



# Security Summit

Milano 11-12-13 marzo 2025



## Attacchi Cross-Domain Superare la Frammentazione per una Difesa Unificata

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# Luca Bechelli



COMITATO DIRETTIVO



PARTNER @P4I – GRUPPO DIGITAL360

## Alberto Greco

Team Lead Sales Engineering, *CrowdStrike*



L'inizio in CrowdStrike avviene nel gennaio 2022 con lo scopo di seguire il team dedicato al mercato enterprise e mid-market. Il ruolo principale è agire da punto di congiunzione tra le esigenze di business dei clienti e le soluzioni tecnologiche di CrowdStrike: dall'endpoint al cloud, dal mondo identity alla threat intelligence, dall'XDR all'IT Operations. A questo si aggiunge il ruolo di Team Lead per il team tech sales in Italia.

In passato Sales Engineer Enterprise per l'intero portfolio Palo Alto Networks, Sales Engineer in Forcepoint con focus sulla network security, technical trainer Fortinet in Exclusive Networks, network e security specialist in Sinergy e, prima ancora, network security specialist in Thales Alenia Space.

Convinto sostenitore della frase "Se non lo sai spiegare in modo semplice, non l'hai capito abbastanza bene" e che una diffusione della cultura CyberSec ad ogni livello sia fondamentale per una piena consapevolezza delle problematiche e, ancor più, delle opportunità che ne derivano.





## SCATTERED SPIDER

Financially motivated actor;  
successfully abuses all major  
cloud service providers

- Leveraged a federated identity provider (IdP) to establish persistence with a federated domain in Entra ID, initially relying on AADInternals Azure AD backdoor; later added a federated IdP to a victim's Okta tenant

- Accessed credentials stored in cloud-hosted secrets manager and HashiCorp Vault, then located a DC inside a victim's Azure tenant, copied the disks and created a new adversary-controlled VM where the adversary mounted the DC disk copies. From those disks, the adversary dumped the Active Directory database NTDS.dit

- Used access to a victim's M365 environment to search SharePoint Online for VPN setup instructions. Logged on to the VPN and moved laterally to on-premises servers. Used cloud-hosted VMs to move laterally from the cloud control plane to computer instances

- Leveraged the open-source S3 Browser to exfiltrate data to an external adversary-controlled cloud storage repository

# Cloud Control Plane Is a Prime Target

The cloud control plane is the **backbone of cloud operations**, serving as a command center to manage, secure and optimize cloud environments.

A compromised control plane gives adversaries **broad access and control** over the entire cloud environment, making it a prime target.

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# SCATTERED SPIDER Cross-Domain Attack

Having full insight into telemetry spanning endpoint, identity and cloud environments is a force multiplier to hunt cross-domain attacks

**1** 

## IDENTITY

Conducted a phishing campaign to obtain valid credentials

**2** 


## CLOUD

Leveraged the credentials to authenticate to the cloud control plane

**3** 

## CLOUD

Established a foothold on a cloud-hosted VM via a cloud service VM management agent

**4** 

## ENDPOINT

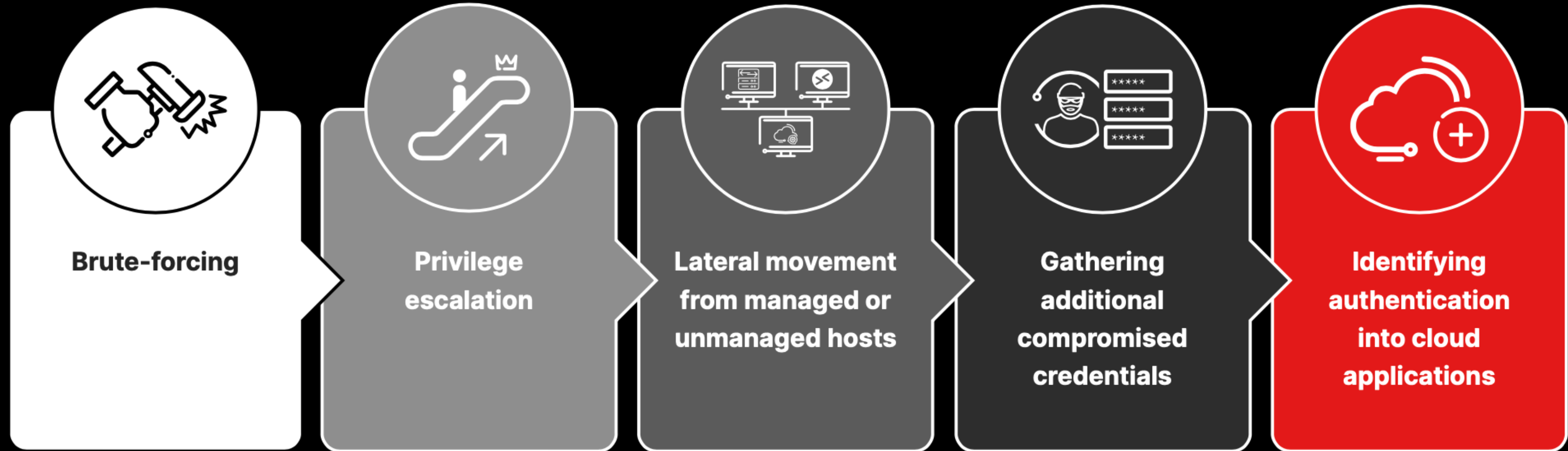
Established persistence by creating a new user and downloading FleetDeck



