

Sam Elliott

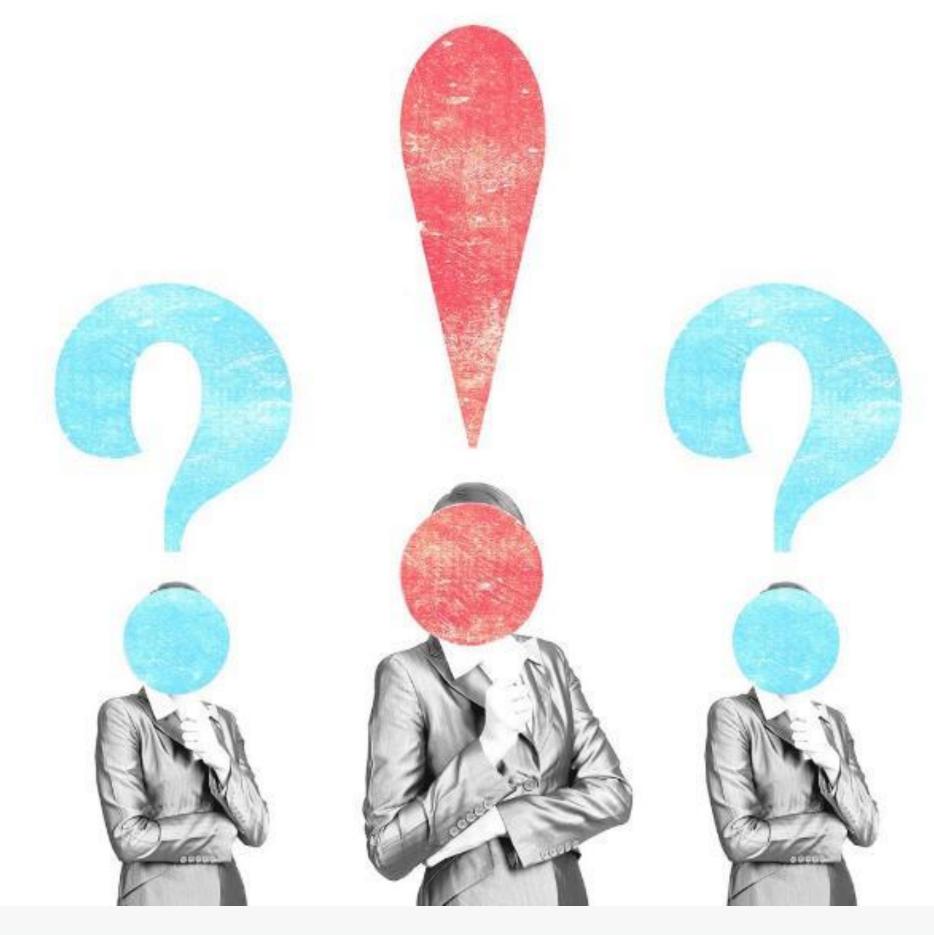
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A breach is a matter of if, not when

Goal should be to contain breaches to a level of acceptable loss

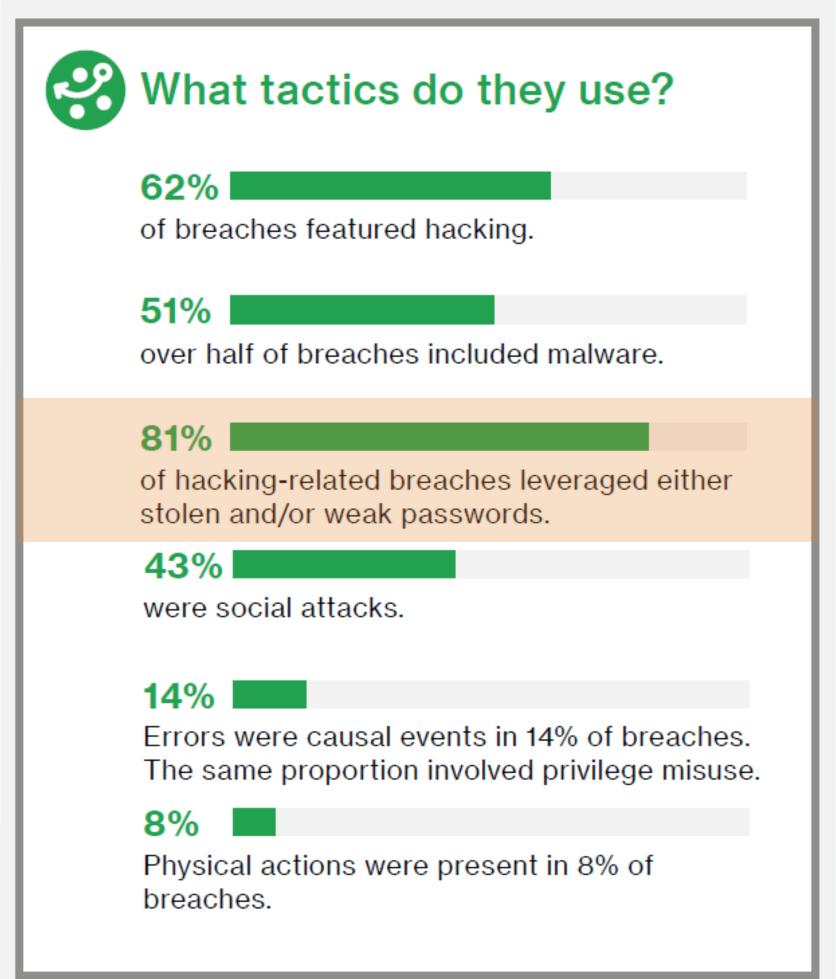
Automating privileged identity & access management can help mitigate threats





