



# BeyondTrust

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## Support & Empower a Hybrid Workforce with Universal Privilege Management

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*Senior Solutions Architect*



# Agenda

- **CISO considerations** for a changing workforce & the security impact of a rapid transition
- **Next Normal:** Implement & scale strong security protocols to enable a hybrid workforce
- **Universal Privilege Management** - Securing every privilege, every time

# Agility & Adaptability

tactical responses during a challenging period

VPN  
requirements  
went from 25k  
to 150k  
overnight

Workarounds  
required to  
support  
patching &  
updating

IT working  
24/7 to issue  
devices and  
MFA tokens

Accelerated  
deployment  
plans,  
including  
cloud

Forced  
security policy  
and practice  
reviews &  
changes

IT working  
24/7 to issue  
devices and  
MFA tokens

Security of  
Remote  
Working &  
Collaboration  
Tools

Moved from  
defending lines  
to defending  
dots





# Agility & Adaptability

is not just for enterprises

## Hackers are using coronavirus concerns to trick you, cybersecurity pros warn

Published: March 15, 2020 at 10:13 a.m. ET

By Wallace Witkowski

Coronavirus popular

elcome to USA TODAY NETWORK'S EUROPEAN UNION EXPERIENCE

Learn More



## Working from home because of coronavirus? Be careful what you download to keep cybersafe

All Business Daily Life Health Travel Your Questions

21 Posts

201 New Updates

SORT BY Latest

8:14 a.m. ET, March 12, 2020

### US Health and Human Services warns employees of malware in fake coronavirus map

From CNN's Julia Jones in Seattle

US Health and Human Services employees were warned yesterday of malware in a fake coronavirus mapping website, an HHS employee not authorized to speak on the record told CNN.

"A malicious website pretending to be a live map for coronavirus Covid-19 global cases by Johns Hopkins University is circulating on the internet waiting for unwitting internet users to visit the website," an email to employees read.

The warning came in a department-wide correspondence that detailed the malware as an "information stealing program which can exfiltrate a variety of sense of data," adding that anyone searching for coronavirus information on the internet could unwittingly click on the fake map.

## Hackers find new target as Americans work from home during outbreak

BY MAGGIE MILLER - 03/14/20 07:06 AM EDT

ComputerWeekly.com IT Management Industry Sectors Technology Topics Search Computer Weekly



### Second wave of Covid-19 cyber attacks locked in

## FBI, CISA Warn of Growing 'Vishing' Threat as Hackers Take Advantage of Remote Working Trend



"In some cases, unsuspecting employees approved the 2FA or OTP prompt..."

Two law enforcement agencies are warning businesses to be alert to a new vishing security threat as hackers target remote workers during the Covid-19 pandemic.

The FBI and the Cybersecurity and Infrastructure Security Agency

## Spread of Coronavirus-Themed Cyberattacks Persists with New Attacks



Home / About WHO / Communicating for health / Cyber security

### Beware of criminals pretending to be WHO



Raef Meeuwisse CIBP, CISA, Author of Cybersecurity for Beginners Follow @RaefMeeuwisse



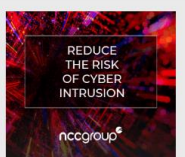
Cybersecurity professionals are always interested in understanding how evolving events shape the threat landscape. Events such as WannaCry and NotPetya may have temporarily crippled technology environments that were running with third-rate security, but the repercussions from the coronavirus will hit every organization, no matter how resilient they thought they were.



No single event to date has changed the tech threat landscape more than the consequences and impacts developing around the Coronavirus (aka SARS-CoV-2 and the disease COVID-19).



Impending shortages of hardware



# Agility & Adaptability

is not just for enterprises

416 Security  
&  
425 Business  
Executives  
Surveyed

41%  
Experienced  
COVID  
Related  
Cyber-Attack

Individuals,  
corporate IT,  
ICS & OT  
systems all  
targeted

94%  
Experienced  
Cyber-Attack  
during last 12  
months

Subject and  
scale change,  
but users are  
still the focus



# Agility & Adaptability

Is not without risk


‘ZeroLogon’  
CVE-2020-  
1472

- Elevation of Privilege (EoP) Vulnerability
- CVSSv3 Score: 10/10
- Allows any attacker on the local network to completely compromise a Windows Domain
- Patched on August 11, 2020
- Seen in multiple active Ransomware campaigns via fake updates & those targeting SSL VPN vulnerabilities