# Stealthy Adversaries Exploit Legitimate Credentials to Gain Access

Surge in access broker advertisements

142% in healthcare and 152% in consulting and professional services





FAMOUS CHOLLIMA has been active since at least 2018. The adversary primarily conducts operations to illicitly obtain freelance or full-time equivalent (FTE) work to earn a salary that can be funnelled to North Korea.

Insider threats can lead to data theft, regulatory penalties and damaged trust.

Adversary groups like Democratic People's Republic of Korea (DPRK)-nexus FAMOUS CHOLLIMA use insiders to steal information for harmful operations.

The CrowdStrike OverWatch team recently uncovered FAMOUS CHOLLIMA insiders applying to or working at more than 150 organizations and confirmed that data theft occurred in 50% of service engagements, illustrating how insiders pose serious risks to reputation and finances.

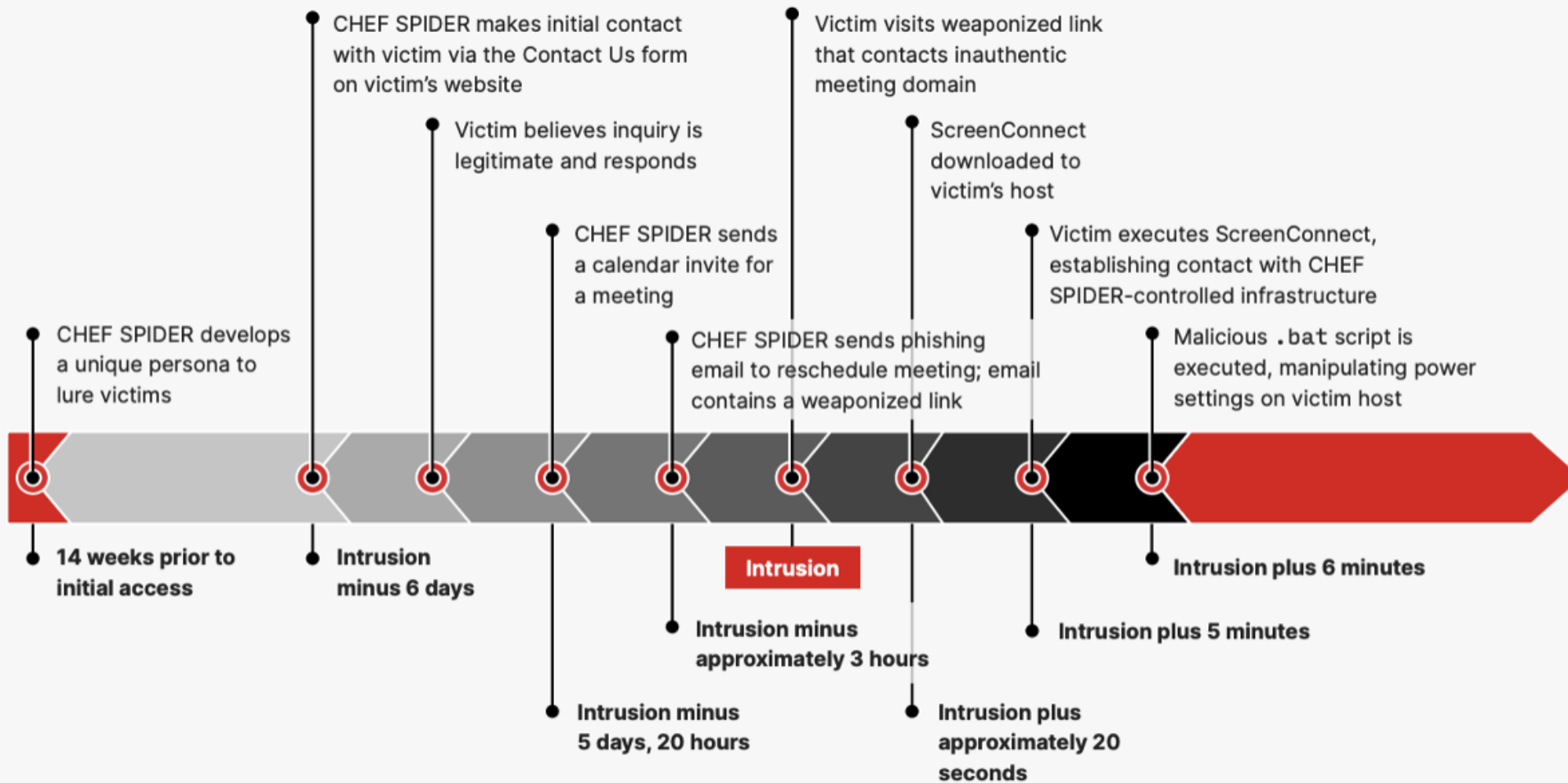
# How Falcon Adversary OverWatch Hunts Down Insider Threats

