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Revealing Critical Security Gaps in Active Directory and Entra ID Environments

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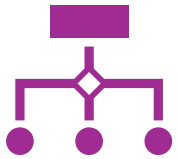
About Sean

- Identity Security Architect @ TrustedSec
- Microsoft Certified Master (MCM) Directory Services
- Speaker: Black Hat, Blue Hat, Blue Team Con, multiple BSides, DEF CON, DerbyCon, RSA, TEC, Troopers, etc.
- Former Microsoft MVP
- Security Consultant / Researcher
- Own & Operate ADSecurity.org (Microsoft identity security info)

PyroTek.io/About

Agenda



Gap #1: Active Directory

Gap #2: Hybrid Cloud Security Gaps

Gap #3: AD & Entra Control Plane

Wrap-up & Conclusion

Quest

Gap #1: Active Directory

Permissions

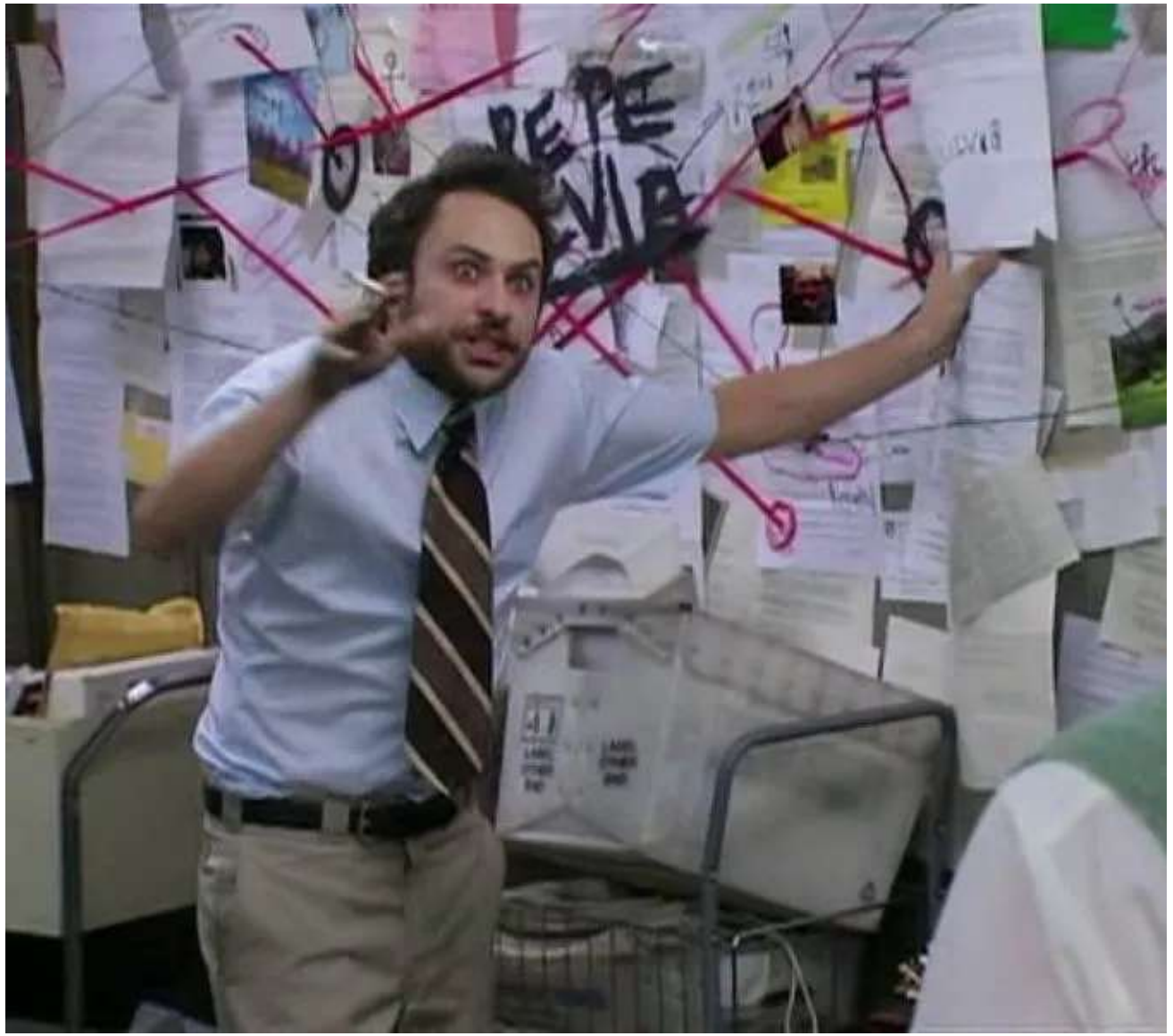
Group nesting

Over-privileged accounts

Service account access

Backup process

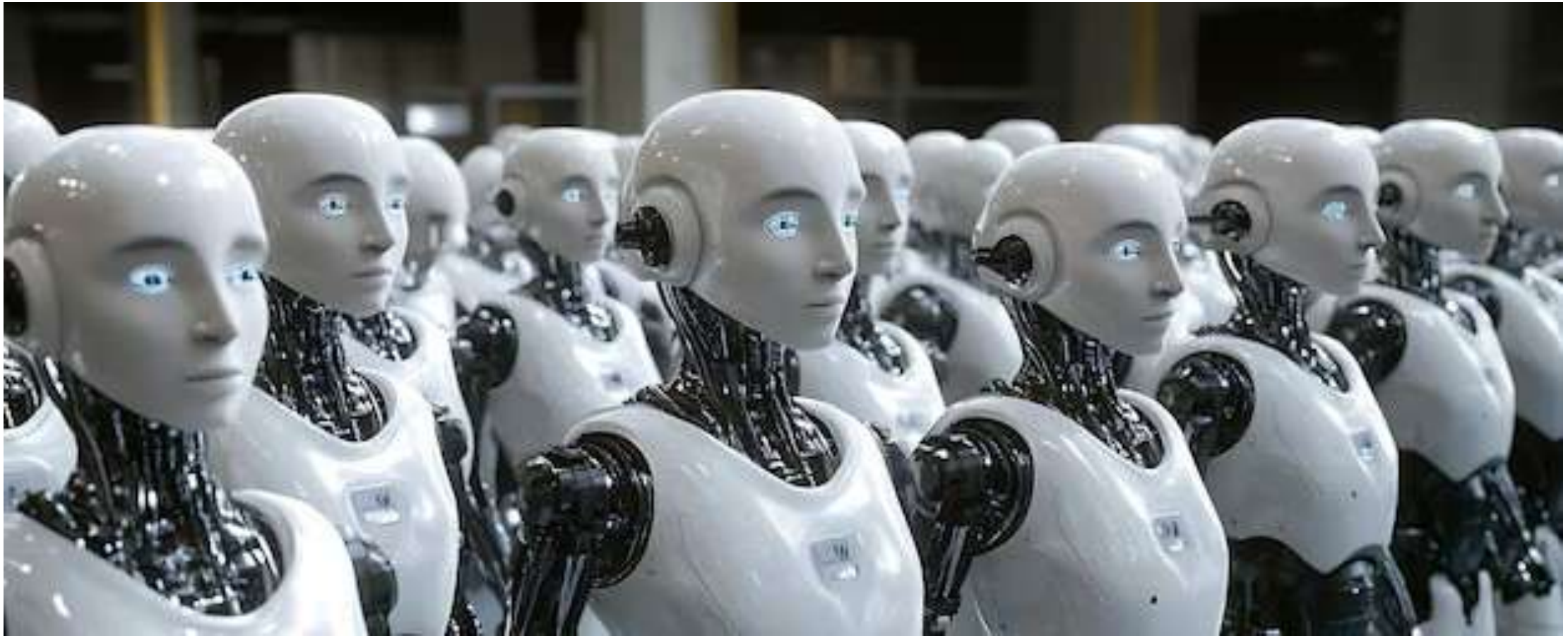
Permissions



Group Nesting

Over-permissioned Accounts

Service Account Access



How often to you practice your disaster recovery plan?

