



ERP Security 101: 5 Things Every Leader & Organization Should Be Doing to Secure ERP

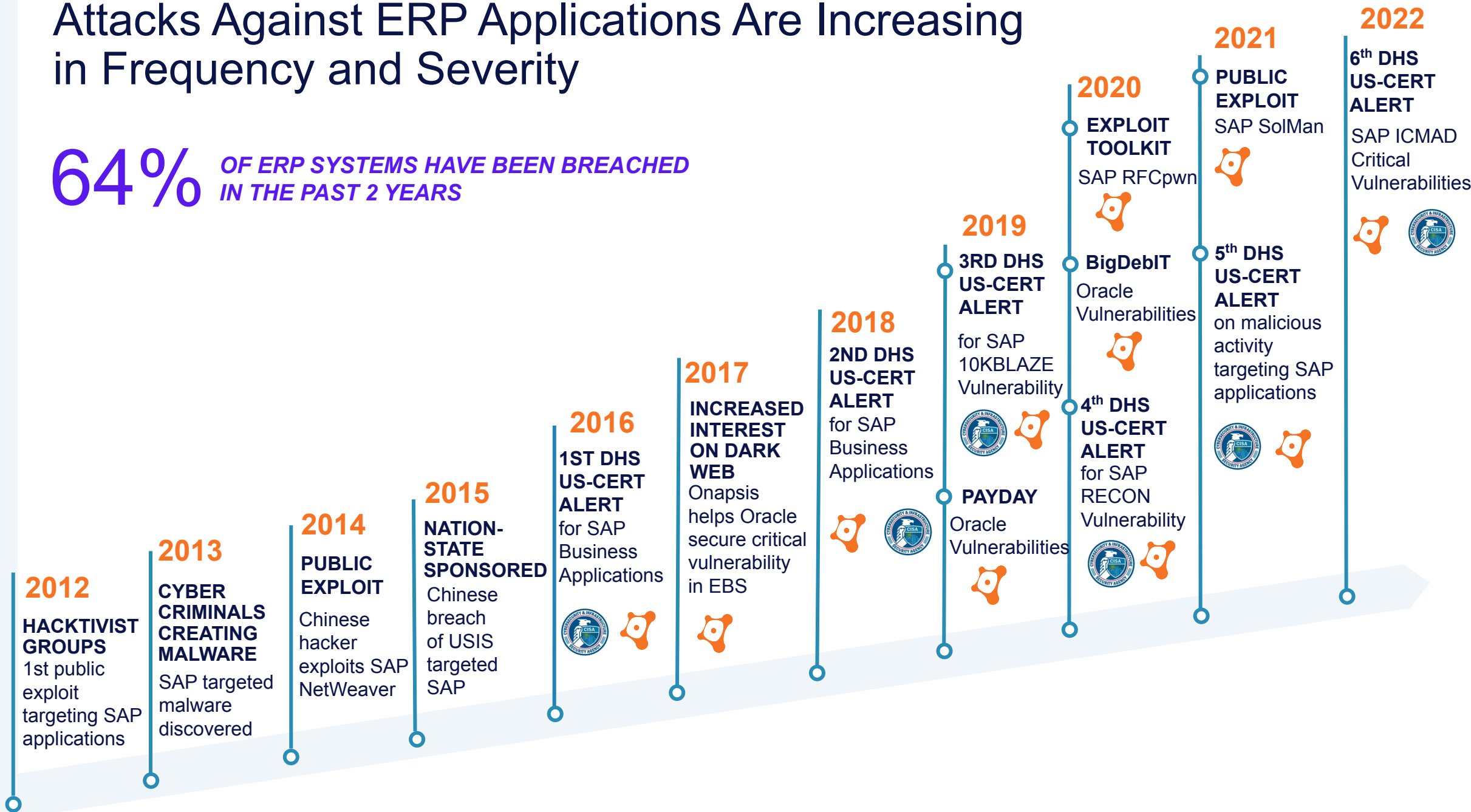