1. **Global Telemetry and Detection:** correlates telemetry from multiple customer environments to identify patterns missed by individual organizations
2. **Advanced Monitoring:** conducts real-time monitoring and behavioural analysis to catch insider threats early
3. **Speed and Collaboration:** uses AI-powered detections to identify adversaries in minutes and partners with law enforcement to dismantle insider networks

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# Remote Monitoring and Management Tool Exploit



**70%** increase in adversaries exploiting legitimate RMM tools

**156%** increase in ConnectWise ScreenConnect usage, becoming the most exploited RMM tool

Top 5 RMM tools:

1. ConnectWise ScreenConnect
2. AnyDesk
3. TeamViewer
4. Atera Agent
5. Splashtop

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**INSIDER THREAT HIRED**

**+2 Days**

Laptop shipped for first day of work

FAMOUS CHOLLIMA hired at a customer



**+4 Days**

Falcon Adversary OverWatch immediately identified laptop was plugged into a laptop farm and notified customer

**+ HOURS LATER**

Customer deactivated everything at midnight

**+5 Days**

Customer terminated employee before onboarding

**INSIDER THREAT TERMINATED**



# Cross-Domain Attacks Are Now Mainstream

Only a unified platform enables threat hunting to accelerate detection and response

**Endpoint**  
Finally, adversaries move laterally to access high-value data or deploy ransomware for extortion

## Identity

First, adversaries exploit valid credentials to gain unauthorized access into your environment