Backup Process

Gap #2: Hybrid Cloud Security Gaps

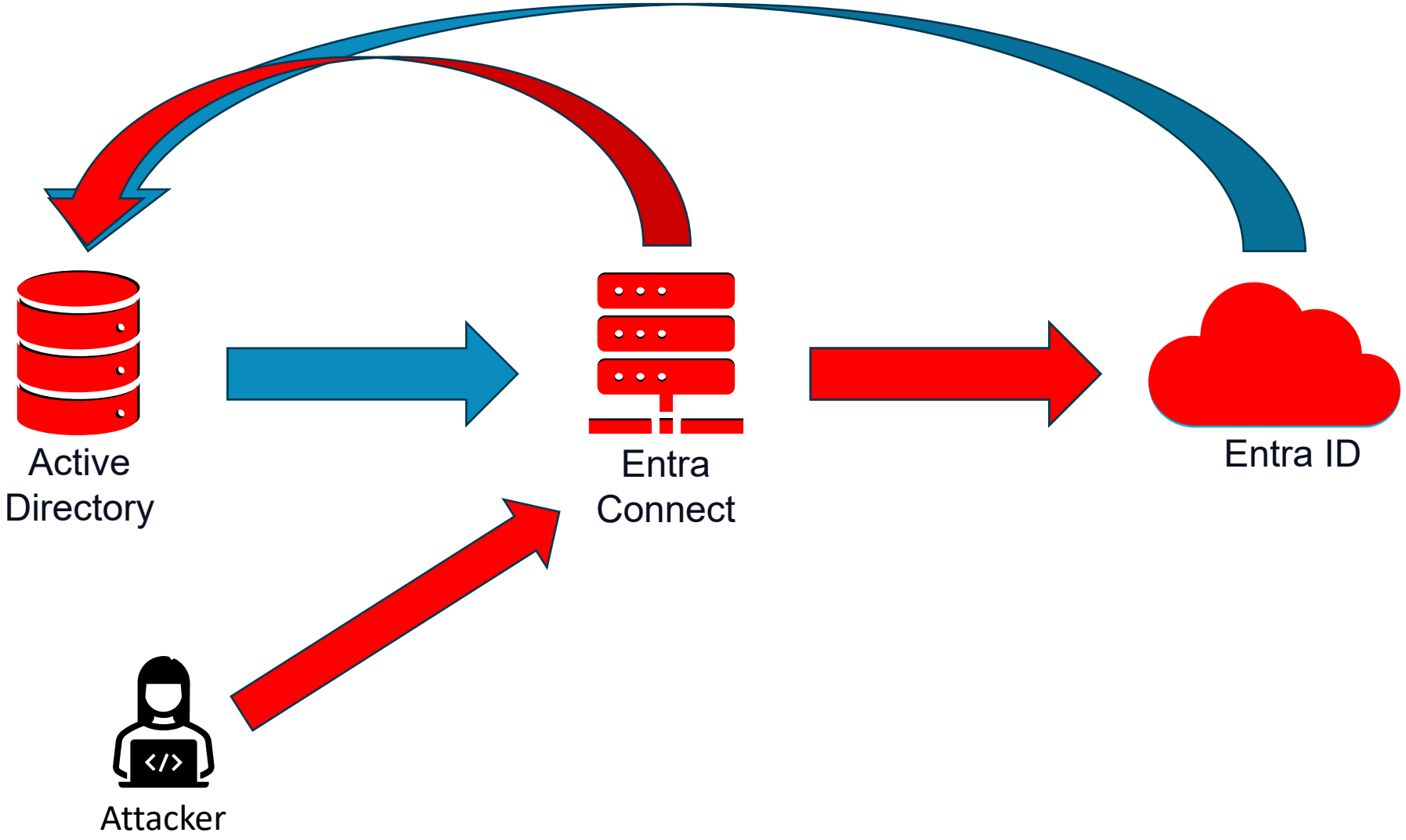
Entra Connect

Pass Through Authentication

Entra Seamless Single Sign-on

Which areas of your identity infrastructure are most difficult to secure?