Alex Horan | VP Product





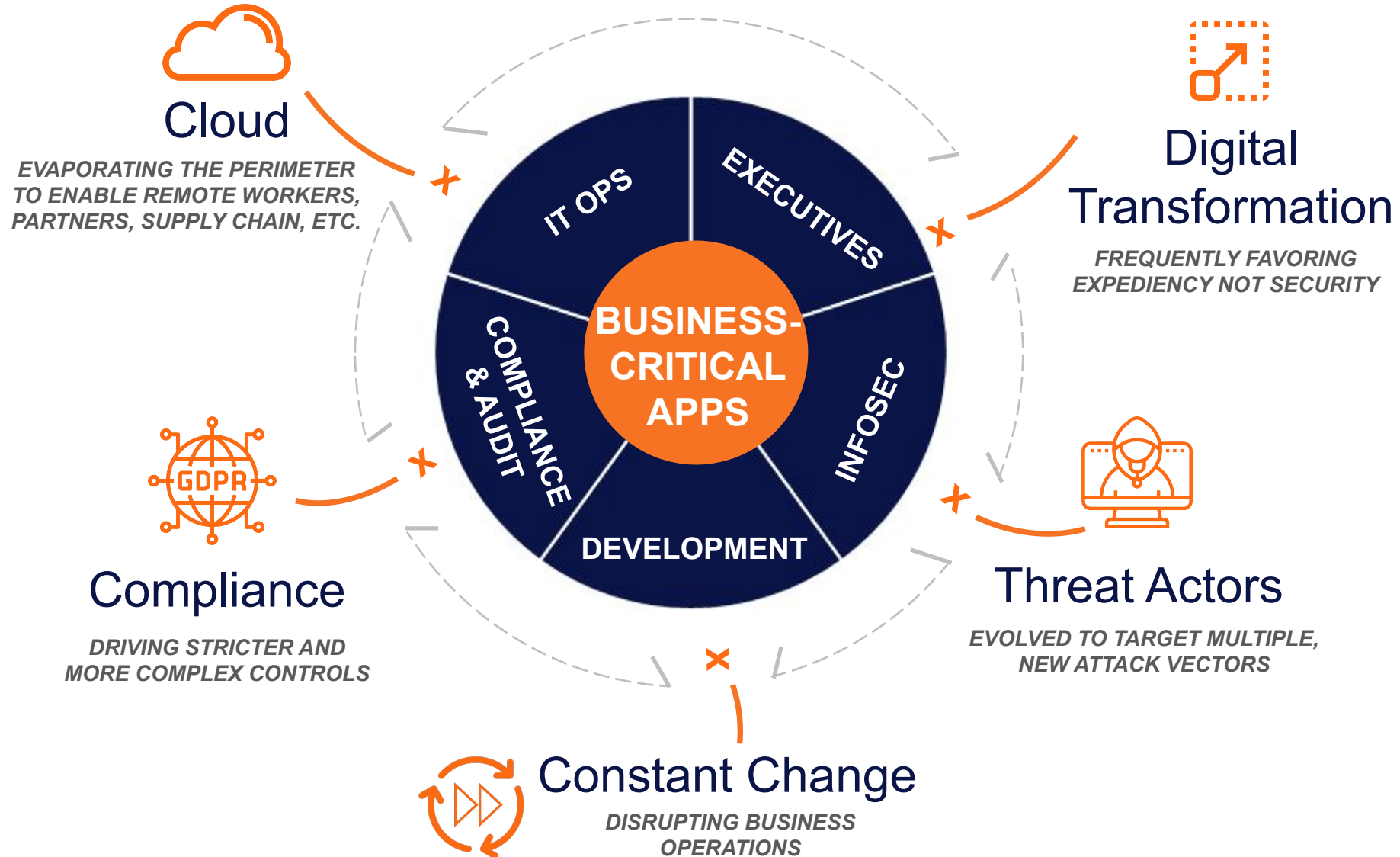
Attacks Against ERP Applications Are Increasing in Frequency and Severity