# Poll Question

1. What % of your users are currently working remotely?
  - a) 0-10%
  - b) 11-50%
  - c) 51-99%
  - d) 100%
  - e) Unknown



# **CISO considerations for a changing workforce & the security impact of a rapid transition**

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# CISO Considerations

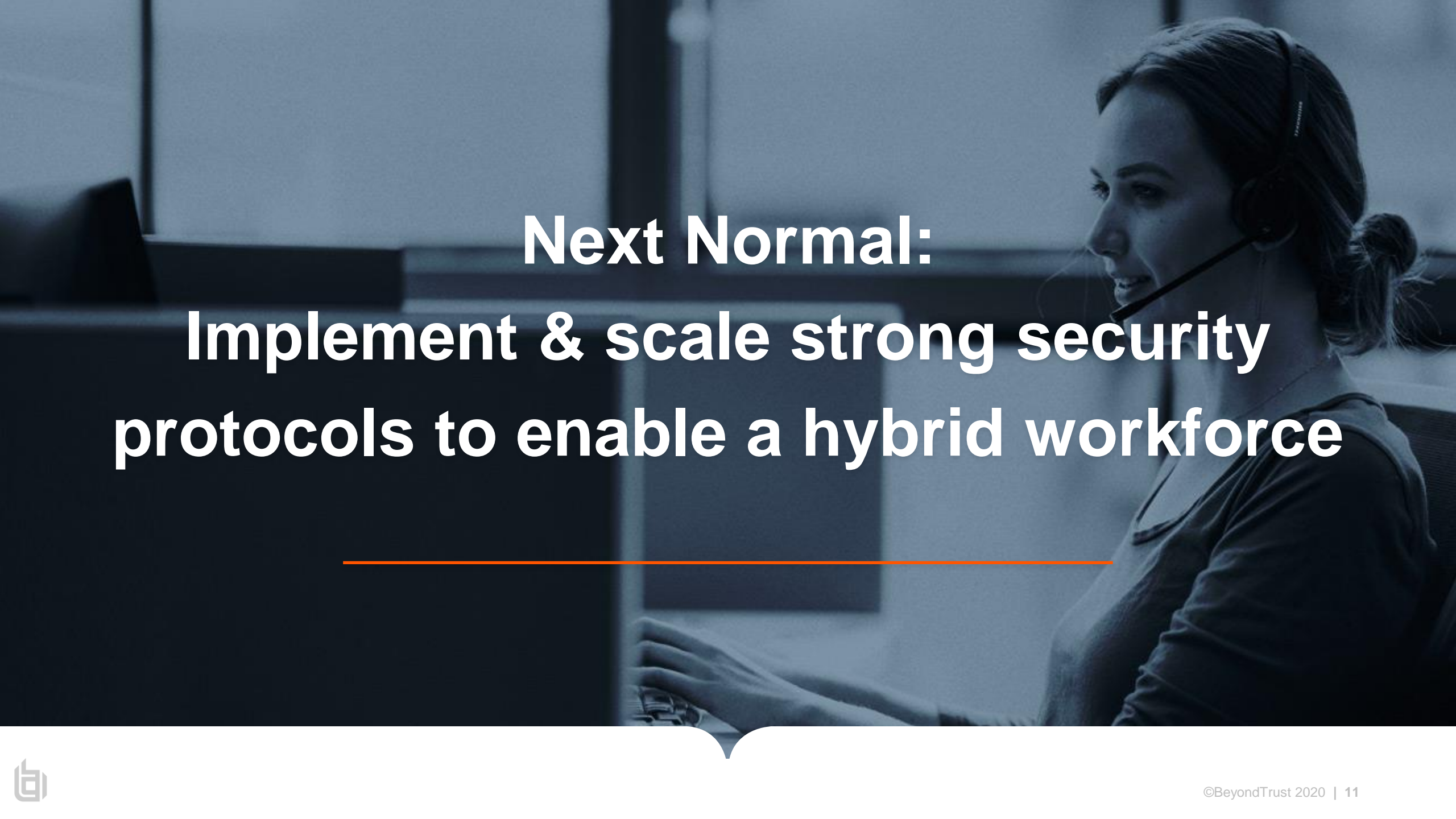
for a changing workforce & the security impact of a rapid transition