Entra Connect Sync



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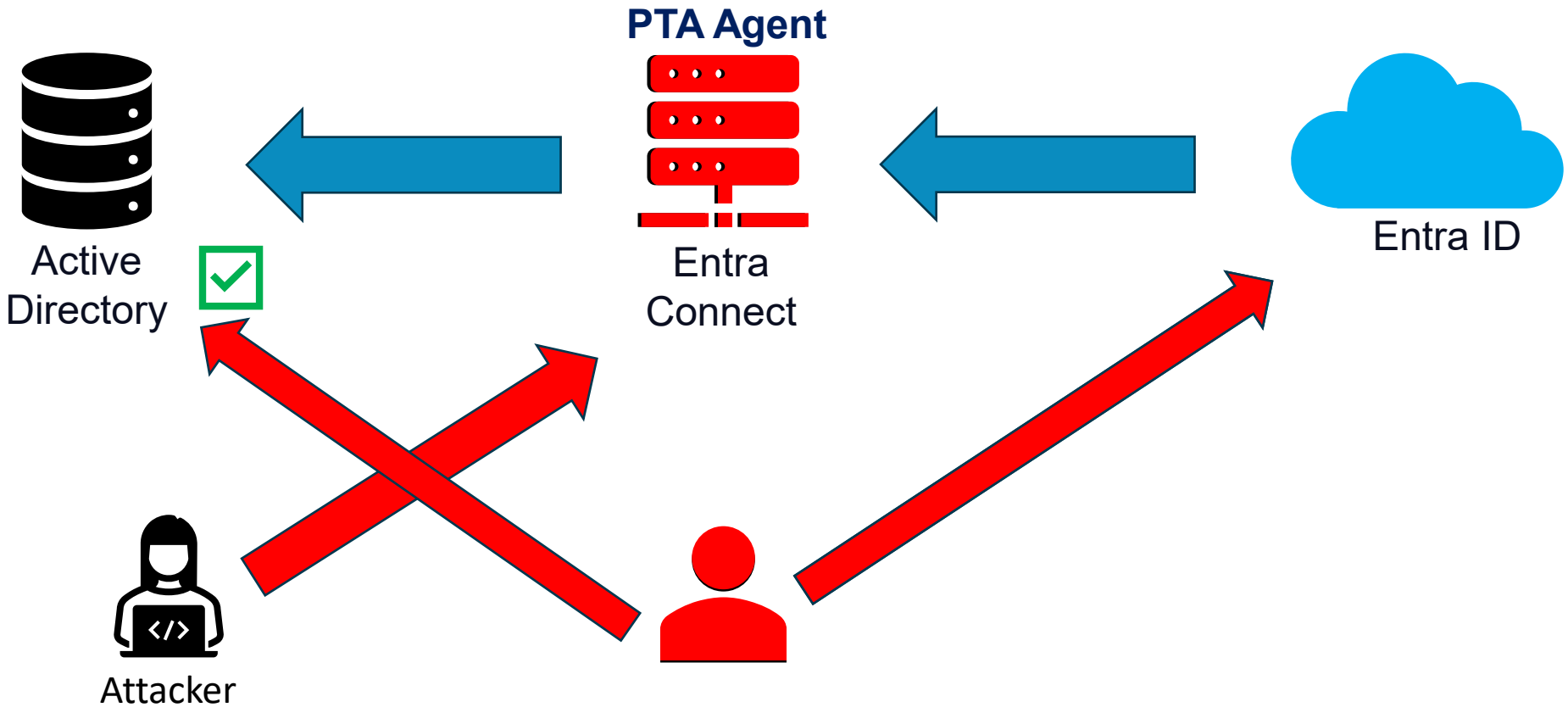
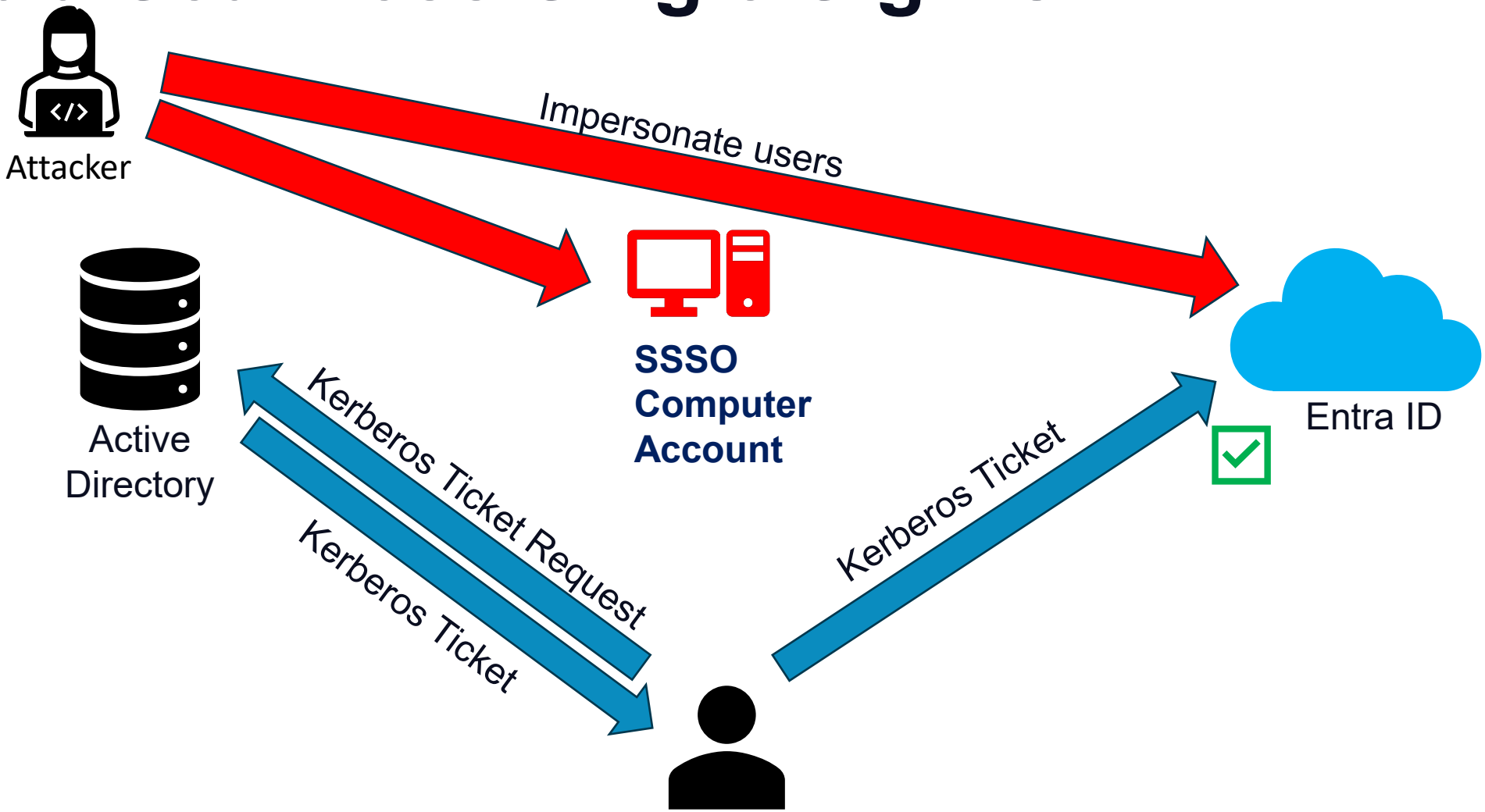
Pass Through Authentication



