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Ivanti RS³ Update
Executive Summary

Q2'2022

The first half of Q2 2022 Ivanti Neurons release will feature enhancements to the Ivanti RS³ scoring model to provide you with a greater level of accuracy and actionability. As the cornerstone of prioritization in the Ivanti Neurons platform, Vulnerability Risk Rating (VRR) considers industry standard CVSS data from the NVD, threat intelligence, subject matter expertise, trending information, and more. In other words, VRR is a one-stop-shop for the foundation of your organization's key risk indicators.

Our scoring system is designed to evolve over time in response to real-time threat intelligence. This update to the scoring algorithm enhances the actionability and precision of VRR prioritization by unifying the scoring models and leveraging an enhanced threat surface.

With the release of these modifications, the Ivanti Neurons Platform will uncover risk for scanner plugins with no previously documented threats. Thus, these findings will be pushed to the top of your priority list and allow your organization to address the greatest threats to your security quickly. Additionally, real-time threat intelligence helps organizations target limited resources towards the most critical threats.

A Single Unified Scoring Model

The unified scoring model provides users with a comprehensive view of the finding by incorporating a diversified threat surface. This enhanced threat surface consists of exploits, malware, and weaknesses associated with CVEs (Common Vulnerability and Exposures), CWEs (Common Weaknesses Enumeration), and scanner plugins. Ivanti leverages industry-accepted lists, such as the CWE Top 40 Most Dangerous Software Errors and OWASP (Open Web Application Security Project) Top 10, to provide additional context when no threat is available.
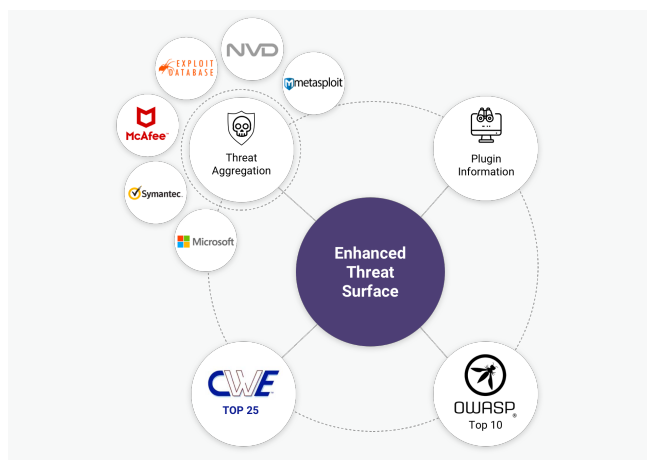
Prioritization Leverages Vulnerability and Weakness Information

