



CYBER SECURITE

POURQUOI LE PAM EST-IL LA PRIORITÉ NUMÉRO UN ?

LES RECOMMANDATIONS DE GARTNER



Gartner Top 10 Security Projects for 2018

June 6, 2018

Contributor: Jill Beadle

SECURITY

CISOs should focus on these ten security projects to reduce risk and make a large impact on the business.

No. 1: Privileged account management

This project is intended to make it harder for attackers to access privileged accounts and should allow security teams to monitor behaviors for unusual access. At a minimum, CISOs should institute mandatory multifactor authentication (MFA) for all administrators. It is also recommended that CISOs use MFA for third-party access, such as contractors.

Tip: Phase in using a risk-based approach (high value, high risk) systems first. Monitor behaviors.

[\(https://www.gartner.com/smarterwithgartner/gartner-top-10-security-projects-for-2018/ \)](https://www.gartner.com/smarterwithgartner/gartner-top-10-security-projects-for-2018/)

Les attaques continuent d'exploiter des failles

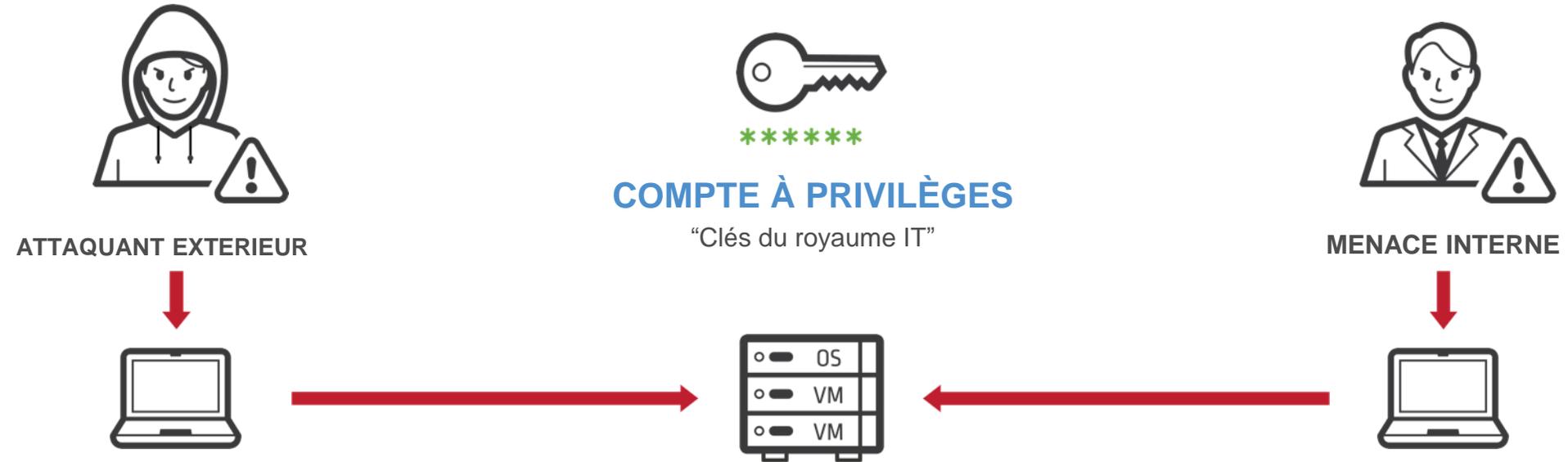
Sous-traitant militaire Australien
Credentials par défaut
compromettant un tiers détenant
des informations sensibles

NotPetya
Utilisation de l'outil de collecte
de mots de passe Mimikatz,
pour permettre la propagation
au sein du réseau

Tesla
Employé mécontent exfiltrant
des données à des tiers
inconnus et modifiant le code

SWIFT attack
Authentifiants SWIFT de la
banque compromis et
utilisés pour transférer des
fonds.

LES COMPTES A PRIVILÈGES, CLÉS DU ROYAUME !

