

Managing SAP Application Risk: Before, During and After the SAP Digital Transformation



Roger Egle – Strategic Account Manager for Western Canada



## What is your SAP Transformation journey?

#### Choose your adventure...(or maybe you already have)

#### **Green Field**

Start from the beginning and use SAP best practices

#### **Brown Field**

Lift and shift to a Hyperscaler to gain operational efficiency

#### "Rainbow" Field

Parts of Green, Brown and every color of the rainbow to meet business requirements

#### **Project Delays**

52% Of cloud migrations are delayed due to security concerns<sup>1</sup>

#### Reputation Damage

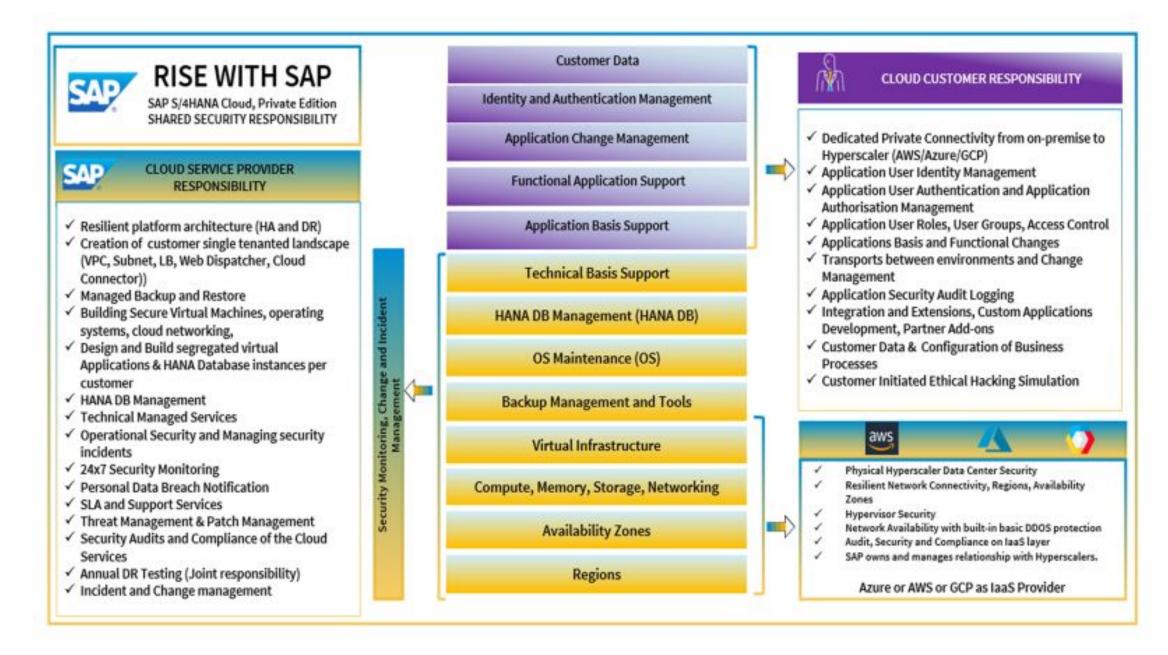
7.3% Average decrease in stock price following a security breach<sup>2</sup>