Entra Seamless Single Sign-On

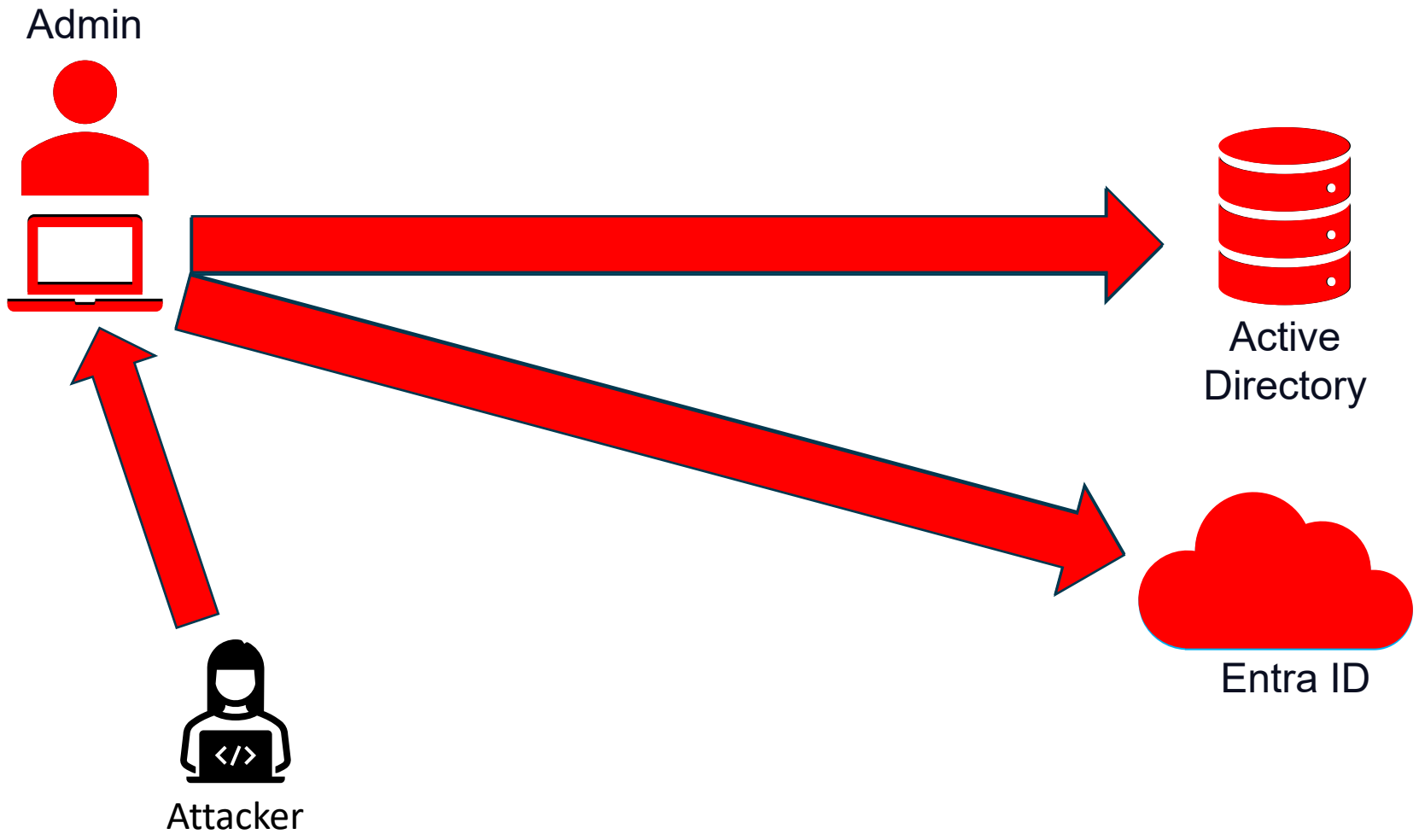


Who in your org is primarily responsible for ITDR?