64% OF ERP SYSTEMS HAVE BEEN BREACHED IN THE PAST 2 YEARS



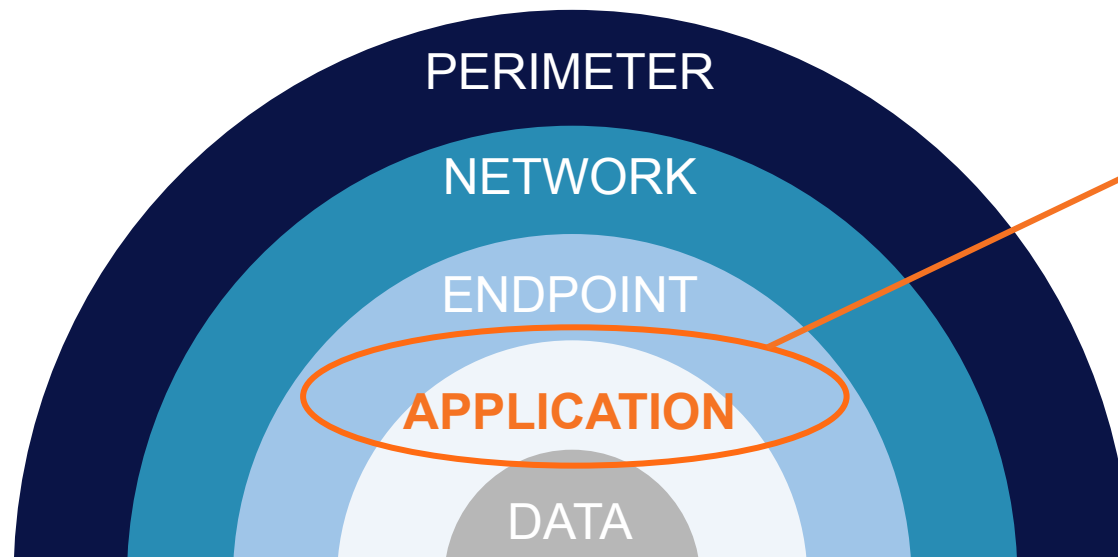


Modern Enterprises Are Facing a Perfect Storm of Complexity...





...And Are Overly Reliant on **Traditional Defense-in-Depth** Models That Surround But Don't Secure ERP Systems



- **Attacks on the application layer** are the #1 concern of CIOs, YoY
- **Over 70%** say their application portfolio has become **more vulnerable** in the past year
- Almost **two-thirds of organizations** have a **backlog** of app vulnerabilities



This Means We May Have a Gap with Understanding The **True Risk** to Our ERP Systems...and Our Organization

Vulnerabilities?

- ERP systems are frequently managed by other teams, with little to no visibility for InfoSec
- More processes moving to SaaS applications
- Increasing reliance on code or apps developed by contracted third-parties

Threat Monitoring?

- No meaningful monitoring of ERP, with little to no visibility for the SOC
- Reliance on manual log reviews to identify threat activity in ERPs
- No ability to establish compensating controls

Code Security?

- Security is frequently “bolt on” and not “built in”
- Reliance on manual code reviews
- Problems aren’t identified until they hit production



What Happens If You Don't Fix This?

Data Loss or Breach

74% Of breaches involved access to privileged account¹

28% Of breaches are due to missing application patches²

System Outages

52% Of security events caused operational outage that affected productivity³

over \$50k/hour Average cost of ERP application downtime⁴

Compliance Findings

\$5M Average yearly cost of business disruption due to non-compliance⁵

\$2M Average yearly cost of fines and penalties due to non-compliance⁵

Project Delays

52% Of cloud migrations are delayed due to security concerns⁶

Reputation Damage

7.3% Average decrease in stock price following a security breach⁷

¹Centrify

²DarkReading

³Fortinet

⁴Onapsis

⁵Ascent

⁶TechRepublic

⁷Forbes



Some Questions to Ask Yourself...

- ❑ Do you have a true understanding of your real risk profile for your organization?
- ❑ Are you getting any / the right visibility into your ERP applications, such as SAP or Oracle, to help you manage risk and secure the business?
- ❑ Does your organization's security team have the right resources who can understand "the language of ERPs"?
- ❑ Has continuous monitoring of threats (both internal and external) in the ERP application been properly established?
- ❑ Have you determined what tools should be implemented to monitor specific financial reporting systems?
- ❑ Do you have a schedule for reviewing and implementing critical security patches for your ERP applications?
- ❑ Are cybersecurity controls established for the customized code used in ERP applications for reporting?
- ❑ Is there mapping in place for key cybersecurity controls to regulation frameworks (e.g., SOX, PCI, GDPR)?
- ❑ Are Audit, InfoSec and IT teams able to continually assess and test these controls to provide the right level of assurance?