- **Remote Access** is the #1 attack pathway
- **BYOD & Shadow IT:** Unmanaged devices, unknown services, insecure tools
- **Unmanaged credentials** are hard to control and increase risk
- **Challenges of Compliance**
- Choose solutions that don't require large IT teams/timelines to implement
- Focus on rapid, efficient, non-intrusive additions to your existing cybersecurity tooling
- Enable your workforce, don't hinder them working



# Poll Question

2. What are your organisations plans for the work force over the next 3 months?
  - a) Full return to pre-lockdown working environment
  - b) Hybrid blend of remote and in 'office' working
  - c) No return to the 'office' planned



**Next Normal:  
Implement & scale strong security  
protocols to enable a hybrid workforce**

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# Enable Hybrid Workers

allowing them to work effectively from anywhere without compromising security

**Store and manage privileged credentials centrally**

**Privileged Account & Session management**



**Efficiently limit and monitor access to systems, applications & privileges**

**Secure Remote Access & Privilege Management**



**Mitigate the risk of Shadow IT & Insecure Tool Usage**

**Consolidate to a single, secure & scalable remote access solution**



**Monitor for Audit & Compliance**

**Integrated solutions, centralized management, session recording**



**RECOMMENDATION**

**SOLUTION**





# Take Control of Credentials

Store and manage privileged credentials centrally

- **Automate discovery and management** of privileged accounts
- **Sessions are automatically managed** by the remote access solution
- **Role and attribute-based access** enable the correct privileged credentials to be automatically injected into the session
- **No privileged credentials**, need to leave the organization, and be typed in
- **Credential rotation** can be automated, including after every use to limit



# Reduce the Attack Surface

Replace “All Or Nothing” Access With Granular Levels Of Permissions

- **Enforce least privilege** by giving users just the right level of access for their roles
  - Includes defining which endpoints users can access, and when
  - Password-less & Just-in-Time Privilege (JIT) management
- **Restrict unapproved protocols** and limit approved sessions to a predefined route
  - Most external users or vendors only need access to very specific systems
- **Consolidate tracking, approval, and auditing** of privileged accounts
  - Review access, usage and management and in one place



# Consolidate Solutions

increase security by minimizing the attack surface whilst enabling productivity

- **Drive Efficiency** - Enable your IT teams, service desk and users to be more efficient, effective and enabled to operate in a more diverse range of situations
- **Maximize Existing Investments** - Utilize out-of-the-box integrations with a ITSM solutions and automate more using APIs and Software Development Kits
- **Reduce Costs** - Eliminate overlapping costs and address the hidden costs of insecure tools and workarounds
- **Achieve Compliance** - Create audit trails, with every session and credential use logged, with a central repository view of remote access activity



# Compliance as an outcome

identify and record the “who, what, where, and when” for access activities

- Compliance requirements are often categorized into three primary purposes: to **protect, control, and audit** the use of IT resources and the sensitive data they contain
- **Secure Remote Access** solutions should include features to enable these requirements:
  - Assign all users a unique ID before allowing them to access critical systems and data and control the addition, deletion and modification of those IDs and credentials.  
(CIS, PCI, NIST, HIPPA, GDPR)
  - Track, control, prevent, and correct the use, assignment, and configuration of administrative privileges on computers, networks, and applications.  
(CIS, PCI, NIST, HIPPA, GDPR)
  - Implement only one primary function per server and enable only necessary service, protocols, daemons etc. as required for the function of the system.  
(PCI, CIS)



