

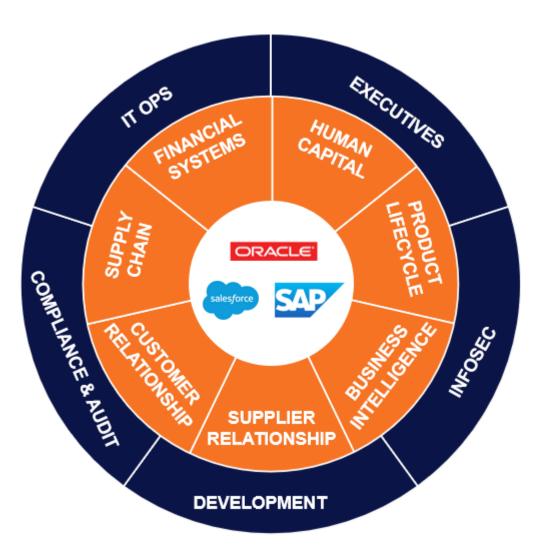
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The Threat Landscape is Transforming: Understand The Importance of Business-Critical Application Protection

Matt Haentzschel | Account Manager

Brenda King | Engineer

# **BUSINESS-CRITICAL APPLICATIONS POWER YOUR BUSINESS**



of the Global 2000 92% of the Global 2000 use SAP or Oracle<sup>1</sup>

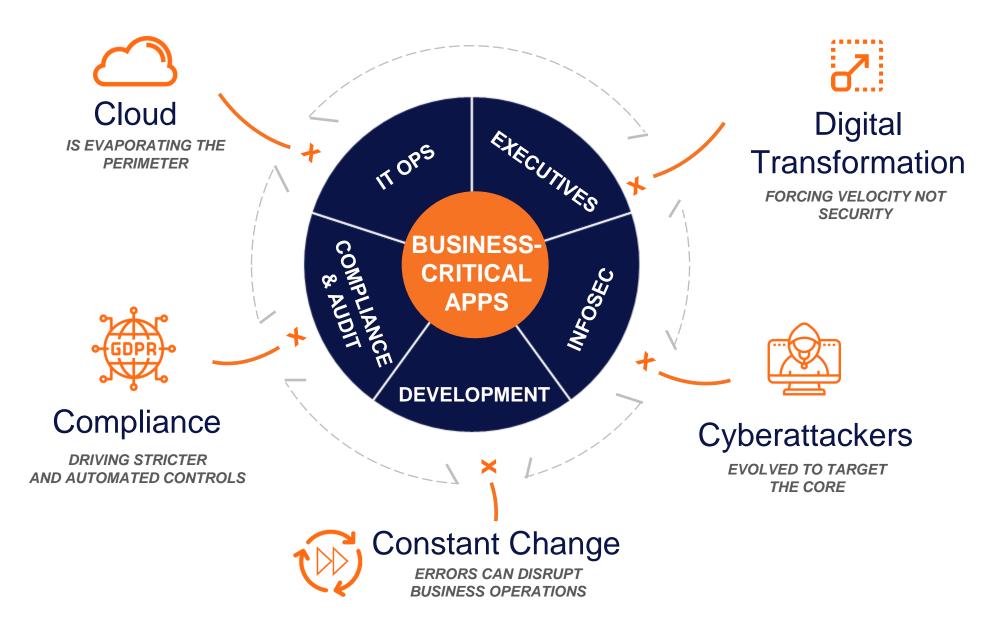
77%

of the world's revenue touches these systems<sup>2</sup>

1 in 5

enterprise applications are SaaS-based<sup>3</sup>

# BUT, WE'RE FACING A PERFECT STORM OF COMPLEXITY



### AND ATTACKS ON BUSINESS-CRITICAL APPLICATIONS ARE INCREASING

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



ON MALICIOUS CYBER ACTIVITY OR VULNERABILITIES IN BUSINESS CRITICAL APPLICATIONS

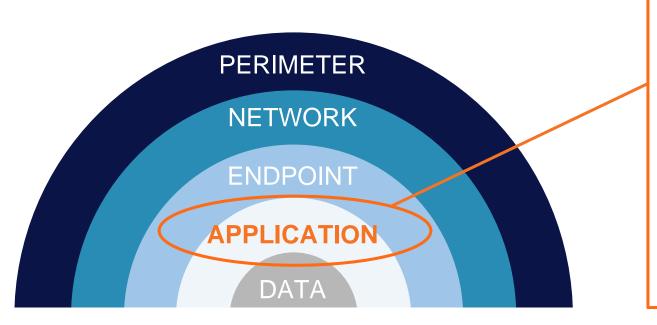




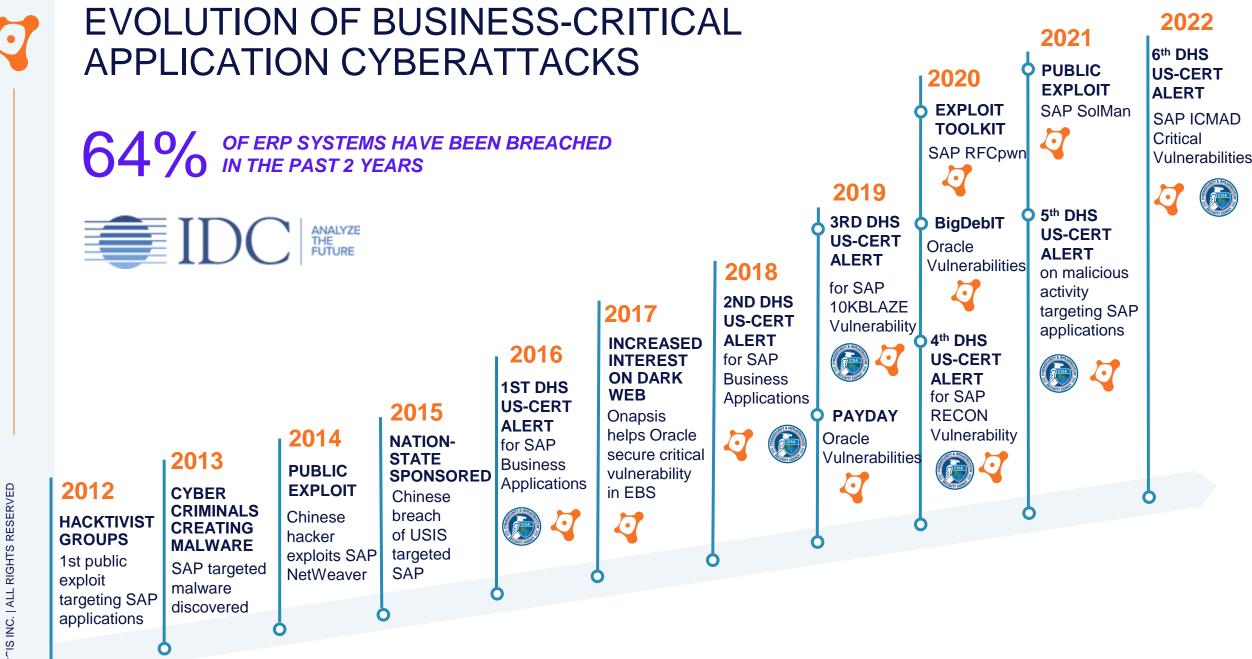
ANALYZE THE FUTURE

## WHY AREN'T TYPICAL SECURITY EFFORTS EFFECTIVE HERE?

Defense-in-Depth Models Surround but Ultimately Neglect That Critical Application Layer.



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



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

- 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



40%

Of critical SAP Security Notes in 2020 were

influenced by Onapsis

Research Labs

5 US DHS critical alerts based on our research





Knowledgebase of **10,000+** 

vulnerabilities and attacks on business applications



#### Threat Intelligence from Onapsis and SAP

### THREAT ACTORS ARE MORE SOPHISTICATED...



# ...AND THE WINDOW TO DEFEND IS SHRINKING

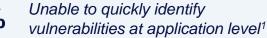


Data based on direct observation of threat activity against OTIC, upon unmarked systems becoming online. Data is not based on exploitation on SAP customers' environments.