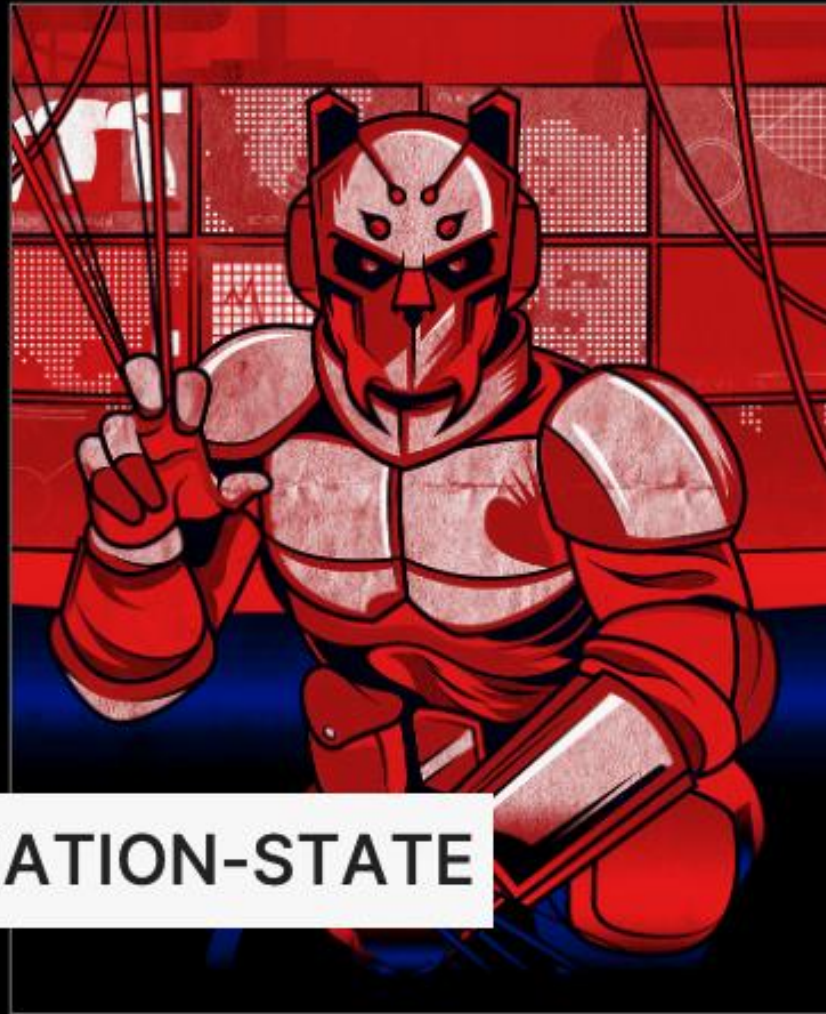
## Cloud

Next, adversaries use legitimate commands to harvest credentials or further compromise cloud environment





# Threat Actor Motivation



NATION-STATE



eCRIME



HACKTIVISM



## CRIMINAL

ALCHEMIST SPIDER  
ALPHA SPIDER  
AVIATOR SPIDER  
BITWISE SPIDER  
BLIND SPIDER  
BRAIN SPIDER  
CARBON SPIDER  
CHARIOT SPIDER  
CHAOTIC SPIDER  
CHEF SPIDER  
CLOCKWORK SPIDER  
DEMON SPIDER  
DONUT SPIDER  
FROZEN SPIDER  
GRACEFUL SPIDER  
HAZARD SPIDER  
HERMIT SPIDER  
HIVE SPIDER  
HOLIDAY SPIDER  
HONEY SPIDER  
INDRIK SPIDER  
KNOCKOUT SPIDER  
LILY SPIDER  
LUNAR SPIDER  
MALLARD SPIDER  
MANGLED SPIDER  
MASKED SPIDER  
MONARCH SPIDER

MUMMY SPIDER  
NARWHAL SPIDER  
ODYSSEY SPIDER  
OUTBREAK SPIDER  
PERCUSSION SPIDER  
PROPHET SPIDER  
**PUNK SPIDER**  
QUANTUM SPIDER  
RECESS SPIDER  
RICE SPIDER  
ROYAL SPIDER  
SALTY SPIDER  
SAMBA SPIDER  
**SCATTERED SPIDER**  
SCULLY SPIDER  
SHINING SPIDER  
SLIPPY SPIDER  
SMOKY SPIDER  
SOLAR SPIDER  
SPRITE SPIDER  
TRAVELING SPIDER  
TUNNEL SPIDER  
VAMPIRE SPIDER  
VENOM SPIDER  
VETO SPIDER  
WANDERING SPIDER  
WIZARD SPIDER  
VICE SPIDER

## NORTH KOREA

LABYRINTH CHOLLIMA  
**FAMOUS CHOLLIMA**  
RICOCHET CHOLLIMA  
SILENT CHOLLIMA  
STARDUST CHOLLIMA  
VELVET CHOLLIMA

## INDIA

HAZY TIGER  
OUTRIDER TIGER  
QUILTED TIGER  
RAZOR TIGER  
VICEROY TIGER

## EGYPT

WATCHFUL SPHINX

## VIETNAM

OCEAN BUFFALO

## SOUTH KOREA

SHADOW CRANE

## CHINA

AQUATIC PANDA  
CASCADE PANDA  
EMISSARY PANDA  
ETHEREAL PANDA  
JACKPOT PANDA  
**HORDE PANDA**  
KARMA PANDA  
KRYPTONITE PANDA  
LOTUS PANDA  
MUSTANG PANDA  
OVERCAST PANDA  
PHANTOM PANDA  
PIRATE PANDA  
PUZZLE PANDA  
SHATTERED PANDA  
SUNRISE PANDA  
VANGUARD PANDA  
VAPOR PANDA  
VERTIGO PANDA  
VIXEN PANDA  
WICKED PANDA

## IRAN

BANISHED KITTEN  
CHARMING KITTEN  
CHRONO KITTEN  
HAYWIRE KITTEN  
IMPERIAL KITTEN  
NEMESIS KITTEN  
PIONEER KITTEN  
REFINED KITTEN  
SPECTRAL KITTEN  
**STATIC KITTEN**  
TRACER KITTEN  
VENGEFUL KITTEN