#### **Financial Ramifications**

Average yearly cost of fines and penalties due to non-compliance<sup>5</sup>



### RISE with SAP: Shared Security Responsibility for SAP Cloud Services





## Attacks Against ERP Applications Are Increasing in Frequency and Severity

OF ERP SYSTEMS HAVE BEEN BREACHED IN THE PAST 2 YEARS

2019

**3RD DHS US-CERT ALERT** 

for SAP 10KBLAZE Vulnerability

**PAYDAY** Oracle Vulnerabilities

Vulnerability

**PUBLIC EXPLOIT** 

SAP SolMan



5<sup>th</sup> DHS

**US-CERT ALERT** on malicious activity targeting SAP applications





2012

**HACKTIVIST GROUPS** 

1st public exploit targeting SAP applications

2013

**CYBER CRIMINALS CREATING MALWARE** 

SAP targeted malware discovered

2014

**PUBLIC EXPLOIT** 

Chinese hacker exploits SAP NetWeaver

2015

**NATION-**STATE **SPONSORED** 

Chinese breach of USIS targeted SAP



2016

1ST DHS

**US-CERT** 

**ALERT** 

for SAP









2017

**WEB** 

**Onapsis** 

**INCREASED** 

**INTEREST** 

**ON DARK** 

helps Oracle

secure critical

vulnerability



2018

2ND DHS

**US-CERT** 

**ALERT** 

for SAP

Business

**Applications** 









2020

**EXPLOIT** 

**TOOLKIT** 

**BiqDebIT** 

**Vulnerabilities** 

Oracle

4<sup>th</sup> DHS

**US-CERT** 

**ALERT** 

for SAP

**RECON** 

SAP RFCpwn

0

2021

6th DHS **US-CERT ALERT** 

2022

SAP ICMAD Critical Vulnerabilities









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

#### **Code Optimization?**

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

#### **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

#### **Vulnerabilties?**

- 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



## ...And Five Things To Do Today





# Our Customers Approach and 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





## Onapsis Quantitative / ROI Benefits (Code Review)

- A medium detailed ABAP code review will require approximately 1 senior developer for every 4–8 developers;
   With "Control for Code", you can automate these reviews and the communication with the developers saving 70% 90% of the reviewing man-power while significantly improving the accuracy, especially close to project milestones, where high work-load is typical
- In short, "Control for Code" can automate the code review effort by approximately 80% while increasing accuracy significantly
- By providing immediate code review capabilities to each developer, "Control for Code" can reduce the
  reaction time between code development and code improvement from several days to a few seconds; This
  increases developer productivity and reduces time for unit-tests and time from development requests to
  delivery, especially in case of smaller objects such as reports
- In short, "Control for Code" helps to increase developer efficiency by 20%-40% and reduces delivery time for minor developments from weeks to days
- Simple math example #1 : 30% of Developer ~150K = 45K savings per developer
- Simple math example #2 : 80% of Sr. Developer ~200K = 160K savings per year



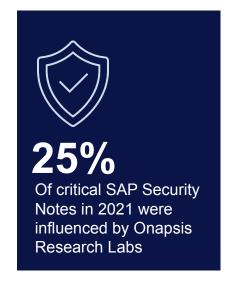


# STAY AHEAD OF EVER-EVOLVING CYBERSECURITY THREATS WITH THE WORLD'S LEADING THREAT RESEARCH ON BUSINESS-CRITICAL APPLICATIONS

**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



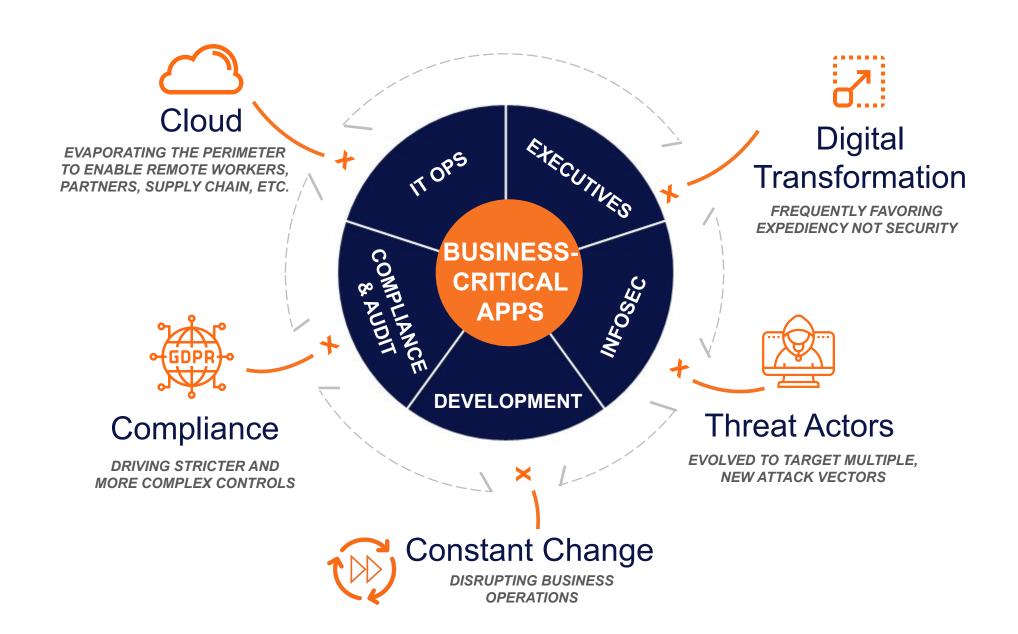








## Modern Enterprises Are Facing a Perfect Storm of Complexity...



# Onapsis Quantitative / ROI Benefits (Vulnerability and Compliance Management)

- Reduce amount of SAP security/basis/support, development, and audit resources procured from third-parties or in SOWs
- Vulnerability module: Automation of security note patch management every SAP Patch Tuesday (Which SAP security notes are applicable to Sompo and what priority do they receive?) This manual, human error-laden process can take 1-4 weeks or longer according to our customers; Automating the vulnerability Management review process decreases the time from weeks to minutes with the click of a button
- Simple math example #3: ~ 12 weeks of SAP Basis ~150K = 37.5K savings per Basis
- Compliance module: Automation of manual testing procedures for ITGC compliance reporting (Transitioning from gathering screenshots, spreadsheets, and table data for SOX and security audits of SAP; can take several hours per external audit season or per quarter for SAP Basis/security to gather this info for internal and external audit, which takes away their time for other projects, and is manual with human error, so there could be deficiencies or weaknesses in financial statements)
- Specific customer example saves them 1,000 hours annually by automating the above processes
- Simple math example #4: ~1000 hours = ½ FTE = ~150K \*50% = 75K savings per year

#### **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

## Fortune 500 Utility Company (Lets

conclude with two real customer stories)

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

linkedin.com/company/onapsis

**ONAPSIS.COM** 

