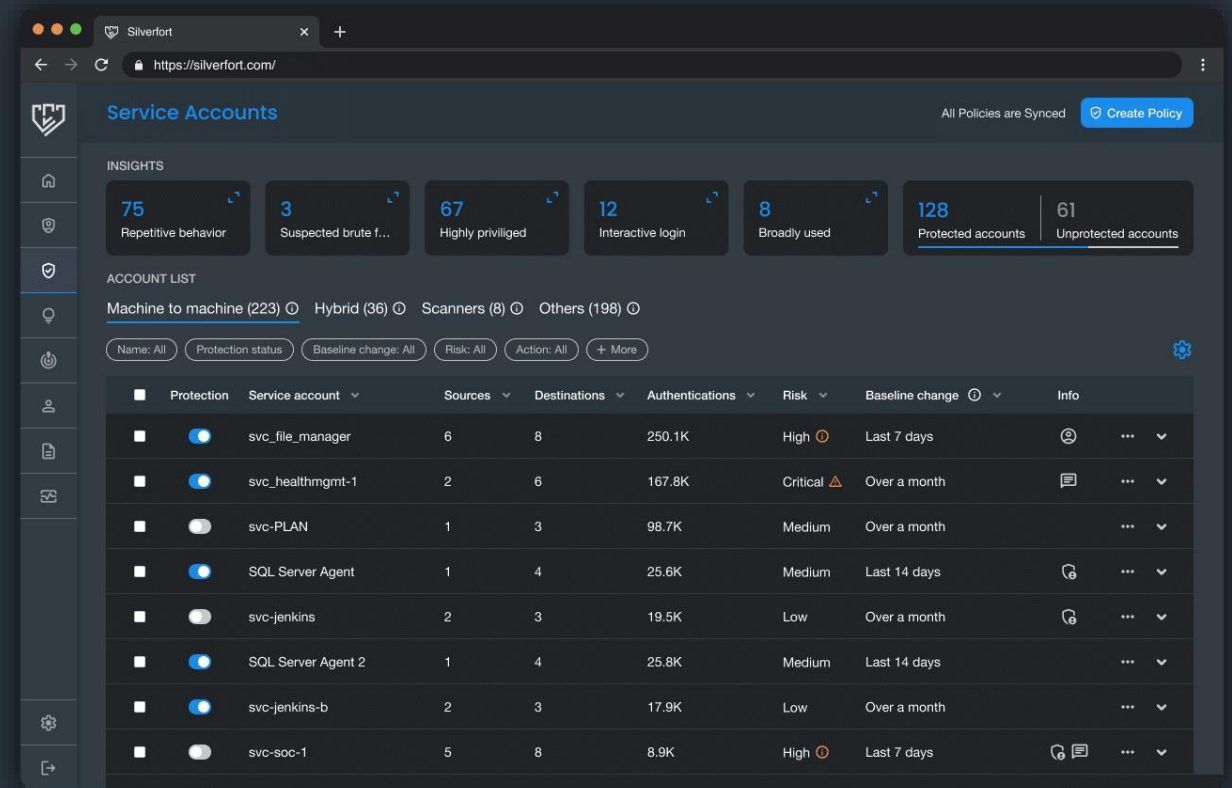


## 3. Automate

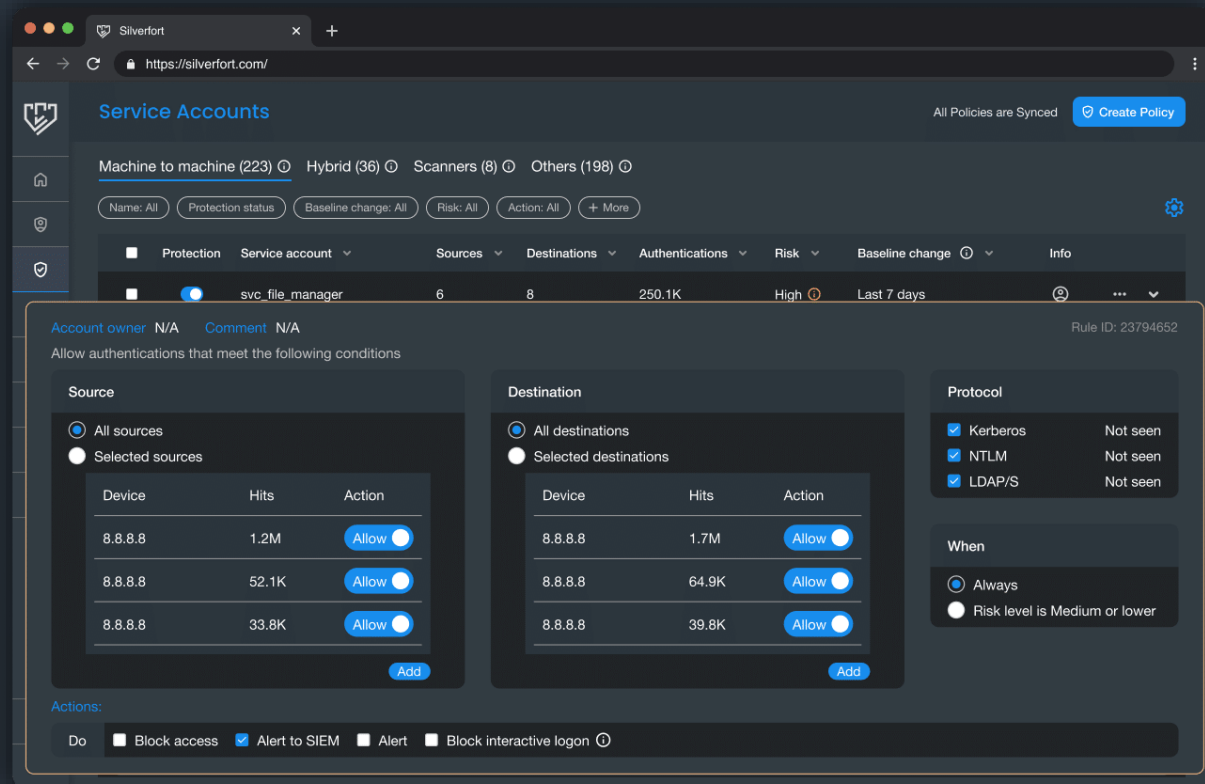


# Discover

- Group memberships
- Naming conventions
- Behavior-based discovery (ML)



# Protect

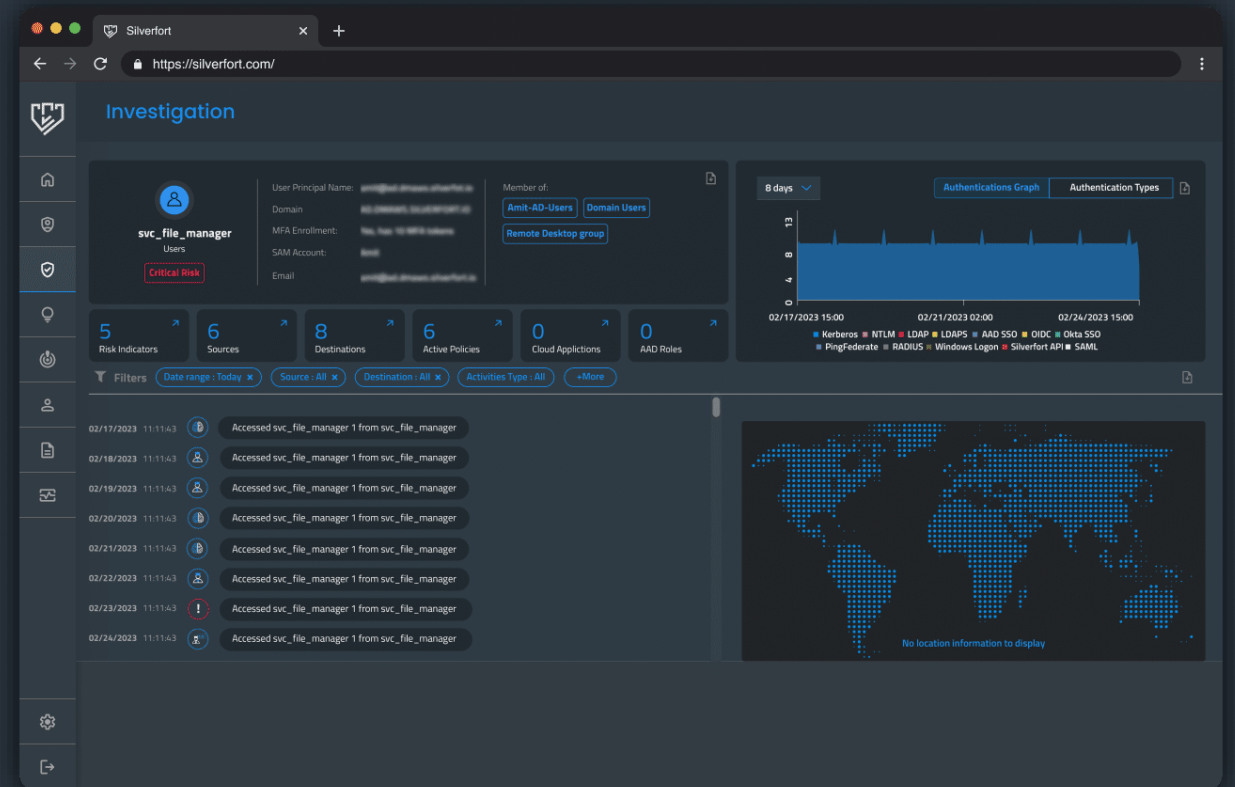


- learn the **access pattern**
- Enforce 'virtual fencing'
- Use **real-time enforcement**
- **Block** and/or alert on unauthorized access
- **Notify** application owners



# Automate

- Option 1: **Smart policies** that move each account automatically
- Option 2: **Integration with the CMDB** and other IT tools  
New service accounts should be
- Protected from day 1, as **part of their creation process**





**Thank You**

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