81% OF HACKING-RELATED BREACHES LEVERAGE STOLEN AND/OR WEAK PASSWORDS

- Privileged credentials are highly targeted "keys to the kingdom".
- Passwords and privileges are often long-lived and never changed.
- Admin passwords are often shared across teams.

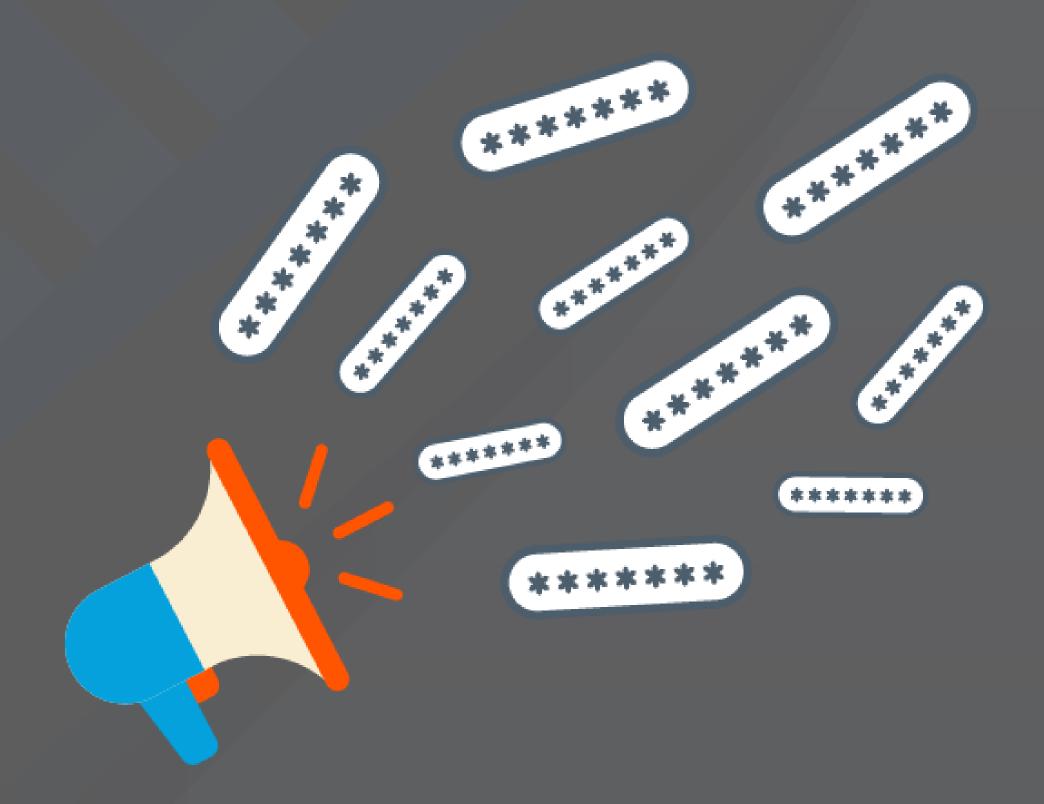






MORE AND MORE PEOPLE AND SYSTEMS ARE GAINING PRIVILEGES

- Privileges are easy to give, but difficult to retract.
- Failure to secure credentials used by non-standard users: service desks, service accounts, app to app, thirdparty vendors, etc.
- Limited visibility into all privileged accounts across an enterprise.