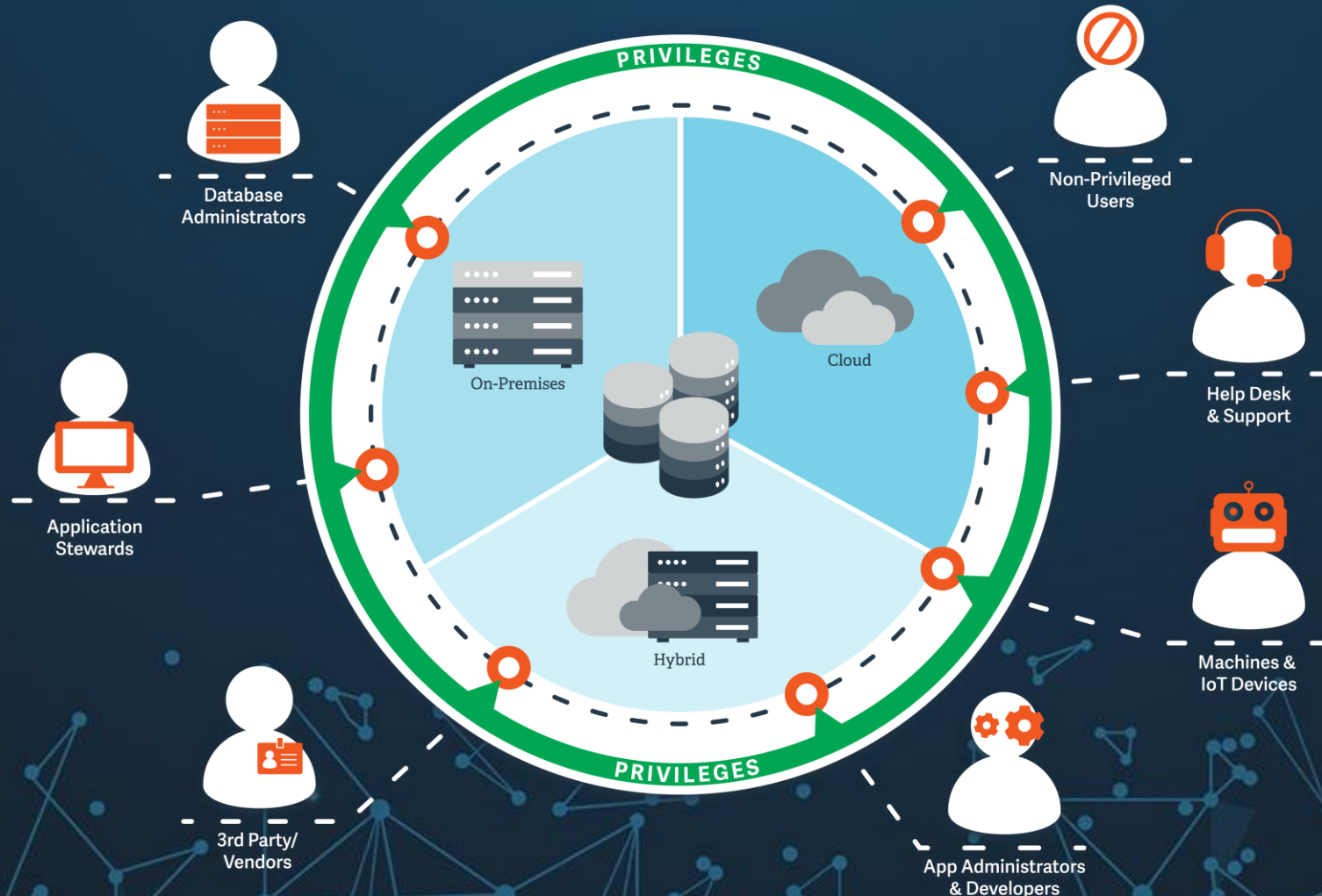


# Universal Privilege Management

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Secure every privilege, every time