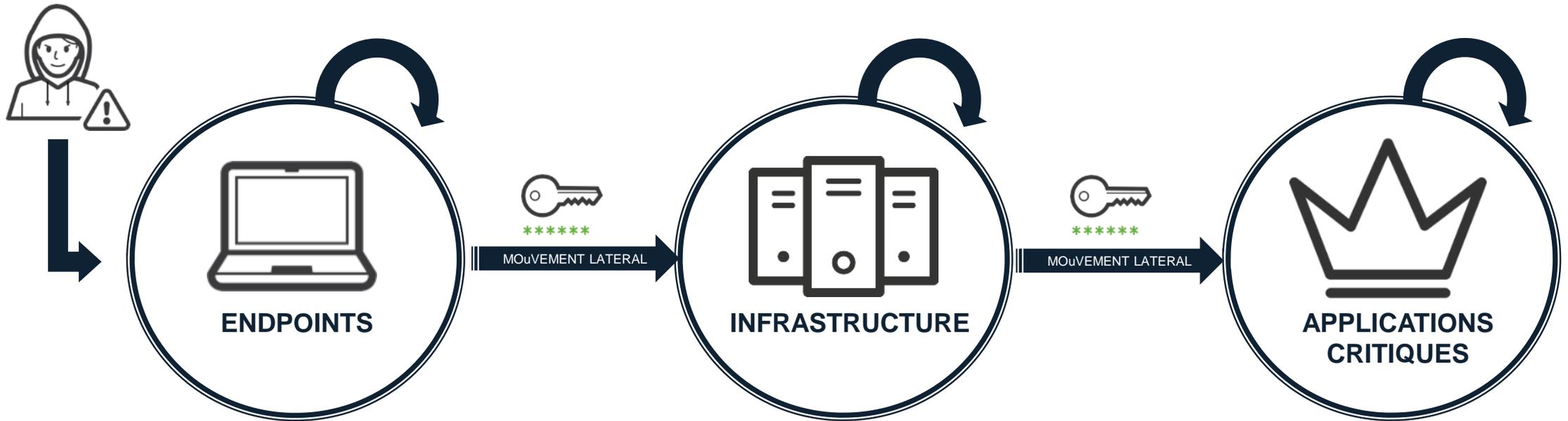


LES ATTAQUANTS ENTRERONT...



...OU SONT MÊME DÉJÀ PRÉSENTS

LA VOIX LA PLUS EMPRUNTÉE...



LE MAILLON FAIBLE

4% of people will click on any given phishing campaign.

“This is something we’ve been saying for the last three years, and sadly it’s still true today—people are still falling for phishing campaigns”

Your employees are your weakest link.



Hacked: The Bangladesh Bank Heist

How hackers got away with one of the biggest thefts in history, robbing Bangladesh's central bank of more than \$80m.

24 May 2018 11:49 GMT [Crime](#) [Bangladesh](#) [Corruption](#) [Business & Economy](#) [Investigation](#)



LA MENACE INTERNE

Se produit dans 26%
des attaques, dont
les coûts sont
importants

Les motivations les plus courantes:



FRUSTRATION



FINANCIERES



HACKTIVISME



INFLUENCE
EXTERIEURE

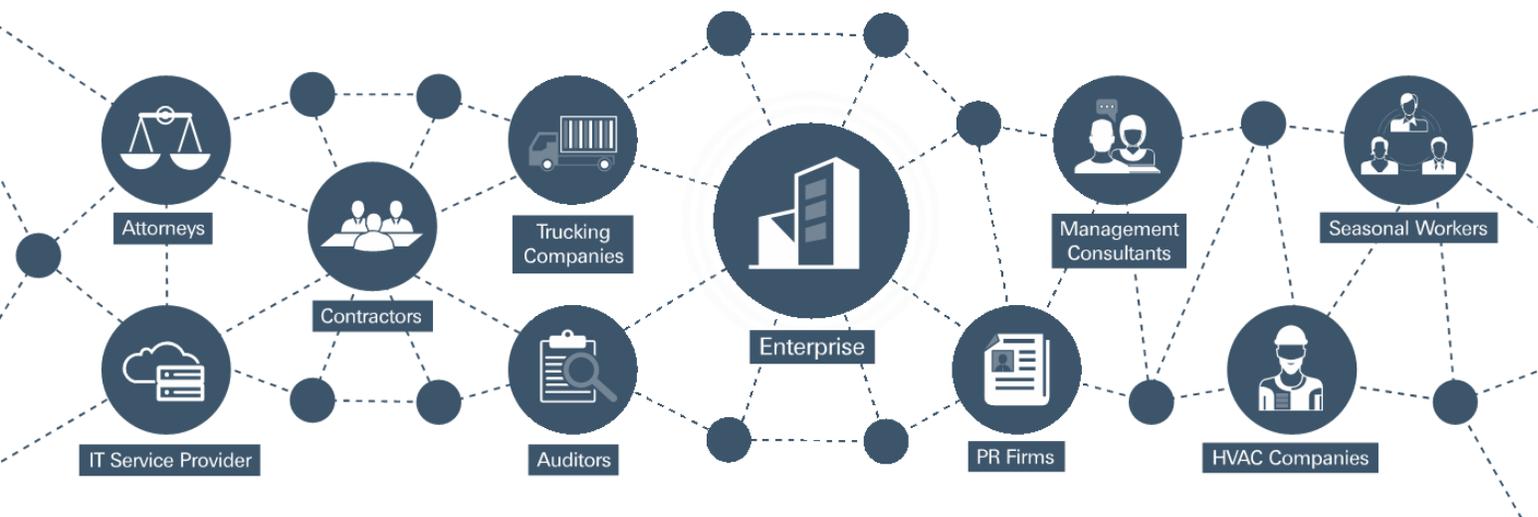


**Elon Musk emails employees
about 'extensive and damaging
sabotage' by employee**

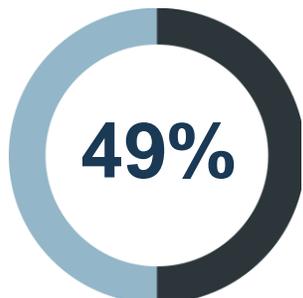
- Tesla CEO Elon Musk sent an e-mail to all employees on Sunday night alleging there was a saboteur within the company's ranks.
- Musk alleged this employee tweaked code on internal products and sent company data out without authorization.