EVERYTHING-CONNECTED NETWORKS ARE CREATING EASY ENTRY POINTS FOR ATTACKERS

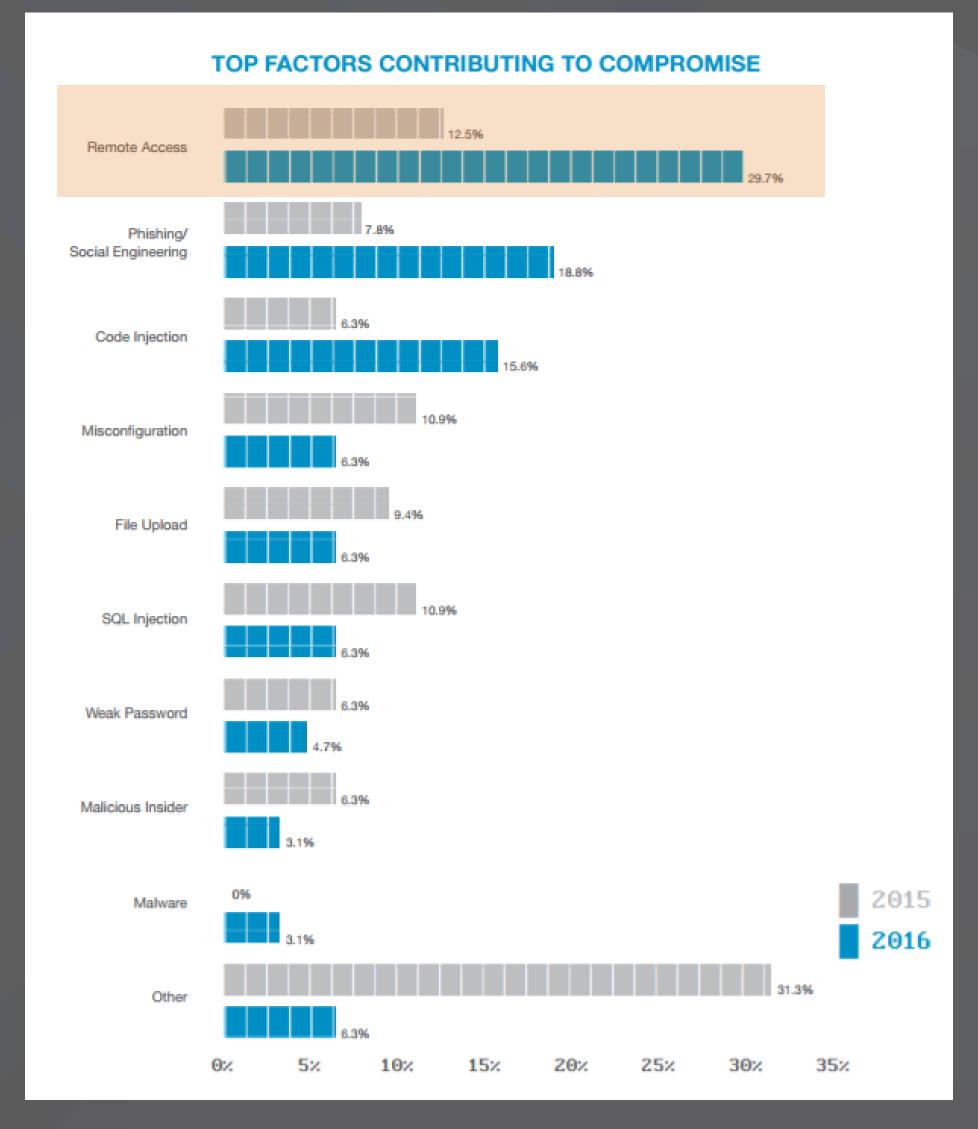
- Gartner forecasts that the number of connected things in use worldwide will reach 20.4 billion by 2020.
- Interconnected networks and IoT are widening the attack surface for our privileged systems and data.
- Making it easier for lateral movement.