# The number of **privileged users** is growing rapidly



# New era brings **new** problems

## How do I...

**?** Discover all privileged accounts across my enterprise?

**?** Eliminate non-essential admin accounts?

**?** Block non-compliant and malicious software?

**?** Know what vendors are doing in my network?

**?** Apply least-privilege best practices?

**?** Integrate privilege controls with change management workflows?

**?** Remove root access from servers?

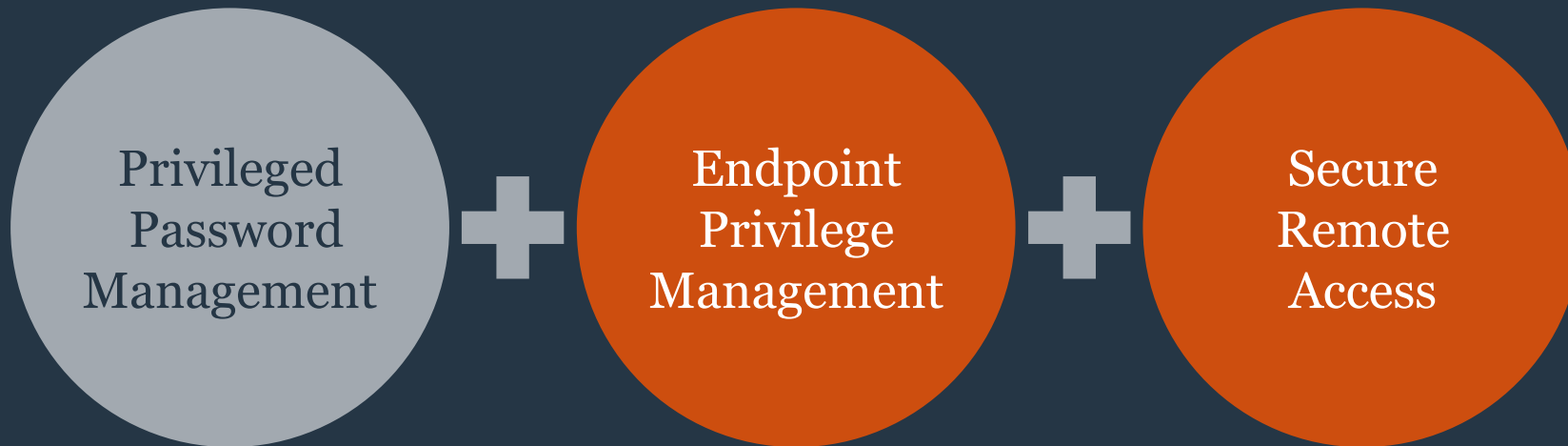
**?** Secure all privileged credentials in my network?

**?** Pass my compliance audits?

**?** Integrate privilege controls with ITSM workflows?

# UNIVERSAL PRIVILEGE MANAGEMENT

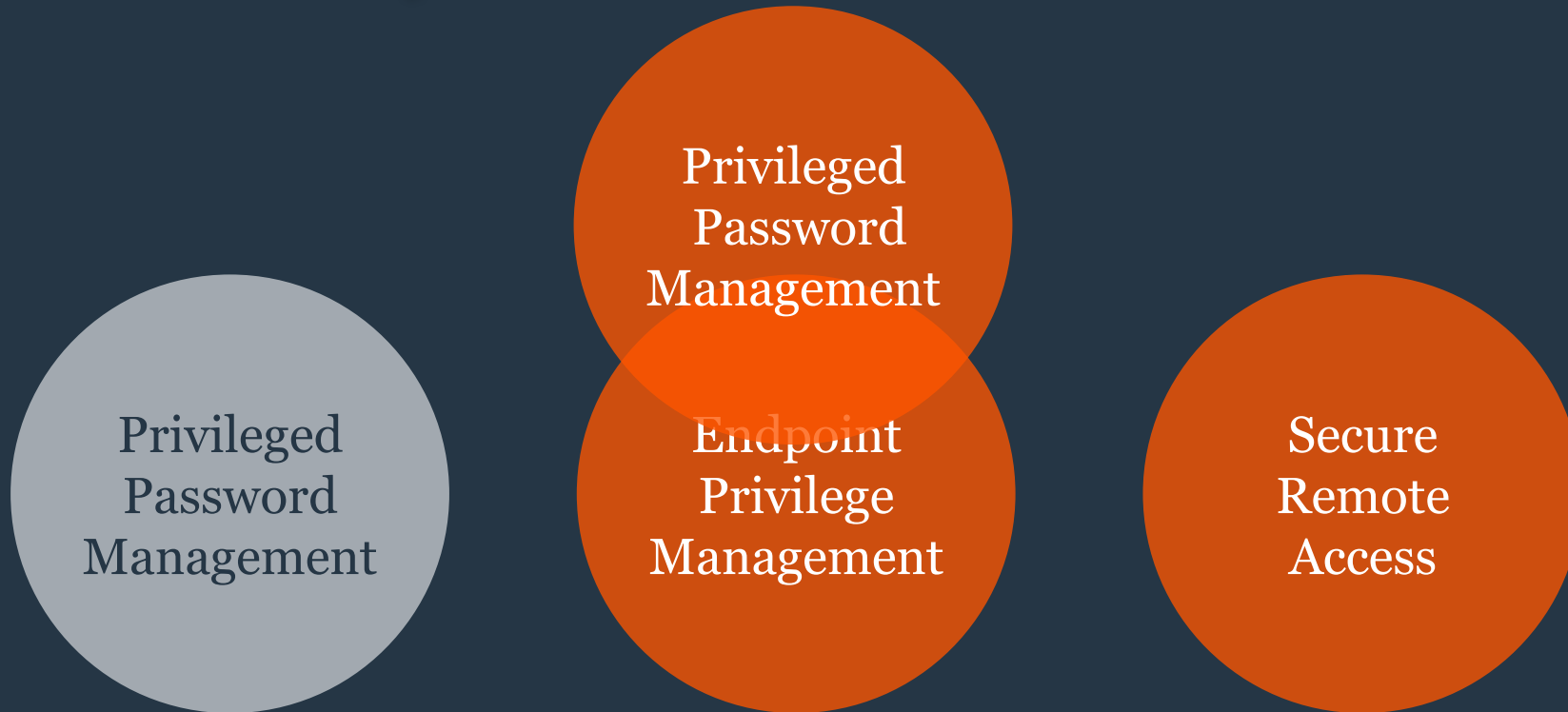
**Secures & manages privileges across every user, session & asset...**