### THIS MEANS BUSINESS-CRITICAL APPS ARE EXCLUDED FROM EXISTING CYBERSECURITY PROGRAMS

#### VULNERABILITY MANAGEMENT

- Systems managed by other teams, no visibility for InfoSec
- More processes moving to SaaS applications
- Increasing reliance on third-party developed apps
- 57%





Unable to effectively monitor privileged access<sup>2</sup>

## THREAT DETECTION & RESPONSE

- No continuous monitoring, no visibility for SOC
- Reliance on manual log reviews to identify threat activity
- No ability to establish compensating controls

#### APPLICATION SECURITY TESTING

- Reliance on manual code reviews
- Problems aren't identified until they hit production
- Security is a final check, not built into DevOps process



Unable to monitor & prevent attacks at application level<sup>1</sup>



Do not build security features into app development<sup>1</sup>

<sup>1</sup>https://www.cpomagazine.com/cyber-security/application-security-backsliding-over-70-of-organizations-say-their-portfolio-is-more-vulnerable/ <sup>2</sup>https://www.helpnetsecurity.com/2019/10/15/privileged-user-abuse/

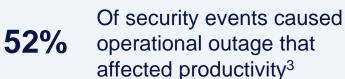
### WHAT HAPPENS IF YOU DON'T FIX THIS?

#### Data Loss or Breach

**74%** Of breaches involved access to privileged account<sup>1</sup>

**28%** Of breaches are due to missing application patches<sup>2</sup>

#### System Outages



#### over

\$50k/

hour

Average cost of ERP application downtime<sup>4</sup>

#### **Compliance Findings**



Average yearly cost of business disruption due to non-compliance<sup>5</sup>



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

#### **Project Delays**

**52%** Of cloud migrations are delayed due to security concerns<sup>6</sup>

#### **Reputation Damage**

**7.3%** Average decrease in stock price following a security breach<sup>7</sup>

<sup>1</sup>Centrify <sup>2</sup>DarkReading <sup>3</sup>Fortinet <sup>4</sup>Onapsis

<sup>5</sup>Ascent <sup>6</sup>TechRepublic <sup>7</sup>Forbes



### THE ONAPSIS PLATFORM | PRODUCTS & FUNCTIONALITY

### $\mathbf{Q}$ ASSESS

Vulnerability Management

- System misconfigurations, missing patches
- Authorization issues, default accounts/roles
- Assess if systems are configured in line with best practices

Integrations with workflow services:

servicenow

#### DEFEND

Continuous Threat Monitoring

- Real-time attack alerts
- Monitor for exploits, user activity / transactions, privilege misuse
- Alert for dangerous program executions

Integrations with SIEMs:

splunk > ArcSight

Radar 🥢 exabeam

### 👗 CONTROL

Application Security Testing & Transport Inspection

- Identify security, compliance, and quality errors in SAP custom code
- Identify SAP transports that would cause import errors, outages, downgrades, security or compliance issues

Integrations with change management and development environments:

SAP ChaRM, TMS, HANA Studio, Eclipse, Web IDE, ABAP development workbench



Continuous Compliance

- Evaluate compliance impact of system vulnerabilities, misconfigurations, patches, authorizations, deployed code (SAP)
- Out-of-the-box & custom policies
- · Evaluate and verify IT controls

Integrations with compliance automation solutions:



**MANAGEMENT FUNCTIONALITY** 

Reporting & Analysis

Ticketing/SOC Integration Scheduling & Workflows

Asset Discovery

Users & Role Management



### ONAPSIS HIGHLIGHTS





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#### PROTECT YOUR BUSINESS-CRITICAL APPS. PROTECT YOUR BUSINESS.

#### **ASSESS |** VULNERABILITY & SECURITY POSTURE MANAGEMENT

- **Visibility** into vulnerabilities, misconfigurations and security posture
- Understand risk and business impact
- Manage issues with built-in workflows and integrations with external ticketing systems

### servicenow

- Streamline remediation with detailed step-by-step technical solutions
- **Report** on vulnerability and security posture over time via dashboards and exportable exec summaries

60% Decrease in remediation efforts

75% Issue investigation time eliminated due to low false positive rate

95% Less time identifying and investigating vs manual efforts

60% Time saved preparing executive reports

80% Time saved scheduling patches with built-in prioritization

- **Respond** quickly to active threats via detailed alarm
- **Analyze Root Cause** by sending threat information to SIEMs and correlating with other system logs

Azure Senting

splunk > ArcSight

### **Continuous monitoring** and real-time alerts for over 3,000+ threat indicators

- **Prioritize** alerts based on stakeholder risk posture and/or systems

75% Improved incident response times

**50%** Reduced forensic investigation time

**100%** SAP log forwarding enables correlation with other logs

•

notifications



#### **CONTROL FOR CODE | SAP APPLICATION SECURITY TESTING**

- **Identify** security, compliance, and quality issues in "realtime" or in batches before release
- **Understand** business risk and criticality
- Manage issues via built-in approval workflows
- **Resolve** with detailed step-by-step remediation guidance
- Mass correction services available to automate the fix of bulk issues