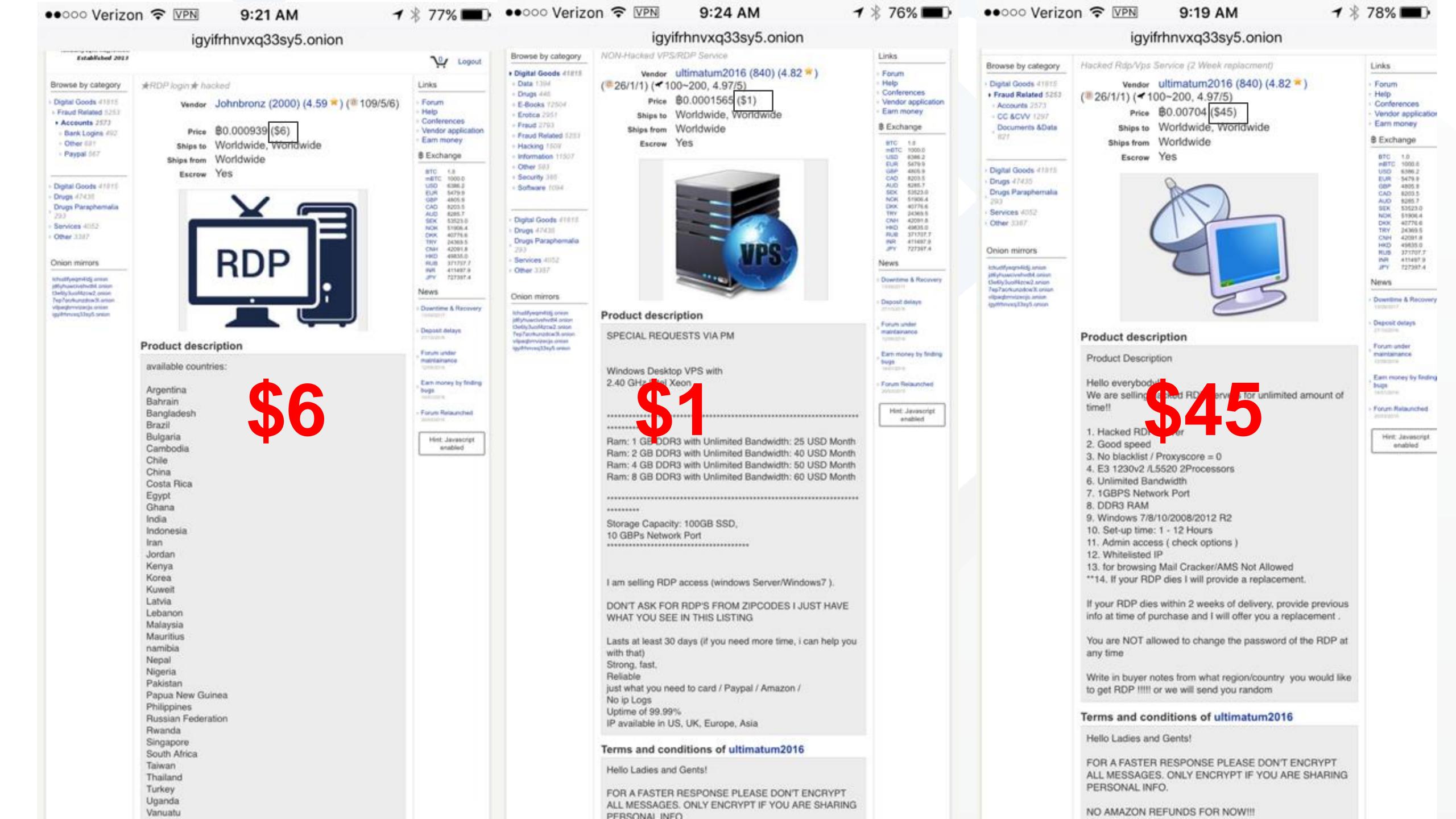
REMOTE ACCESS IS #1 METHOD OF COMPROMISE

- Extremely easy for threat actors to find unsecured remote access pathways.
- Most security organizations don't have visibility into all of the remote access pathways into their networks.
- Different teams & external vendors using their preferred tools.
- No centralized monitoring or auditing.