## PAKISTAN

MYTHIC LEOPARD  
FRINGE LEOPARD

## RUSSIA

BERSERK BEAR  
COZY BEAR  
EMBER BEAR  
FANCY BEAR  
GOSSAMER BEAR  
PRIMITIVE BEAR  
VENOMOUS BEAR  
VOODOO BEAR

## KAZAKHSTAN

**COMRADE SAIGA**

## SYRIA

DEADEYE HAWK

## COLOMBIA

GALACTIC OCELOT

## TURKEY

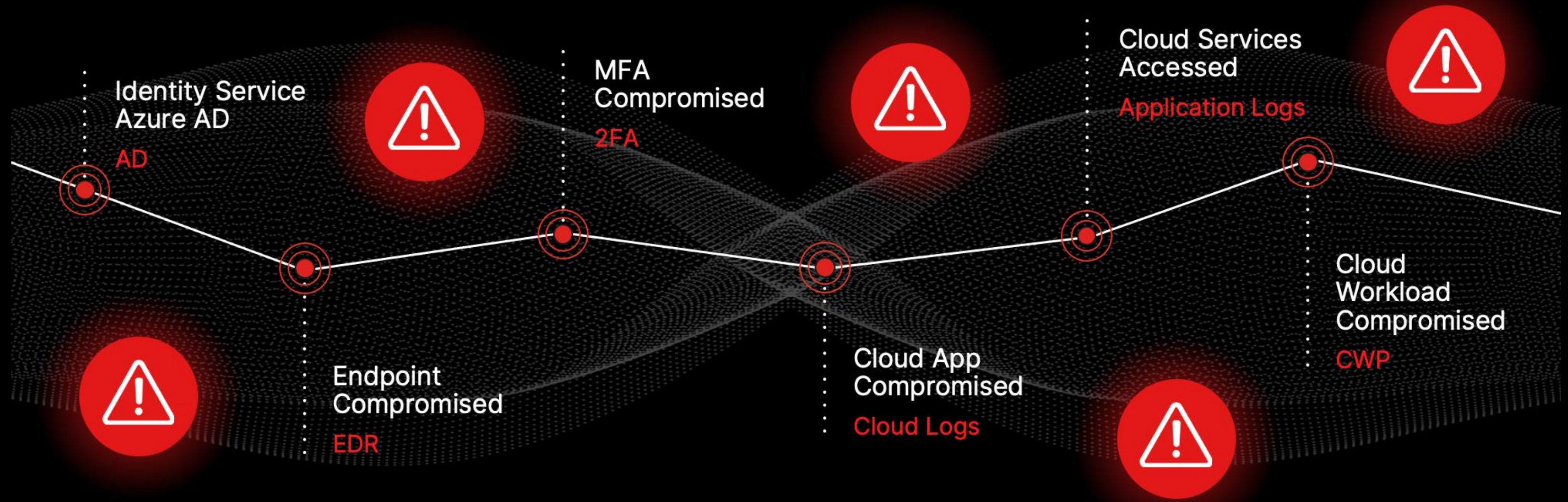
COSMIC WOLF

## HACKTIVIST

CURIOUS JACKAL  
FRONTLINE JACKAL  
INTREPID JACKAL  
PARTISAN JACKAL  
REGAL JACKAL  
RENEGADE JACKAL



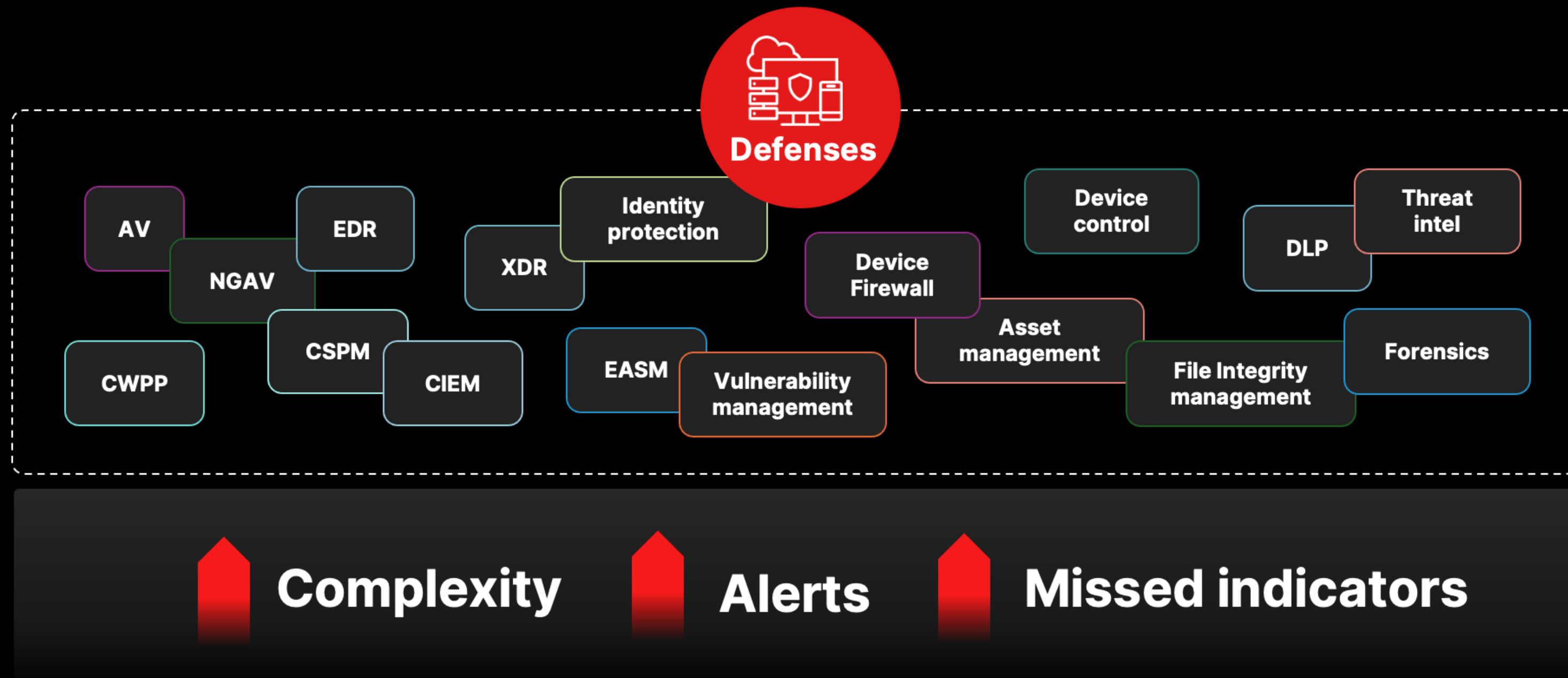
# The Nature of an Attack



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# Adversaries Live in the Gaps Between Traditional Siloed Tools



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# What Is Cross Domain Threat Hunting?

Proactively searching for threats that have **bypassed initial security defenses**.

Adversaries can remain **hidden for months**, collecting sensitive data and credentials to enable lateral movement.

**Cross Domain Threat Hunting** uses data from Identity, Cloud Control Plane, Endpoint telemetry, and other domains such as IOT/ICT/OT.