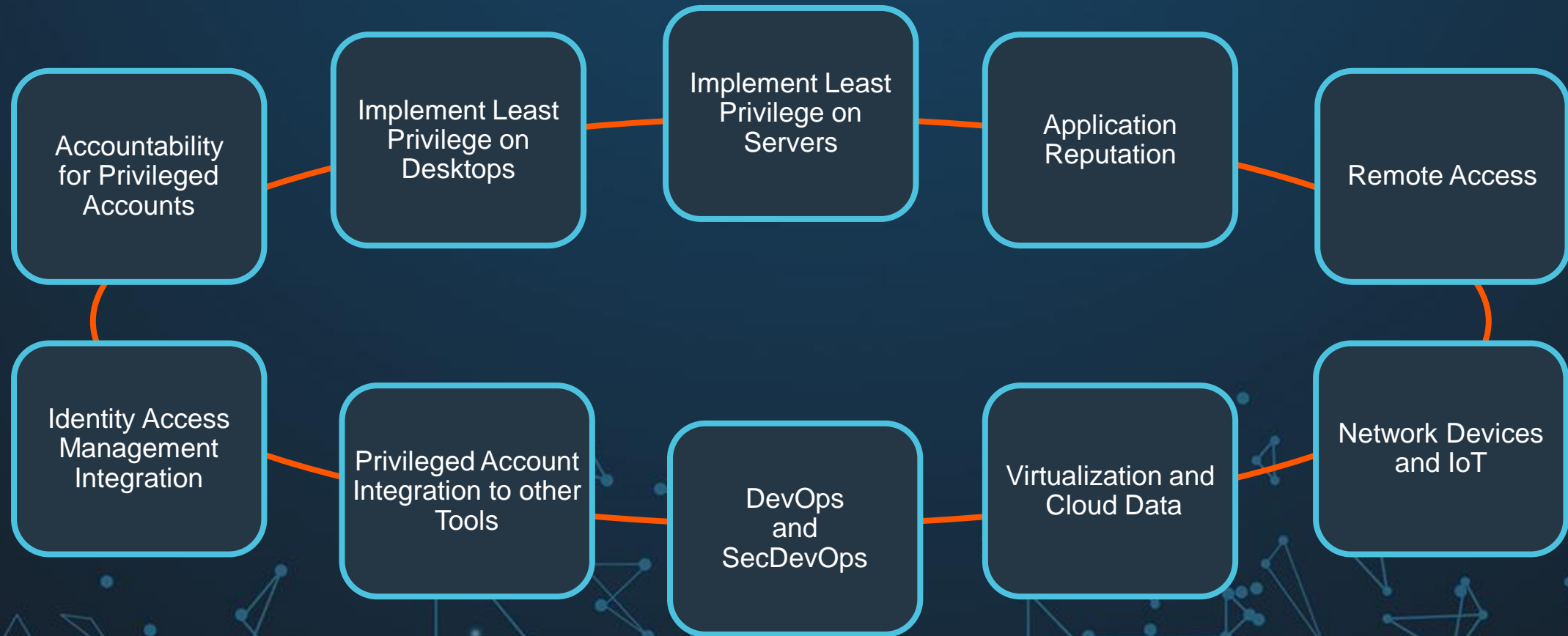
# UNIVERSAL PRIVILEGE MANAGEMENT

And unifies your entire privilege universe  
to drastically reduce the attack surface