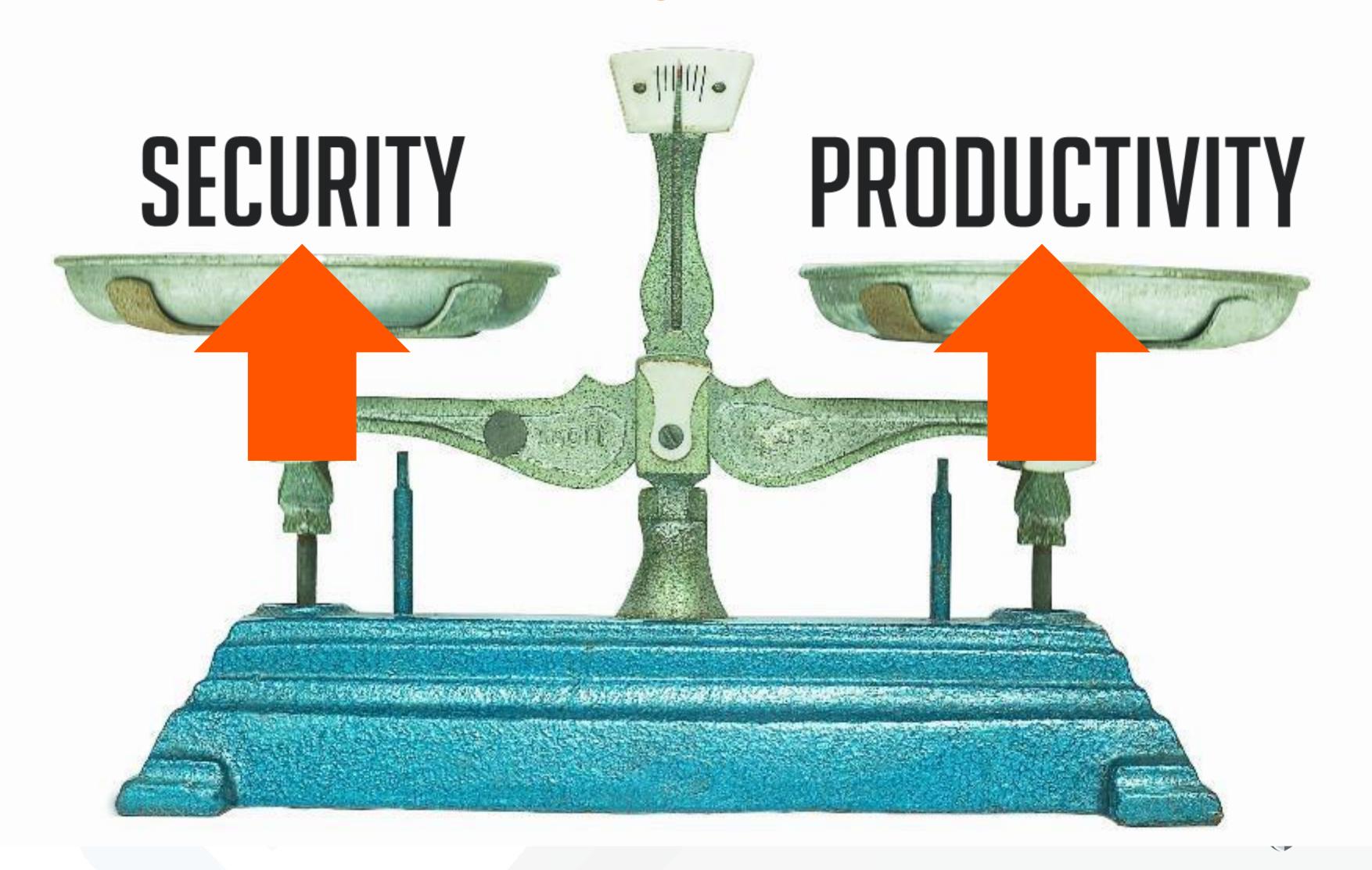








Use Automation and Technology to make Least Privilege Productive





6 STEPS TO SECURE ACCESS



Secure the CONNECTION

Defend the CREDENTIAL



SECURE VENDOR ACCESS





SECURE INSIDER
ACCESS





DISCOVER & SAFELY STORE PASSWORDS





ROTATE & RANDOMIZE
PRIVILEGED
CREDENTIALS





PROTECT SERVICE
ACCOUNTS



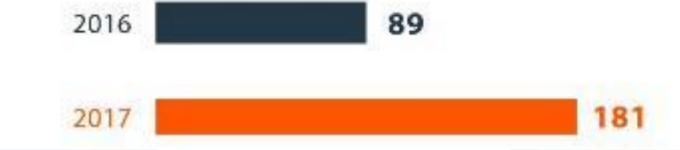


FORTIFY APP TO APP SECURITY

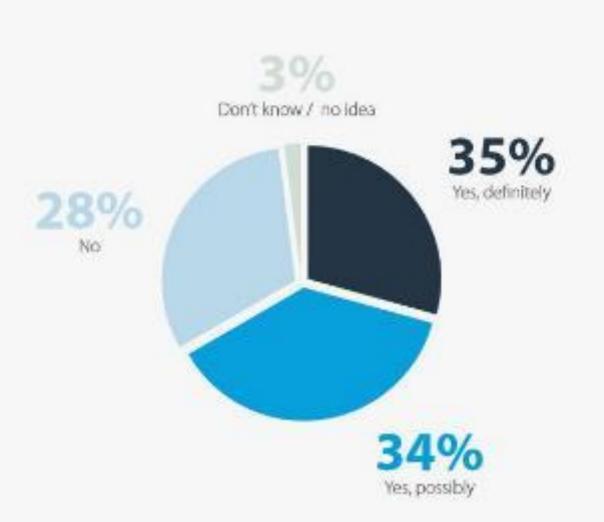
1. SECURE VENDOR ACCESS

- External vendors are "low hanging fruit" because they have to adhere to your policies.