25x	Faster than manual review processes					
1 minute	Scan up to 150,000 lines of code					
<5%	False positive rate					
75%	Reduction in errors making it into production					
50 - 80%	Common findings automatically fixed with optional service					

#### **CONTROL FOR TRANSPORT | SAP TRANSPORT INSPECTION**

- **Comprehensive inspection** of all SAP transports (including third-party)
- **Resolve** with detailed step-by-step remediation guidance
- **Integrate** with existing change and transport management systems
- **Prevent** import errors, business outages, downgrades, security vulnerabilities, and compliance violations
- **Protect** sensitive data from manipulation and espionage

100% Automated transport inspection lifts the burden of a manual review process

75% Reduction of unexpected outages

100% Visibility into 3rd party transports without importing into SAP

462

Saved per system per year on Hours investigating and fixing transport errors

\$35K Saved per system per year by eliminating import errors in production

#### **COMPLY** | AUTOMATED COMPLIANCE TESTING & VERIFICATION

- Automate evidence collection to prepare for internal/external audits
- Automate testing and validation of IT controls against customizable policies
- **Prioritize** issues based upon criticality and compliance impact ۲
- **Understand** effectiveness of IT controls and business impact ۲ of identified issues
- ۲ **Continuously assess** to proactively measure risk, stay ahead of audit cycle, and maintain compliance
- **Avoid** deficiencies and material findings ۲

92% Of tasks associated with controls testing can be automated

90% Reduction in time spent testing IT controls

\$100K Saved per year compared to manual audit processes

#### **ONAPSIS** RESEARCH LABS

Stay ahead of ever-evolving cybersecurity threats with the world's leading threat research on mission-critical SAP applications

1000 SAP SECURITY NOTES 750 500 250 0 2012 2013 2014 2016 2017 2018 2019 2001 2008 2009 2010 2011 2015 2020 **Onapsis founded** Onapsis Influence on 2020 SAP Security Notes **Onapsis researchers 1st 40%** of critical notes to present on SAP security at Black Hat **18%** of all notes

Discovered **800+** zero-day vulnerabilities in mission-critical applications

Mitigated 60% of SAP HANA unpatched vulnerabilities

#### Created

14

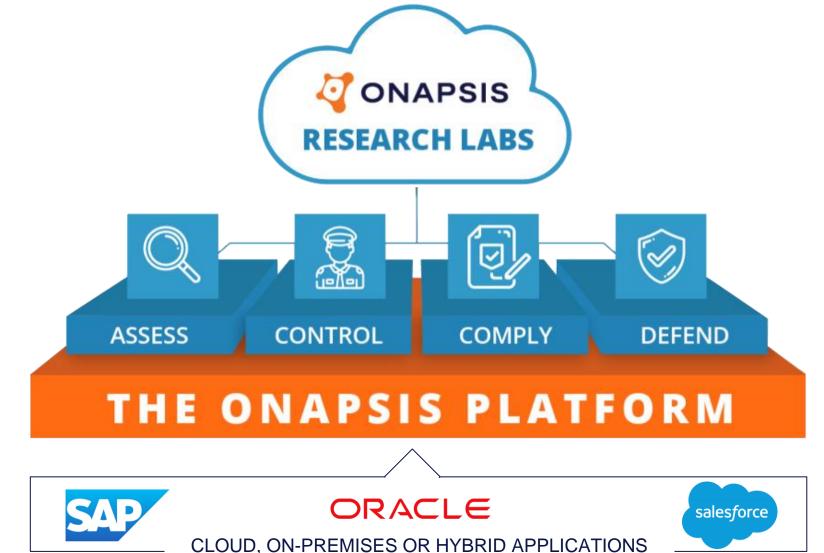
out-of-the-box compliance policies for The Onapsis Platform, plus ability to customize

#### Database of

350+

test cases for performance, robustness, maintainability, security and compliance issues in SAP code and transports

# ONAPSIS GIVES YOU THE VISIBILITY AND TOOLS YOU NEED TO PROTECT YOUR BUSINESS-CRITICAL APPLICATIONS



### **ONAPSIS PARTNERS** | APPLICATION PROTECTION ECOSYSTEM