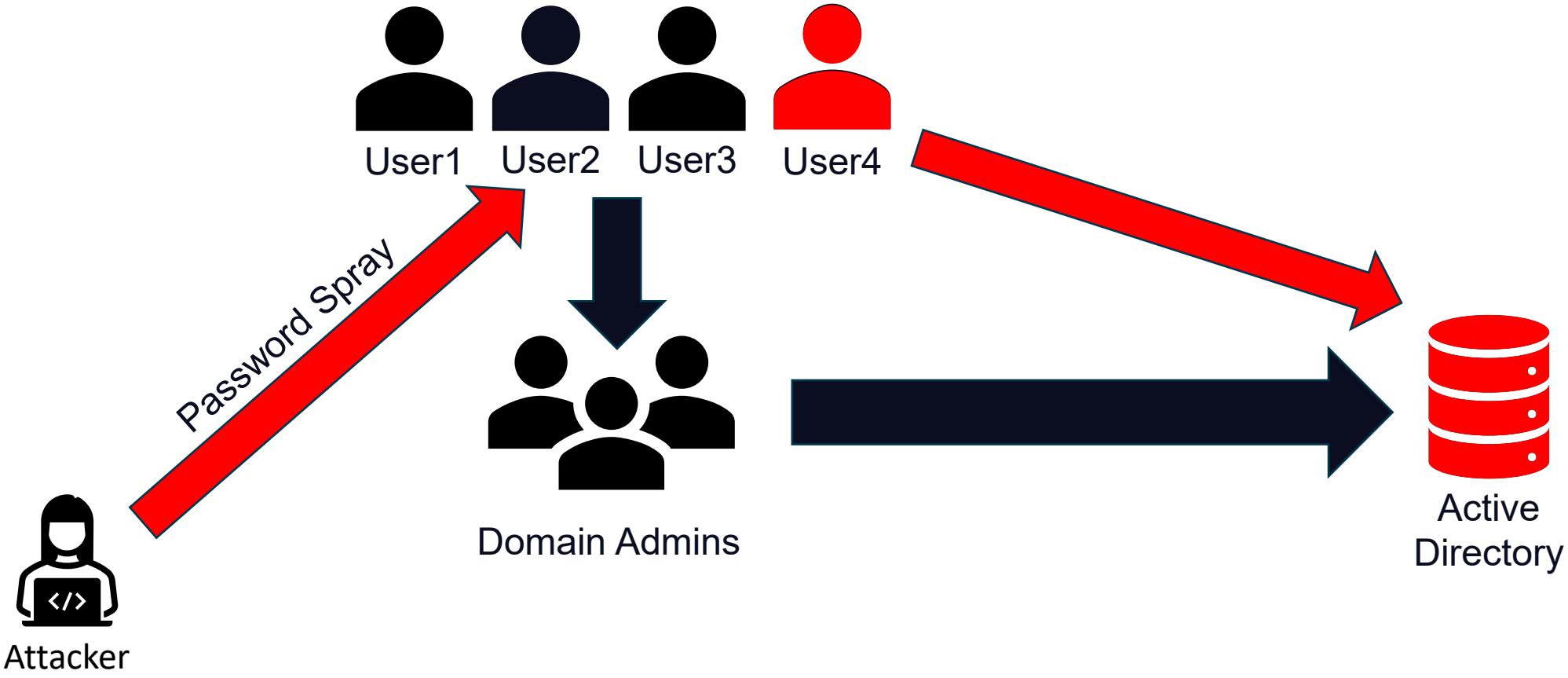
Gap #3: AD & Entra ID Control Plane

- No admin workstations
- Too many admins
- Not requiring MFA
- Overprivileged service accounts

