FORTINET

SOLUTION BRIEF

Keeping Life Sciences Safe with Fortinet and SecurityBridge for SAP

Next-gen Application Security for SAP, Integrated Network Security to Secure Transformational Life Sciences

Executive Summary

Fortinet and SecurityBridge partnered to protect Life Sciences organizations with advanced network security and enterprise-critical SAP systems. A bidirectional integration between Fortinet Security Fabric and SecurityBridge application security platform for SAP enables an advanced and high level of security insight, risk rating, and automation—protecting critical systems, data, applications, and intellectual property.

Challenges

Life Sciences companies are witnessing rapid growth and digital transformation, replacing manual processes to distribute global medicines and medical devices, and increasing visibility and compliance tracking of stock. SAP systems are a dominant backbone in enabling Life Sciences companies with the tools to deliver demand-driven supply networks, strategic sourcing and procurement, compliant manufacturing, and trackable R&D and engineering processes.

However, SAP systems are increasingly under attack, partly because they are required to integrate with public-facing networks. These attacks are becoming more sophisticated and more prevalent with vulnerabilities, such as RECON. Many customers rely on SAP to run their production systems, so a breach in security could mean massive liabilities for SAP and the Life Sciences companies.

SecurityBridge and Fortinet address the missing link between network and application security, to introduce speed-to-security and adequate response capabilities defending SAP Life Sciences customers against cyberattacks.

> **The SecurityBridge Platform delivers a holistic solution addressing secure configuration, patch management, custom code vulnerability analysis, real-time threat detection, and security automation, all fully integrated into, and built for, SAP.**

Joint Solution

SecurityBridge, a leader in SAP security, partners with Fortinet, a global leader in broad, integrated, and automated security solutions, to deliver an industry-leading solution addressing security challenges within the SAP landscape. By combining Fortinet and SecurityBridge in an integrated solution, SAP users can, for the first time, be aware of threats targeting their systems, thanks to a 360-degree view of malicious activity. This enables Life Sciences security teams to vigilantly detect and respond to attacks targeting SAP systems, data, and compliance regulated by the FDA.

Joint Solution Benefits

- Fortinet FortiGate Next-Generation Firewall
- SecurityBridge Platform for SAP

Joint Solution Benefits

- Generate a 360-degree view from operations to Life Sciences manufacturing security
- Achieve very high detection rates with advanced intrusion detection capabilities for attacks targeting SAP systems
- Act as an easy-to-use threat detection interface for endpoint forensics; incident creation with direct access to SAP security documentation
- Real-time integration with the FortiGate intrusion prevention system for compliance reporting
- Gain insight into SAP application security with proven technology that is easy to deploy, install, and maintain—Next-Generation Application Security for SAP related to application security, data protection in motion and to the cloud strategy of choice.

Joint Solution Components

SecurityBridge

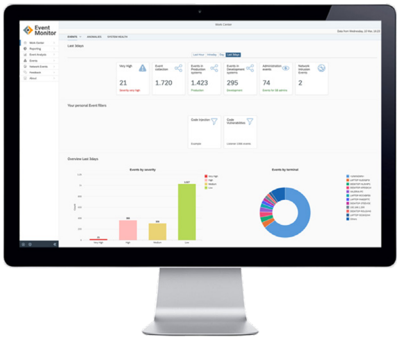
SecurityBridge cybersecurity for SAP provides real-time integration with the Fortinet Security Fabric. This enables an instant link between network events and SAP security events, providing instant visibility and insight, into the entire security posture. This holistic approach provides seamless 360-degree coverage of external and internal threats, with actionable intelligence, so that threats can be remediated before harm is done.

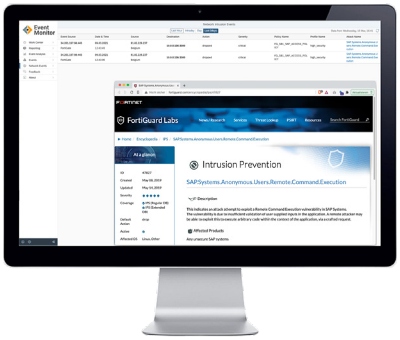
Fortinet Security Fabric

Fortinet FortiGate Next-Generation Firewalls (NGFWs) are an integral part of the Fortinet Security Fabric. They enable security-driven networking, manage and enforce the access layer, WAN, and security, offer customers protection over data, systems, multi-cloud environment, and provide a safeguard over intelligent medical devices. Wherever users or applications are consumed, customers must implement a Zero-Trust Network Access (ZTNA) approach to provide the least access privileges and require strong authentication capabilities, powerful network access control tools, and pervasive application access policies to support the evolution to a multi-cloud future.

Joint Solution Integration

Network events generated by the FortiGate intrusion prevention system are available via an SAP Fiori tile "Network Intrusion Events" (Screen 1). Via drill down, a security analyst accesses the details of the network event, which also links to the FortiGuard Labs Encyclopedia (Screen 2). Via the SecurityBridge investigation functions, a timeline is available, showing all security events across the entire SAP technology stack that may relate to the network attack (Screen 3).





Intrusion Prevention

SAP.Systems.Anonymous.Users.Remote.Command.Execution

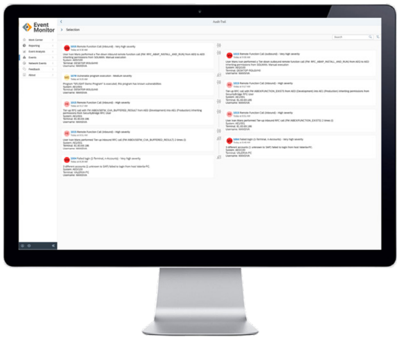
ID	47827
Created	May 08, 2019
Updated	May 14, 2019
Severity	◆◆◆◆◆
Coverage	IPS (Regular DB) IPS (Extended DB)
Default Action	drop
Active	●
Affected OS	Linux, Other

Description

This indicates an attack attempt to exploit a Remote Command Execution vulnerability in SAP Systems. The vulnerability is due to insufficient validation of user supplied inputs in the application. A remote attacker may be able to exploit this to execute arbitrary code within the context of the application, via a crafted request.

Affected Products

Any unsecure SAP systems



Joint Use Cases

Supply Chain Collaboration

Global supply chains in the Life Sciences industry require full, real-time visibility into demand. Securing multiple links with partners, manufacturers, and suppliers enables effective collaboration while providing organizations with a quick and effective response to any detected attacks and the ability to better meet ever-evolving compliance requirements.

Beyond the Pill

Pharmaceuticals are creating new, digitally-driven medical solutions. Using sensors, wearables, and apps, they provide real-time information on patients and conditions, and gamify treatment. These "beyond-the-pill" solutions require a clear understanding of patient risk and a robust system of security measures to mitigate that risk.

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