LA MENACE EXTERNE

Au moins 60% des organisations autorisent les accès distants à des tiers.



D'après une étude Ponemon...



Des répondants ont subi des fuites de données causées par des tiers



Pensent que le problème s'aggrave



online **hacking**

Top secret information about Australia's military hacked

AN INVESTIGATION into an Australian Defence Force hack has revealed almost anybody could have penetrated its security due to a simple password fail.

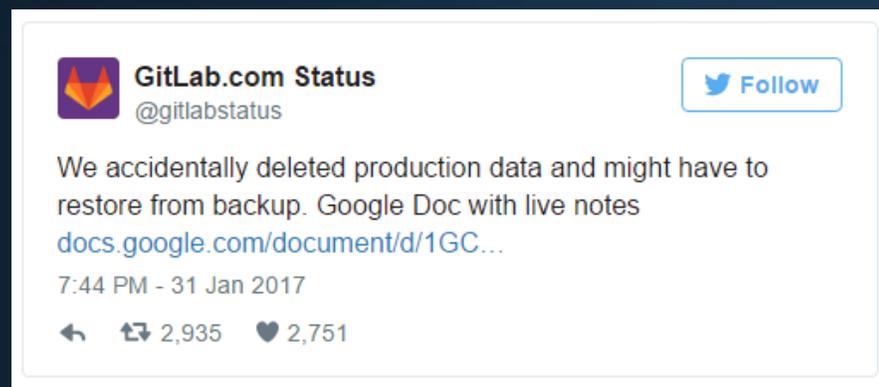
Lisa Martin

AAP OCTOBER 12, 2017 7:51AM

LES INCIDENTS

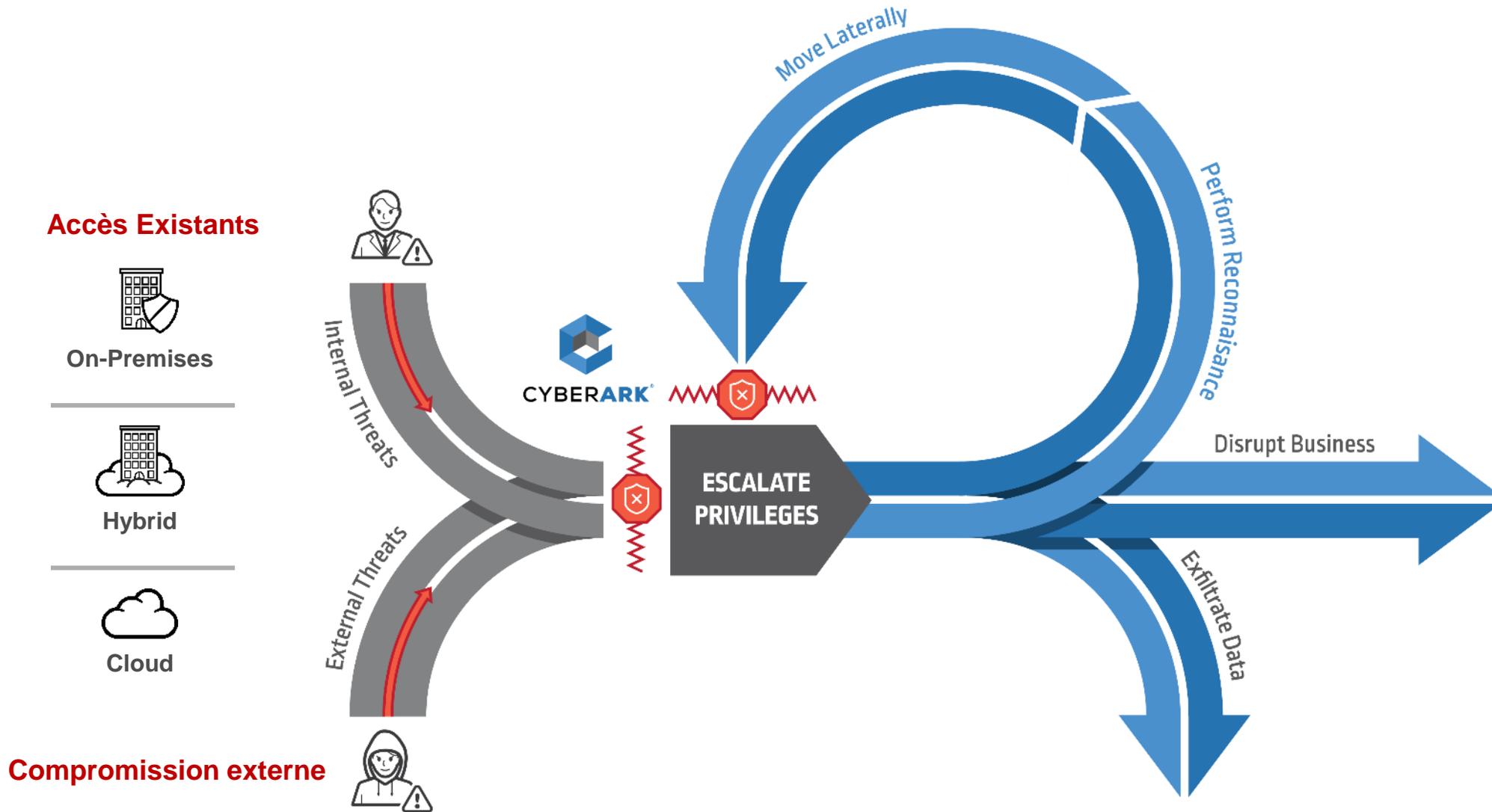
50% of organizations reported that their single worst breach during the previous year was attributed to inadvertent human error.