...And Five Things To Do Today



1

Treat Business-Critical Apps Like OT Critical Infrastructure

2

Timely Patch Management

3

Continuous Monitoring of Vulnerabilities and Threats to Your ERP Applications

4

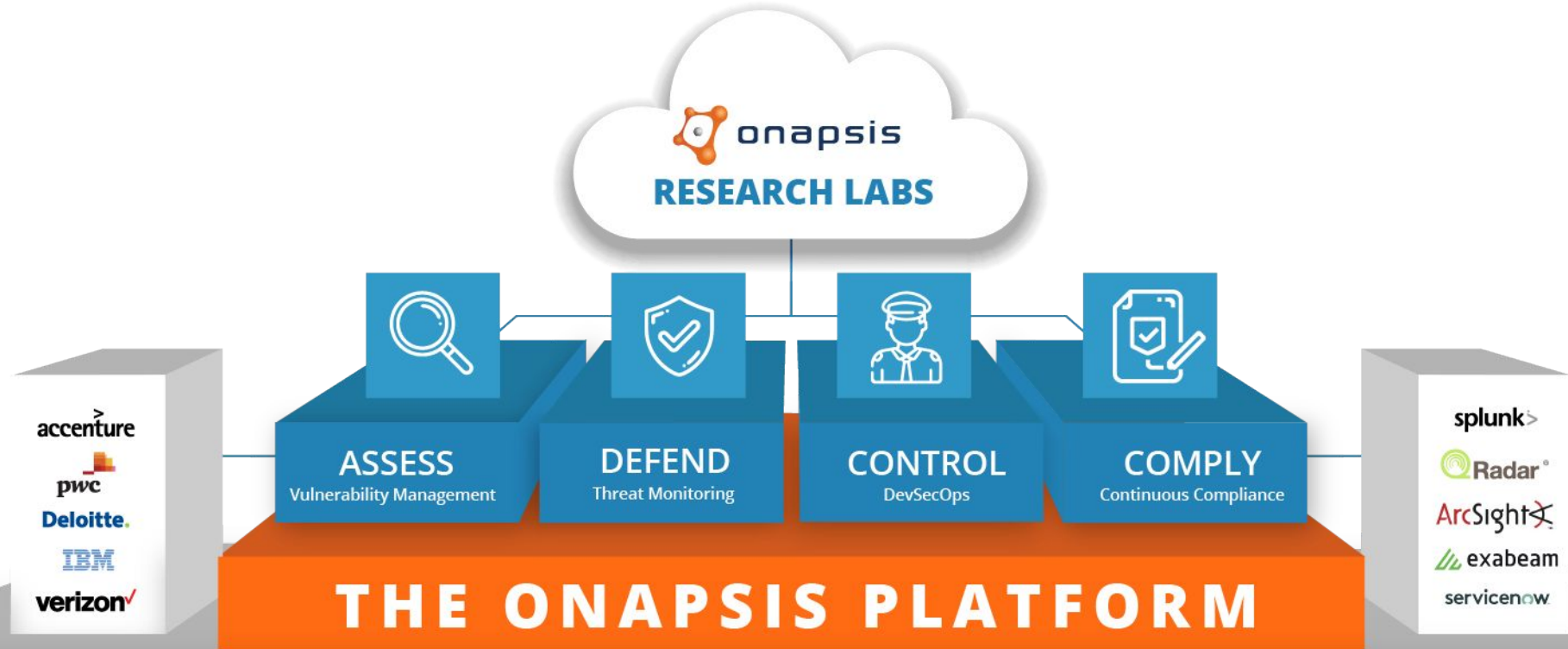
Secure Your Custom Code in ERP Applications

5

Commit to Control and Governance



The Onapsis Platform - Visibility and Tools To Protect Your ERP



“Prior to using Onapsis, we were **prioritizing simple fixes and ignoring critical vulnerabilities**, of which we identified 600 in 2018. Since we started using Onapsis, we’ve **remediated 90% of those critical vulnerabilities**, and 70% of the 10,000+ total we initially discovered.” - *F100 Biotech*



“Saves time identifying, prioritizing, and remediating security vulnerabilities. **Enables security generalists** to ensure Basis is properly maintaining SAP systems.” – *F100 Tech Manufacturer*



Stay Ahead of the Threats With The World's Leading Researchers

ONAPSIS RESEARCH LABS

- Onapsis products automatically updated with latest threat intel and security guidance
- Receive advanced notification on critical issues and improved configurations
- Get pre-patch protection ahead of scheduled vendor updates

Discovered

800+

zero-day vulnerabilities in business-critical apps



25%

Of critical SAP Security Notes in 2021 were influenced by Onapsis Research Labs

6

US DHS critical alerts based on our research



17

Patents, 8 issued & 9 pending



Knowledgebase of

10,000+

vulnerabilities and attacks on business applications



Fortune 500 Utility Company

COMPANY

2K Employees

\$2B revenue

INDUSTRY

Energy



Onapsis removes the mystery around SAP security by increasing visibility. We can see ...misconfigurations, missing patches or unusual user activity - what risk they post and how to fix them

- CISO

CHALLENGE: A labor intensive patch and vulnerability management process created visibility and security gaps within SAP for a small team

SOLUTION: Onapsis Assess and Defend to scan and continuously monitor its SAP environment for vulnerabilities, misconfigurations, missed patches, and new threats.

RESULT: Gained visibility into SAP, including activity of third party contractors; streamlined and automated the patch and vulnerability management process, allowing the team to scale and refocus

Thank You!

@onapsis

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