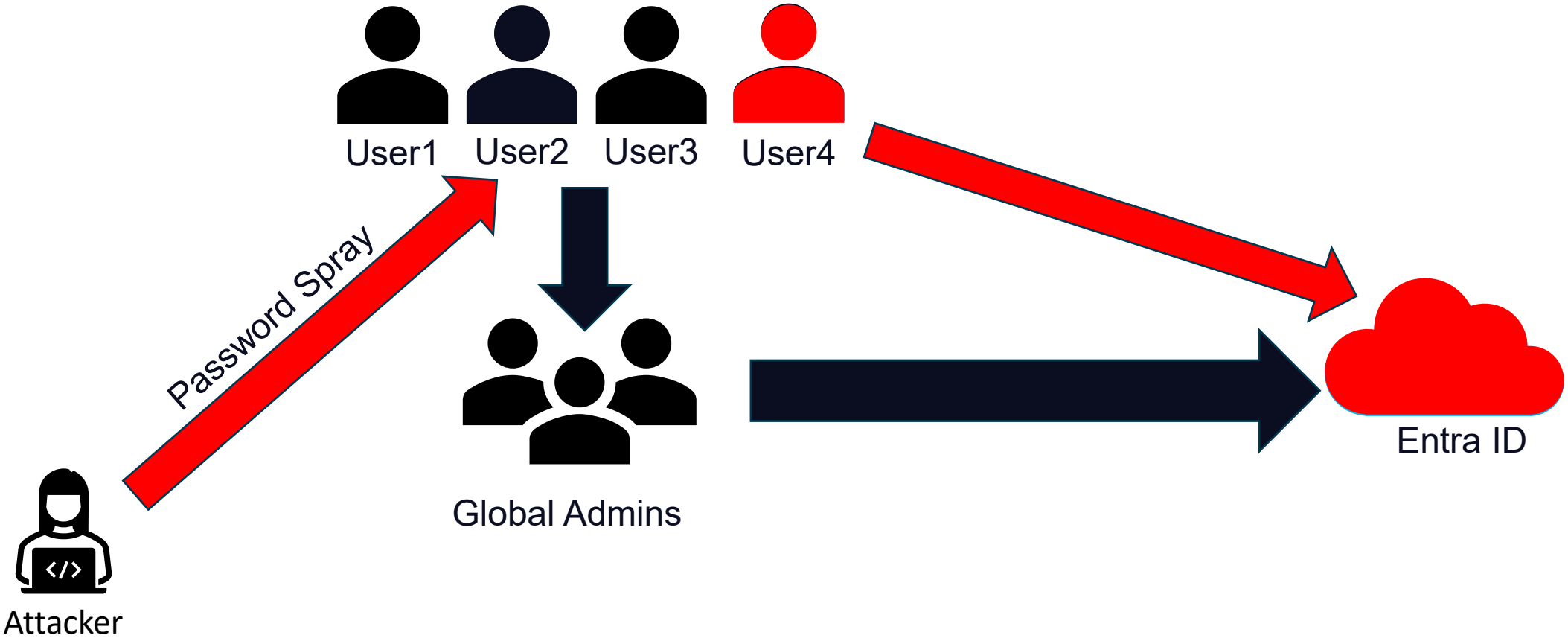
No Admin Workstations



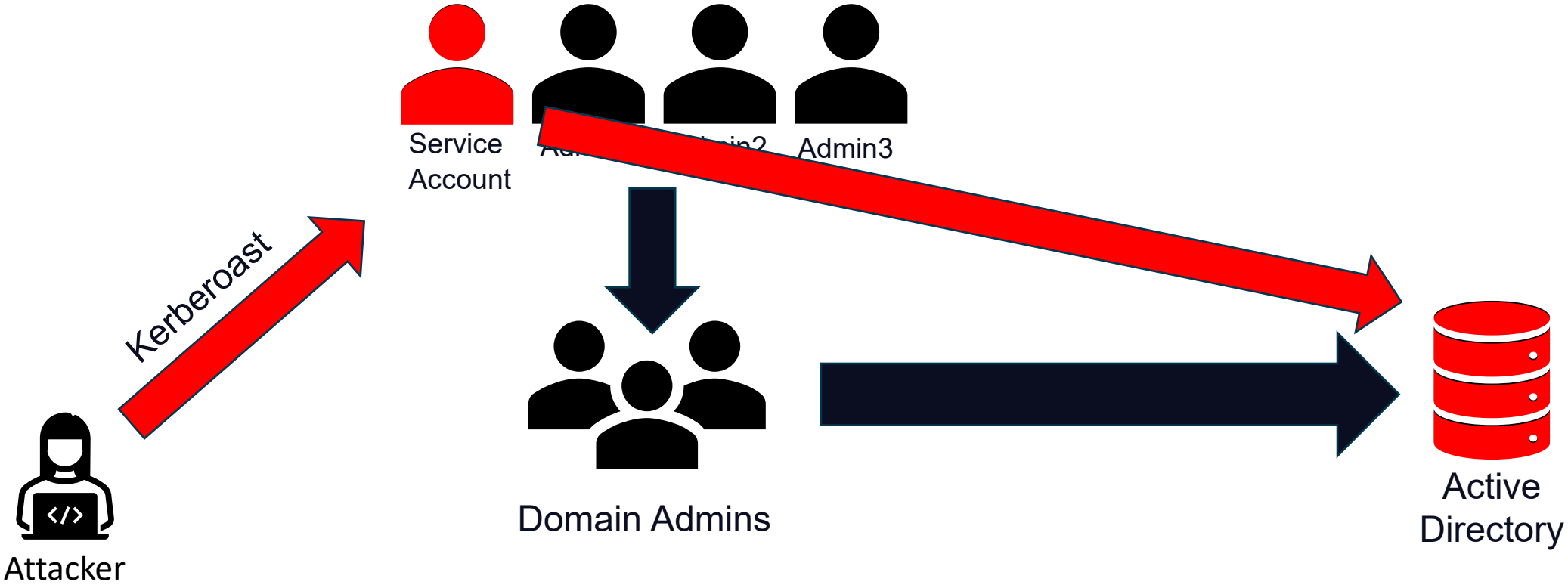
Too Many Admins



Not Requiring MFA



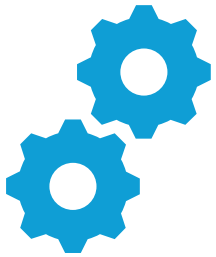
Overprivileged Service Accounts



AI Challenges

AI is being integrated into everything

Legacy technology isn’t prepared for it



AI governance is required and hard

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Wrapping Up

CLEANING UP ACTIVE DIRECTORY MAKES IT MORE RESILIENT

HYBRID CLOUD PROVIDES ATTACKER OPPORTUNITY

PROTECTING PRIVILEGED ACCOUNTS MITIGATES ATTACKS

Visit booth #205

Quest

Q&A with Sean Metcalf and Bryan Patton
Today's Raffle: 5:15 pm
Happy Hour @ Crush It: 6:30-9:30pm