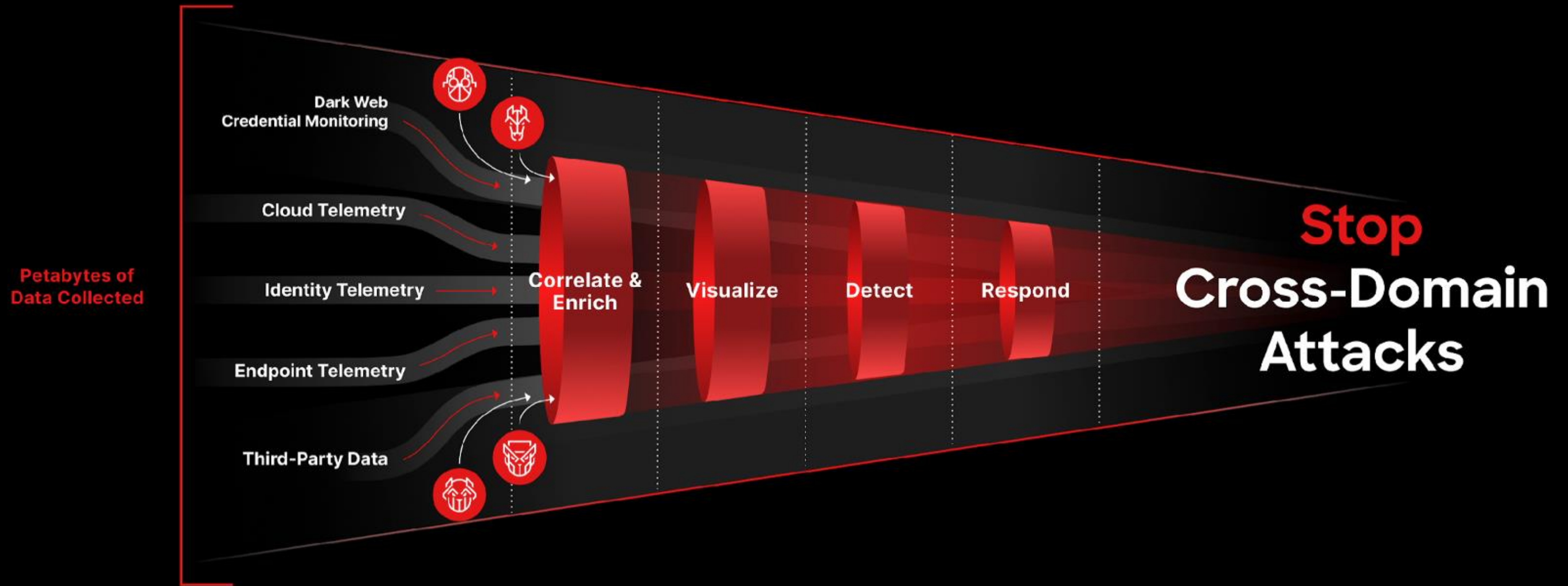


# 5 Steps to Be Prepared

- 1 Protect Identities
- 2 Effective Cloud Security
- 3 Secure the Endpoint
- 4 Cross Domain Visibility & Hunting
- 5 Know the Adversary