(Source: "Information Security Breached Survey." HM Government, Conducted by PwC, June 2015)



Un employé de GitLab supprime
Accidentellement des données
importantes

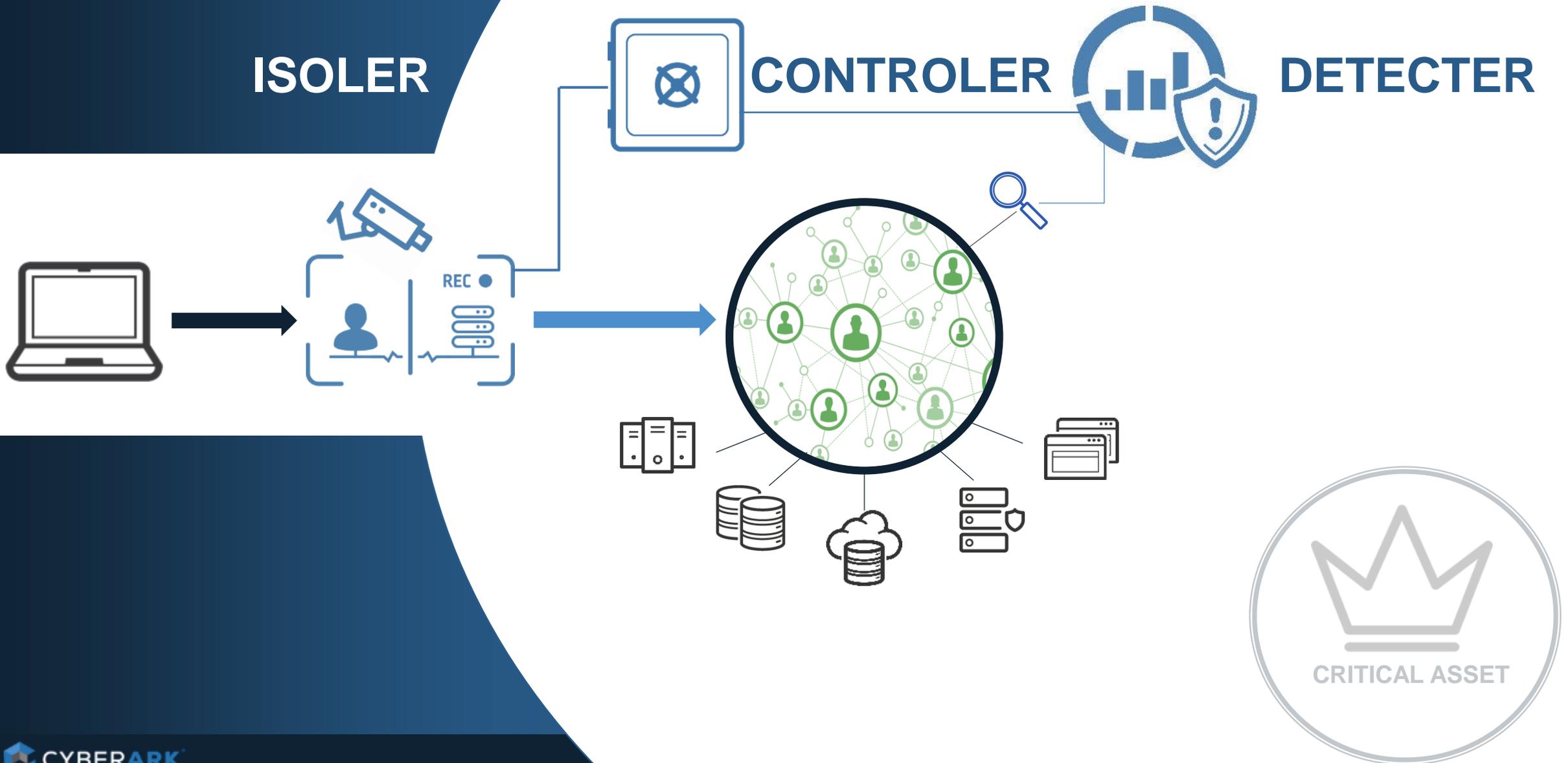
COMMENT ISOLER LES ÉQUIPEMENTS SENSIBLES



ISOLER

CONTROLLER

DETECTOR



LE FUTUR DES VOLS D'IDENTIFIANTS



Cloud



Environnements DevOps

AUTOMATISATION

Automatic Scale
Services

TECHNOLOGIES "SERVERLESS"