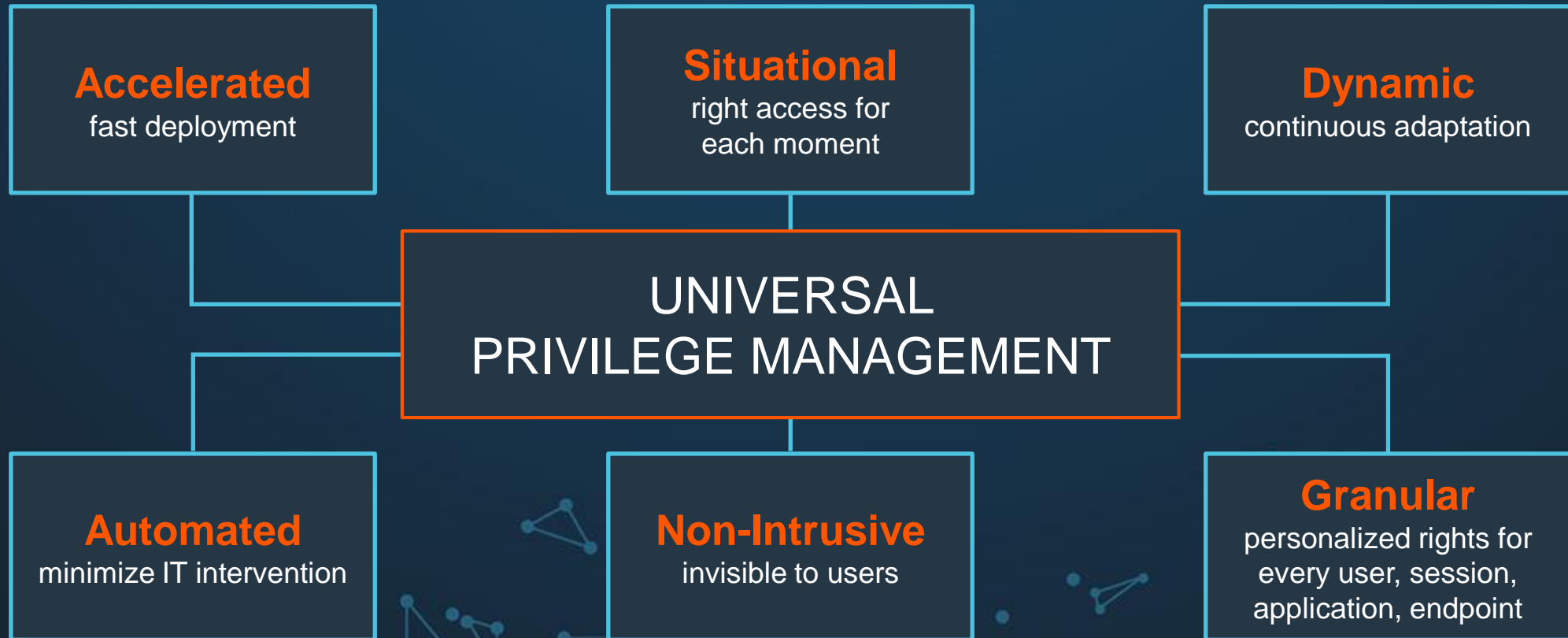


# The Path to Universal Privilege Management

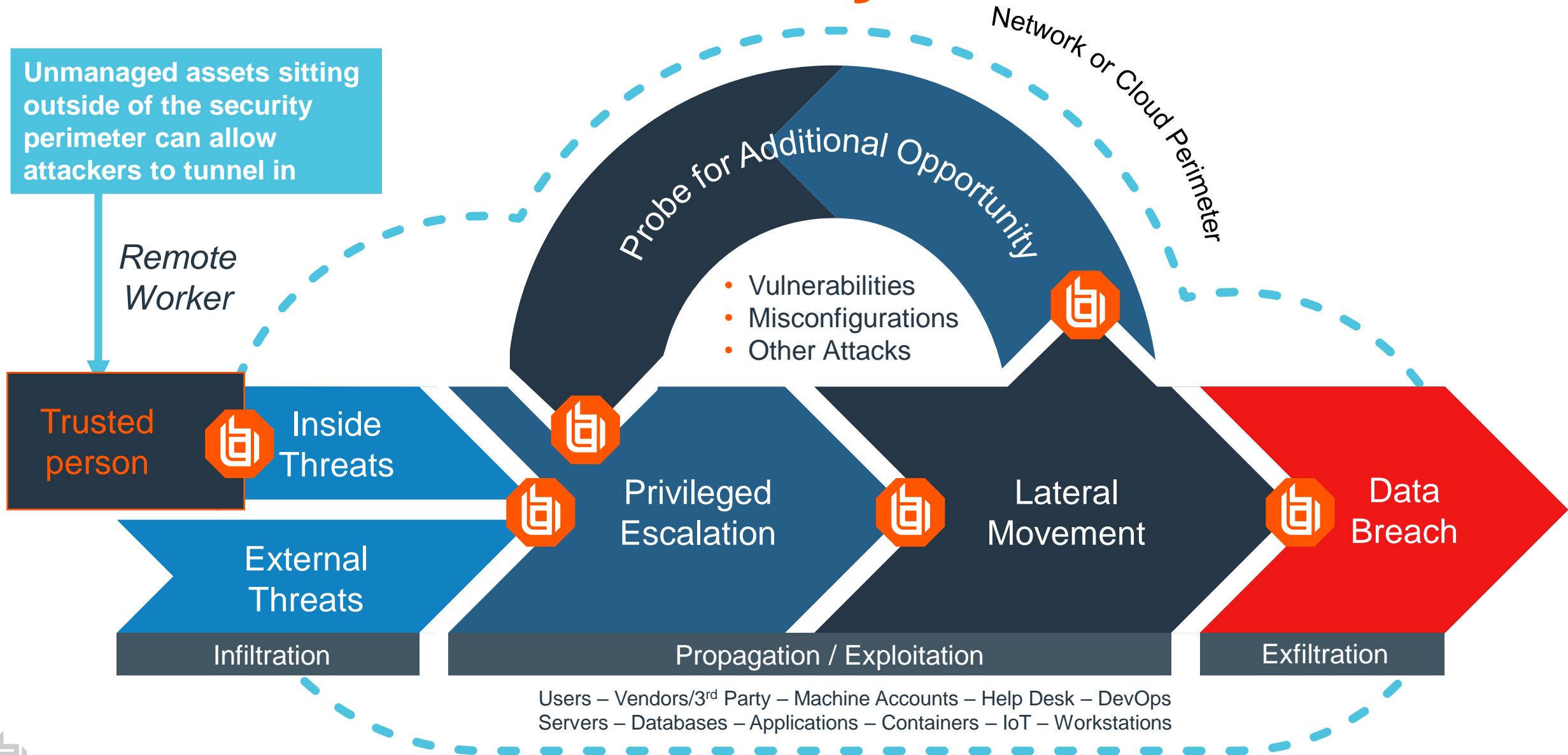
QUICKLY SOLVE FOR A VARIETY OF USE CASES



# Fast Security and Productivity Gains



# The Attack Chain & Hybrid Workers







# BeyondTrust

UNIVERSAL PRIVILEGE MANAGEMENT



# The BeyondTrust Solution

DISCOVERY • THREAT ANALYTICS • REPORTING • CONNECTORS • CENTRAL POLICY & MANAGEMENT



## PRIVILEGED PASSWORD MANAGEMENT

Discover, manage, audit, and monitor privileged accounts and sessions of all types



## ENDPOINT PRIVILEGE MANAGEMENT

Remove excessive end user privileges on Windows, Mac, Unix, Linux and network devices



## SECURE REMOTE ACCESS

Secure, manage, and audit remote privileged access sessions for vendors, admins and the service desk



## BEYONDINSIGHT PLATFORM

Maximize visibility, simplify deployment, automate tasks, improve security and reduce privilege-related risks with the industry's most innovative and comprehensive privileged access management platform

ON-PREMISE

CLOUD

HYBRID



# Thank You & Questions