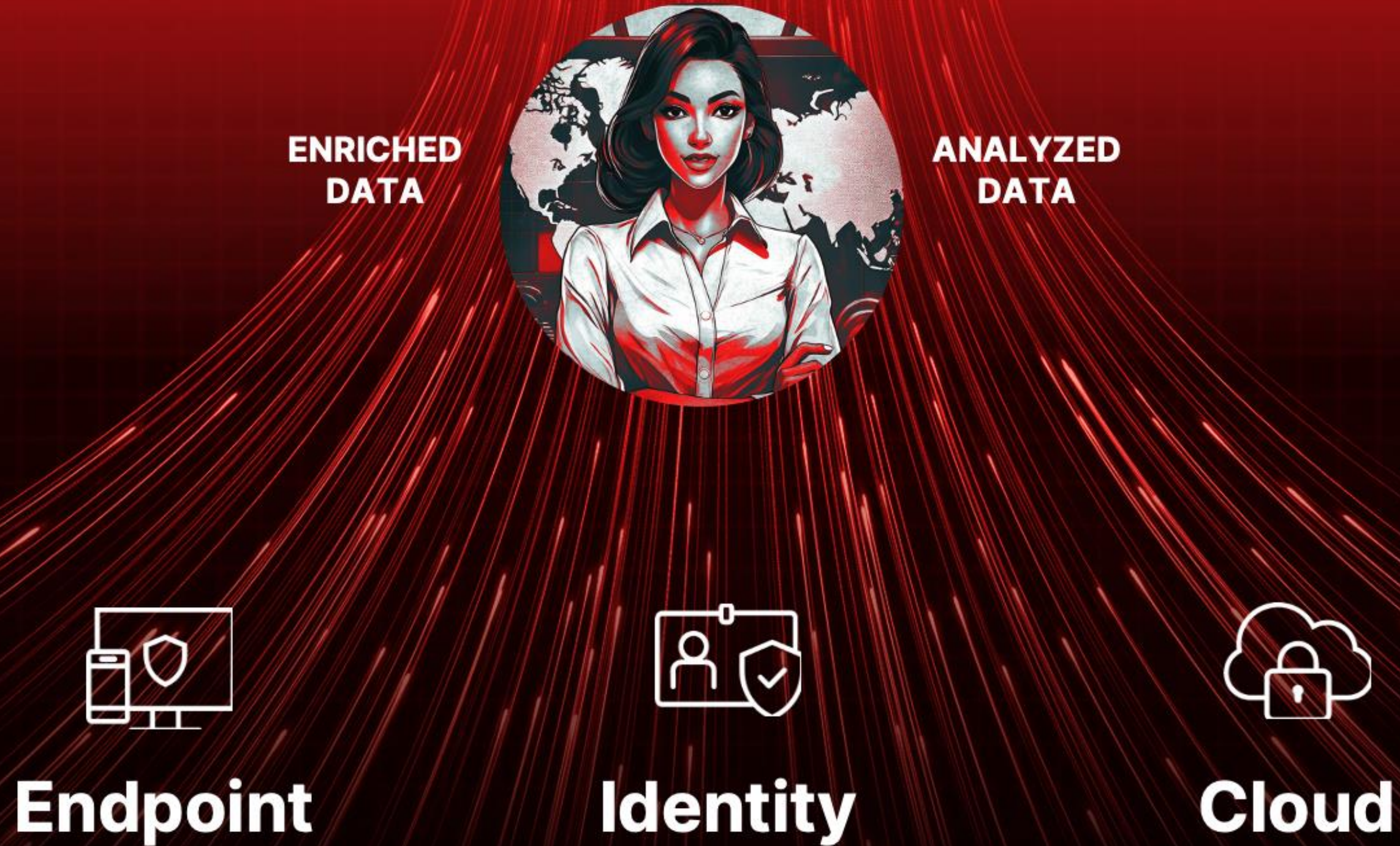


# Consolidating Cross-Domain Data



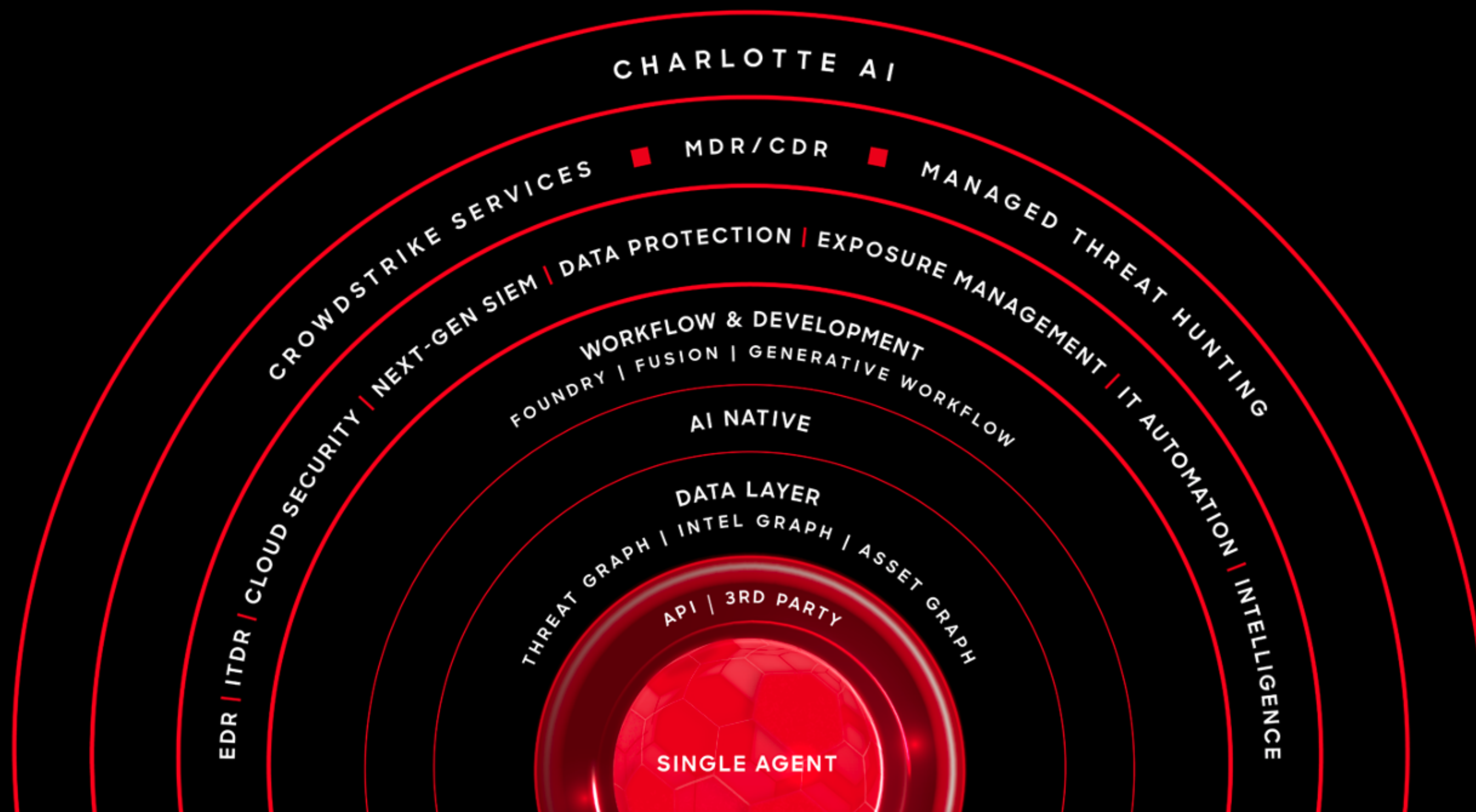


# AI Powered Threat Hunting





# CROWDSTRIKE'S FALCON PLATFORM AND SERVICES



# Q&A





# Security Summit

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## Contatti:

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**Vieni a trovarci al nostro stand!**