Fonctions & Containers

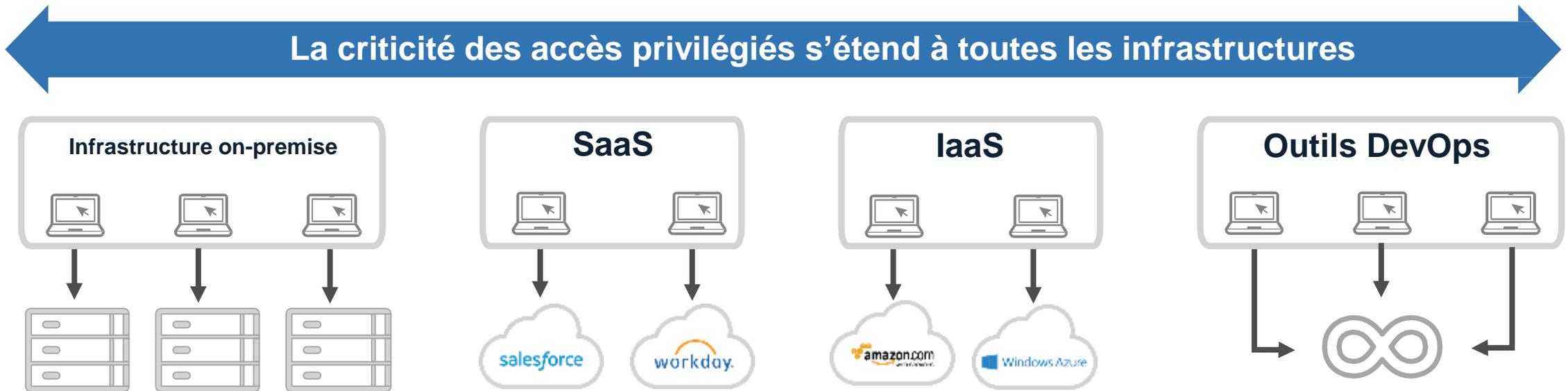


NOUVEAUX CREDENTIALS

Identité et Rôles Machine

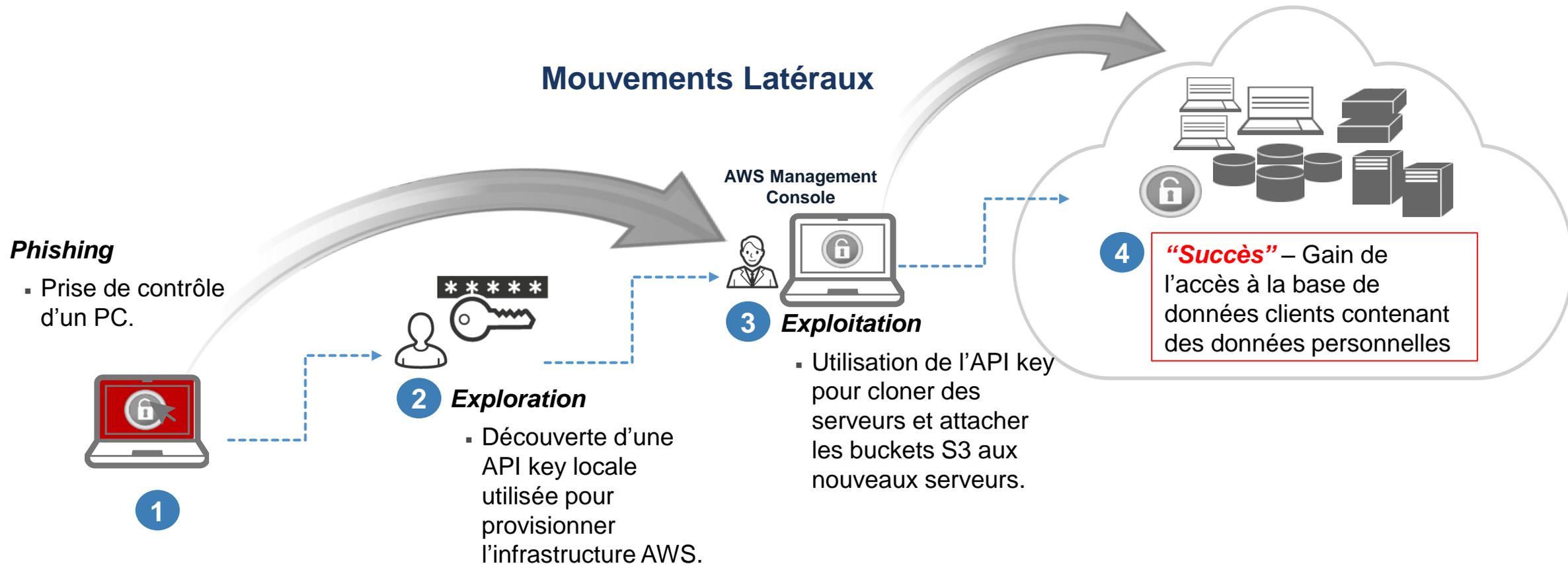
LA TRANSFORMATION DIGITALE MODIFIE LES ACCÈS

La transformation digitale s'accompagne de nouveaux processus d'administration des infrastructures, s'appuyant notamment sur des accès tiers, de l'automatisation et de l'orchestration.