- Number of third-parties connecting to company networks is rapidly increasing.
- Eliminate VPNs for vendors to improve security and access management.

VENDORS ACCESSING A COMPANY'S NETWORK EVERY WEEK





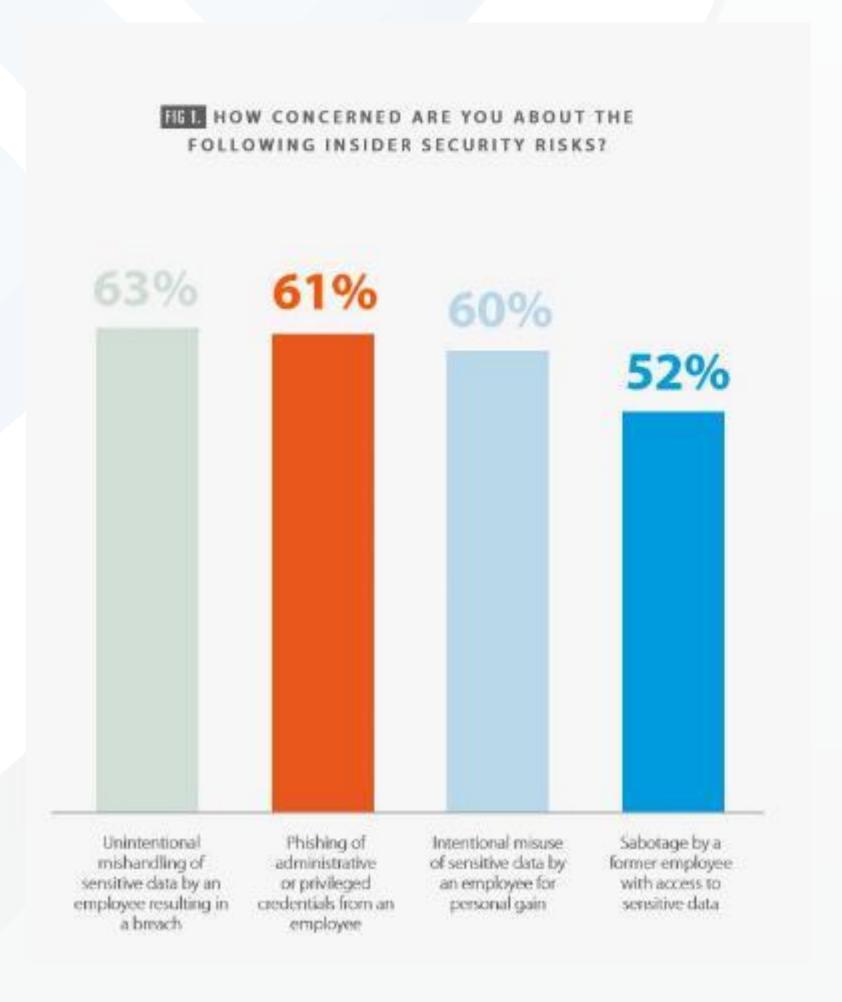


BOMGAR 2017 Secure Access Threat Report



2. SECURE INSIDER ACCESS

- Any employee who has privileged access:
 - IT Admins
 - IT Operations
 - Operational Technologists
 - Service Desks
- Only 41% of security professionals trust employees with privilege access completely