When analyzing a given finding, VRR considers the most severe threat factor among all available vulnerability and weakness information and uses an order of priority when assigning the base score. In the example below, where CVSS v3 and v2 are available, version 3 is assigned to the base score variable. **CVE-2017-0144** is a part of WannaCry and has publicly available ransomware. Additionally, Ivanti Neurons maps a weakness to the CVE that falls on the Top 40 Software Errors and the OWASP Top 10. The base score, threat intelligence, and trending information are all factored into the final calculation of VRR.
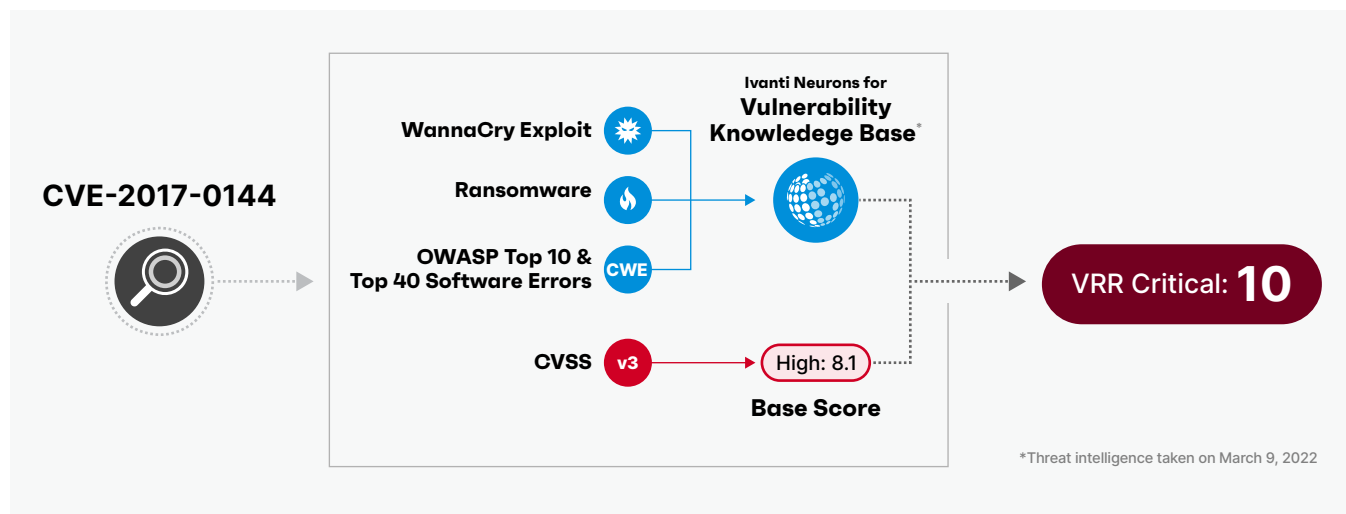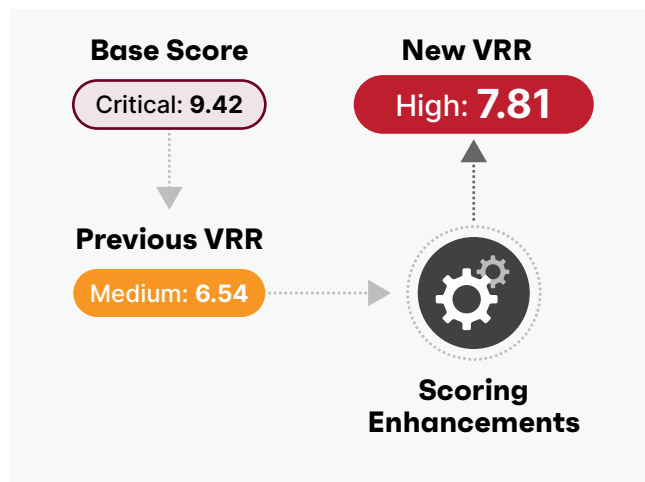
Ivanti-Authored Threats to Plugins without CVE or CWE

Ivanti security analysts have the ability to author threats and associate them with scanner plugins, even when a vulnerability (CVE) or weakness (CWE) is not available. When there is no vulnerability or weakness correlation to a finding, Ivanti will normally de-prioritize VRR by a single VRR group. This feature allows Ivanti security analysts to quickly inform Ivanti customers about recently discovered vulnerabilities and zero-day exploits.
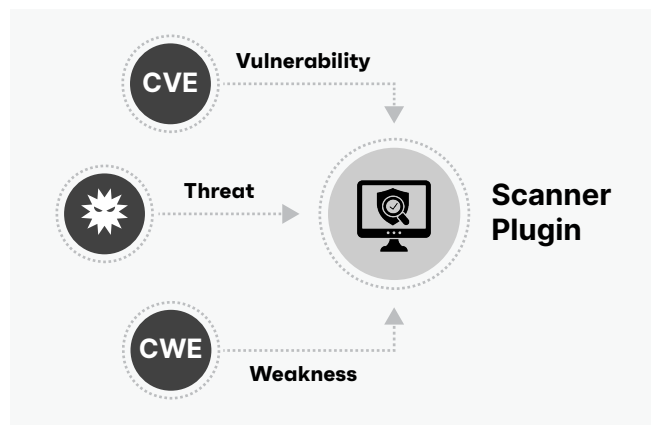
Reduced De-Prioritization

Ivanti has adjusted the VRR scoring model to de-prioritize a maximum of a single VRR Group from the original base score. This update keeps the spotlight on vulnerabilities with a high potential for future exploitation but no publicly available threat. Further, findings with no known threats will only have a decrease of no more than one VRR group from the original CVSS.

CVE — Vulnerability
Threat
CWE — Weakness
→ **Scanner Plugin**

Base Score
Critical: **9.42**

Previous VRR
Medium: **6.54**

New VRR
High: **7.81**

Scoring Enhancements

About Ivanti

Ivanti makes the Everywhere Workplace possible. In the Everywhere Workplace, employees use myriad devices to access IT networks, applications and data to stay productive as they work from anywhere. The Ivanti automation platform connects the company's industry-leading unified endpoint management, zero trust security and enterprise service management solutions, providing a single pane of glass for enterprises to self-heal and self-secure devices, and self-service end users. More than 40,000 customers, including 96 of the Fortune 100, have chosen Ivanti to discover, manage, secure and service their IT assets from cloud to edge, and deliver excellent end user experiences for employees, wherever and however they work. For more information, visit ivanti.com

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