EXEMPLE SIMPLE D'EXERCICE RED TEAM : LES VULNÉRABILITÉS FACE AU CLOUD

Demande client d'un exercice Red Team afin d'identifier des vulnérabilités potentielles



online **hacking**

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AAP  OCTOBER 12, 2017 7:51AM

Nouveau Monde... ...Mêmes Problèmes

CRYPTOCURRENCY JACKING —

Tesla cloud resources are hacked by cryptocurrency-mining malware

Crooks find poorly secured access credentials, use them to install malware on Tesla cloud resources.

DAN GOODIN - 2/20/2018, 7:21 PM

AWS Encryption Keys Compromised in OneLogin Data Breach

June 8, 2017

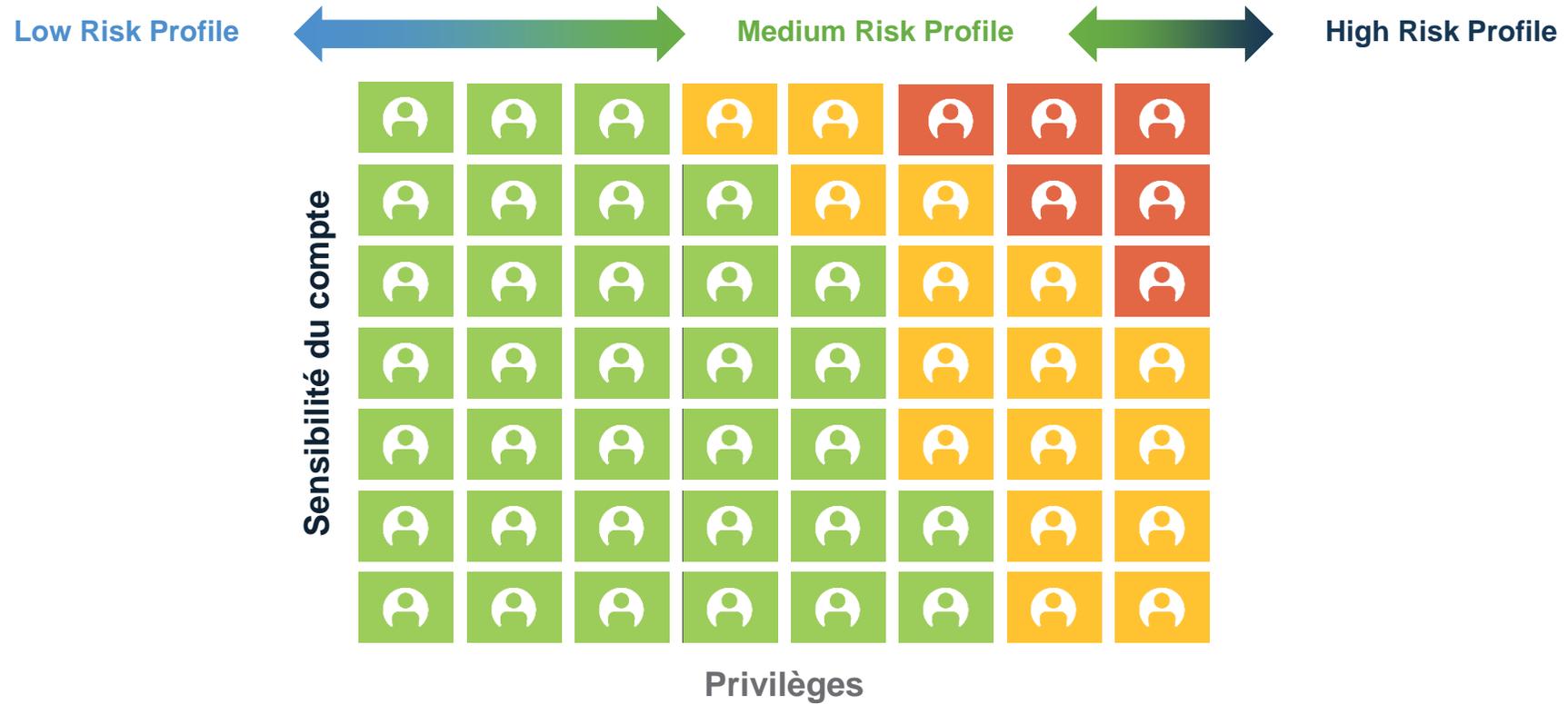
by John Armstrong - Chief Marketing Officer | [LinkedIn](#)

Cloud-based Single Sign-on Services Exposed as Single Point of Failure

There is always, of course, a slight irony when companies focused on providing security for their customers suffer a data breach. On May 31, [OneLogin](#), a San Francisco-based company that allows users to reuse their login credentials to multiple sites and apps through a cloud-based platform, reported a trouble...