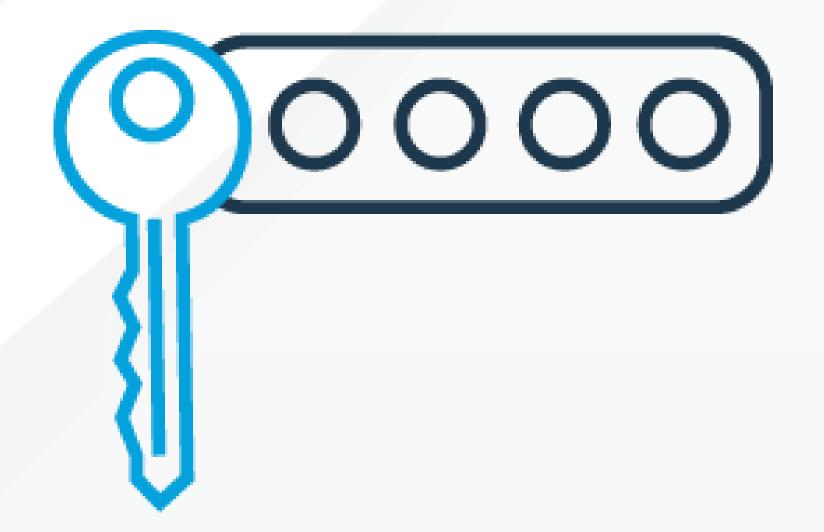


BOMGAR 2017 Secure Access Threat Report

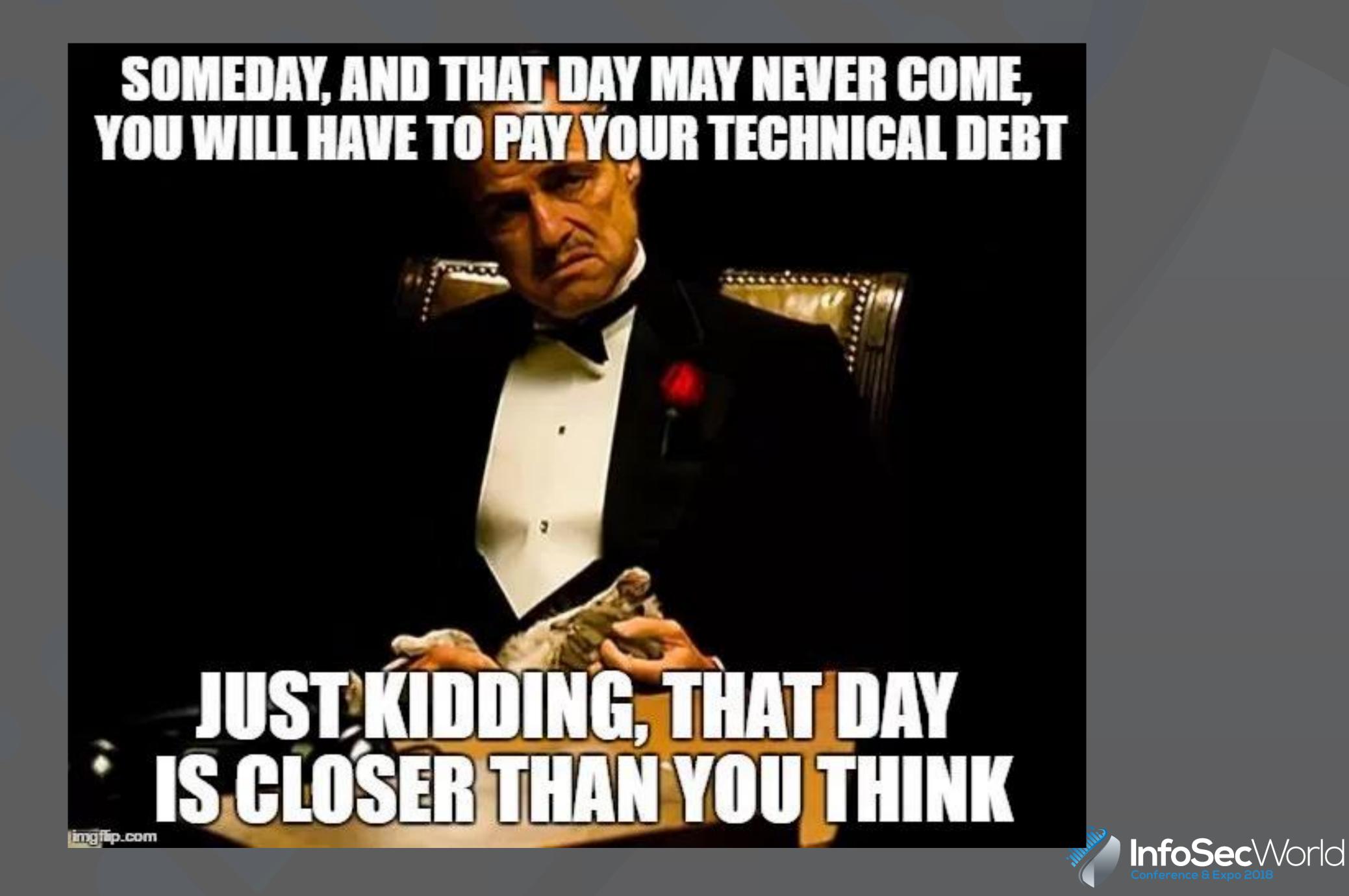


3. DISCOVER AND SAFELY STORE PASSWORDS

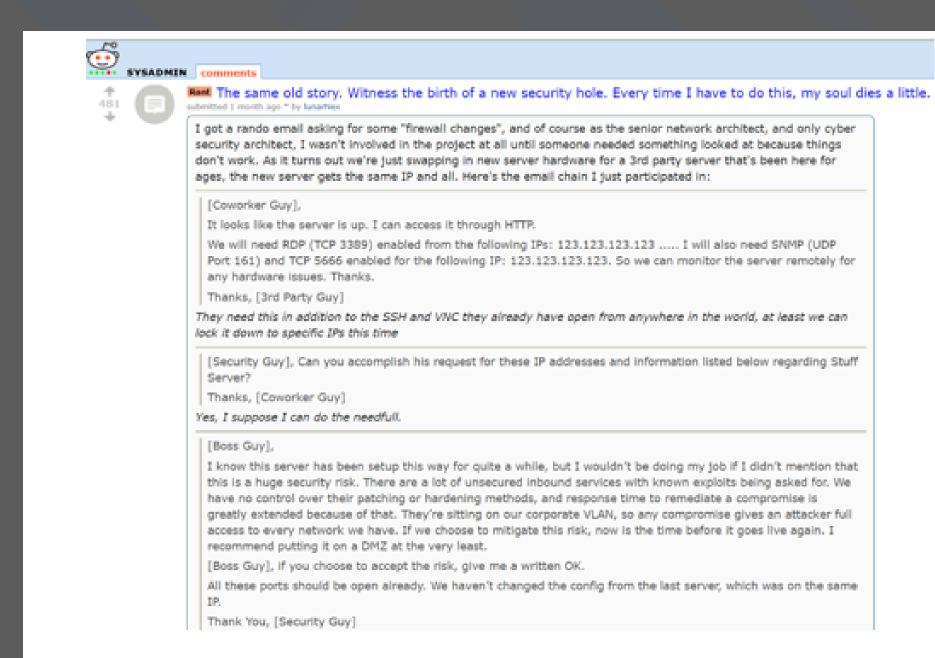
- Leverage an automated discovery tool to continuously find privileged accounts on your network.
- Secure and manage credentials in an enterprise identity management solution.
- Increase productivity by eliminating checkin/check-out and automatically injecting credentials into a session.
- Eliminating their visibility to the credential reduces threat of being phished or used through another pathway.







THE BIRTH OF A NEW SECURITY HOLE



"Due to timing of the <Insert Important Event> let's get this up and running and we will circle back about patching and hardening methods.." - Boss Guy

"If security slows down production which in turn reduces profitability, [executive management is] never going to side with IT. It's a matter of risk balancing, and if they've never experienced a security breach, they're going to take the risky route until they do."

- Reddit Commenter



4. ROTATE & RANDOMIZE PRIVILEGED CREDENTIALS



- Ensure every local credential that has some type of admin right has a unique credential – no more shared passwords.
- Stop lateral movement by eliminating common credentials across endpoints.
- If credential is compromised, won't be useful for long, helping to contain losses.



5. PROTECT SERVICE ACCOUNTS

- Manage business uptime, but ensure those credentials can still be rotated.
- Critical business systems often have the same service account for years.
- Ensure critical systems stay productive and don't have cascading failures while securing them.





6. FORTIFY APP TO APP SECURITY



- Malicious users can compromise hard coded credentials in a script or an application.
- Remove a prime target with app to app credential security.
- Obscure credential through an identity management solution and rotate to remove threat.



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Defend the CREDENTIAL



SECURE VENDOR ACCESS





SECURE INSIDER
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PROTECT SERVICE
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FORTIFY APP TO APP SECURITY

SUMMARY

- You can't eliminate breaches, but you can contain their impact to acceptable loss.
- By protecting both privileged identities and access pathways you can mitigate the damage done by attackers.
- Using automation will allow you to protect yourself against threats while increasing business productivity and performance.





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