LA METHODE

UNE APPROCHE BASÉE SUR LE RISQUE



SE DÉFENDRE AVEC UNE APPROCHE BASÉE SUR LE RISQUE



Eliminate Irreversible
Network Takeover Attacks



Control and Secure
Infrastructure Accounts



Limit Lateral Movement



Secure SaaS Admins and
Privileged Business Users

**Systematically Address
Organization's Top
Control Goals**



Manage *NIX
SSH Keys



Defend DevOps Secrets in the
Cloud and On-Premises



Protect Credentials for
Third-Party Applications

PAR OÙ COMMENCER ?

Identifier les accès à privilèges légitimes...



IDENTIFIER LES RISQUES – MOUVEMENTS LATÉRAUX

CREDENTIAL THEFT VULNERABILITY

PASS-THE-HASH: ACTIVE THREATS
97 Privileged account hashes found on

PASS-THE-HASH: INACTIVE THREATS
277 Privileged account hashes previously found (Last 90 days)

PASS-THE-HASH: MITIGATED WITH PRIVILEGED ACCOUNT SECURITY
Privileged Accounts Security can frequently prevent the use of one-time passwords on all Privileged Accounts. Before: 97 Privileged account hashes on. After: 12 Privileged account hashes on.

PASS-THE-HASH: ORGANIZATIONAL VULNERABILITY MAP
See a map of all vulnerable machines and the vulnerabilities found in your organization.

[OPEN PTH MAP](#)

VULNERABILITY STATUS

PASS-THE-HASH: VULNERABLE MACHINES

Pass-the-Hash: Organizational Vulnerability Map

Causing Vulnerability | All Machines | Search machines... | File server-1

Machine 1, Server 5, IT file server 2, Server 6, Machine 2, Server 3, Server 2, Backup server 2, Database server 2, Server 1, Machine 10, Exchange server, Machine 3, IP phone server, Machine 8, Billing server 1, Machine 9, Backup server 1, Ticketing server 1, Database server 1, Machine 7, IIS Server, IT file server 1, Machine 8.

91%

Causing vulnerability
Vulnerable
Causing vulnerability and vulnerable

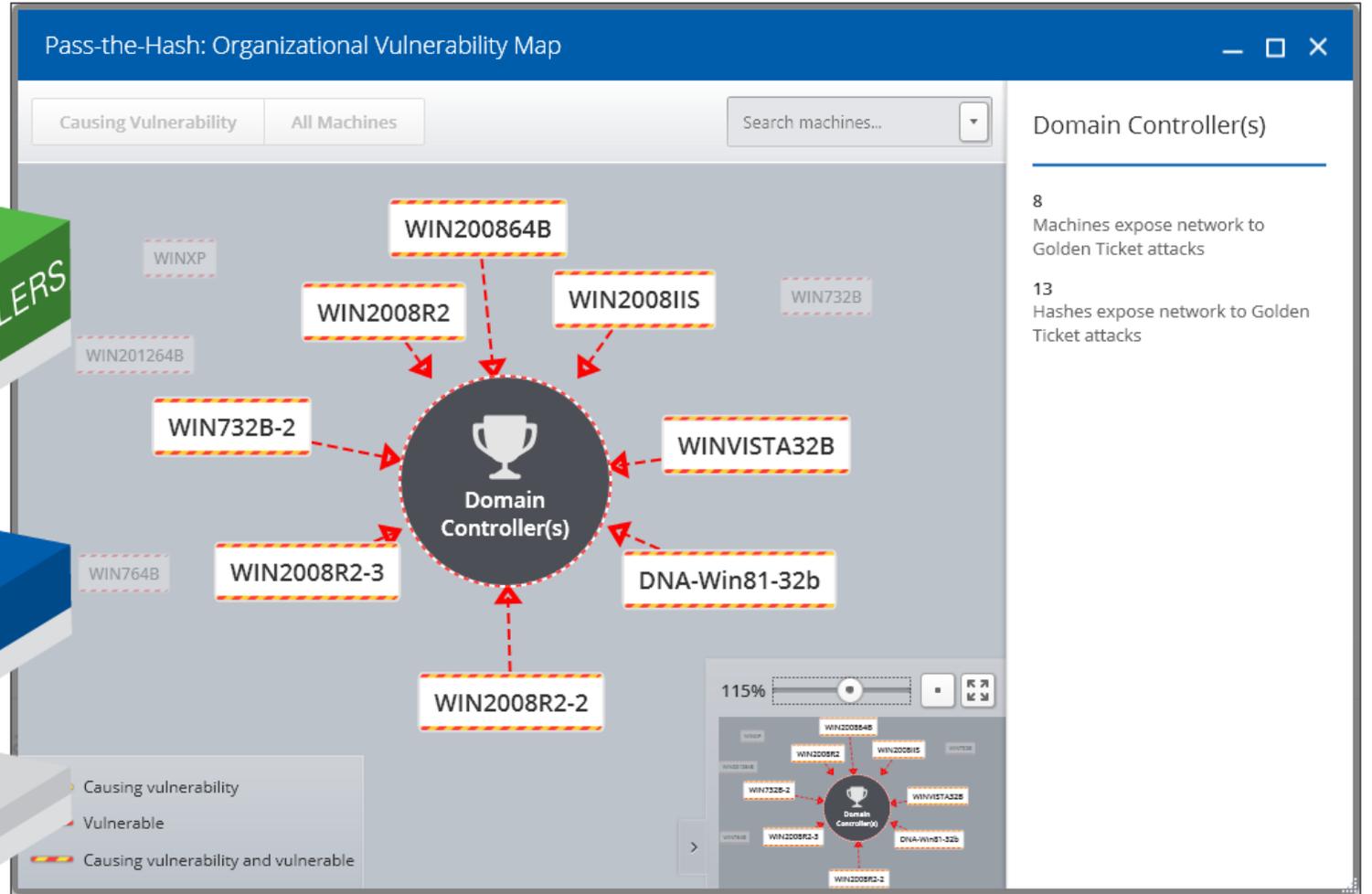
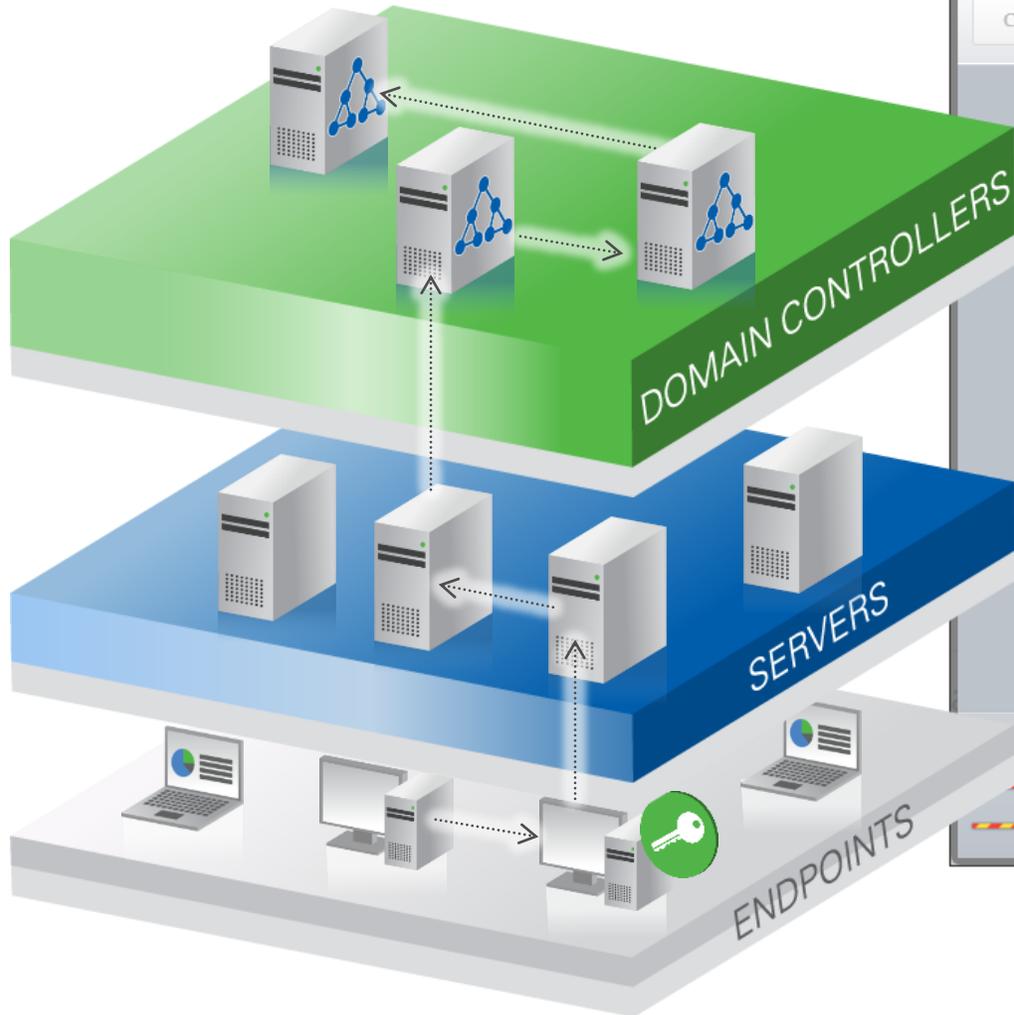
Pass-the-Hash: Organizational Vulnerability Map

Causing Vulnerability | All Machines | Search machines...

Causing vulnerability
Vulnerable
Causing vulnerability and vulnerable

64%

IDENTIFIER LES RISQUES- COMPROMISSION DE DOMAINE



QUESTIONS?

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