

Palo Alto Networks and SolarWinds

Benefits of the Integration

With SolarWinds Network Insight™ for Palo Alto Networks Next-Generation Firewalls, customers now have access to the following features and capabilities:

- Greater visibility and monitoring of GlobalProtect VPN tunnels
- More efficient policy management, along with configuration details
- Application traffic impact and composition by policy
- Connected device discovery and tracking
- Comprehensive view of the network
- Active configuration management and timely issue troubleshooting

Gain a comprehensive view of your network, actively manage configurations, and troubleshoot any issues with the SolarWinds portfolio of products.

The Challenge

Network management has many facets, making it inherently complex. This is particularly true of complex devices like firewalls, which have become more essential in connecting the distributed enterprise and protecting business-critical traffic traversing the corporate network. The need to monitor and manage these devices has uncovered gaps in the health, operations, and key performance insights available from these devices.

SolarWinds Network Management

SolarWinds is a leading provider of powerful and affordable IT infrastructure management software. Our products give organizations worldwide—regardless of type, size, or IT infrastructure complexity—the power to monitor and manage the performance of their IT environments, whether on-premises, in the cloud, or in hybrid models. SolarWinds Network Insight

is available on SolarWinds Network Performance Monitor (NPM), Network Configuration Manager (NCM), NetFlow Traffic Analyzer (NTA), and User Device Tracker (UDT).

Palo Alto Networks

Palo Alto Networks Next-Generation Firewalls offer a prevention-focused architecture that is easy to deploy and operate. Automation reduces manual effort so your security teams can replace disconnected tools with tightly integrated innovations, focus on what matters, and enforce consistent protection everywhere.

Next-Generation Firewalls inspect all traffic, including all applications, threats, and content, and tie that traffic to the user, regardless of location or device type. The user, application, and content—the elements that run your business—become integral components of your enterprise security policy. As a result, you can align security with your business policies as well as write rules that are easy to understand and maintain.

The Solution

SolarWinds has delivered comprehensive network management and support for Palo Alto Networks Next-Generation Firewalls. The entire lifecycle of management capabilities is covered, which IT administrators use in their daily jobs to effectively setup, maintain, and secure their networks. The lifecycle capabilities include:

- Discovery and inventory of firewall assets
- Configuration and setup
- Fault and event monitoring
- Key performance indicator (KPI) management
- Topology and dependency mapping
- Intelligent alerting based on root cause analysis
- Change and compliance management
- PAN-OS® network firmware management
- Cross-domain correlation
- Reporting and service-level agreement (SLA) management

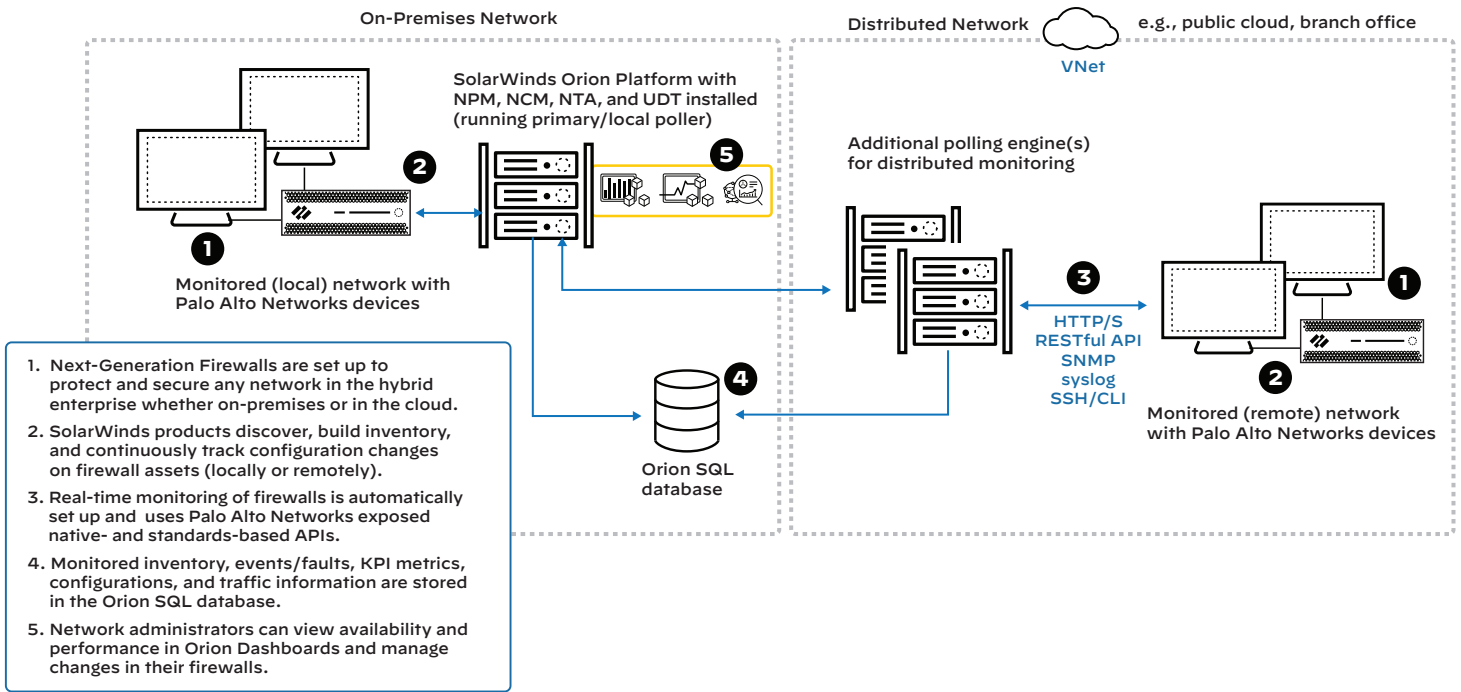


Figure 1: SolarWinds and Palo Alto Networks integration

Integration of SolarWinds Network Insight™ for Palo Alto Networks Next-Generation Firewalls provides deeper visibility into your network policies. The four main integration points correspond to SolarWinds NPM, NCM, NTA, and UDT products, all of which leverage Next-Generation Firewall features, including RESTful API, SNMP, syslog, NetFlow, and CLI.

Use Case No. 1: Greater visibility into GlobalProtect VPN tunnels with NPM

Challenge

The modern enterprise incorporates a distributed workforce and must unify the operations of an exponentially growing number of remote locations together, securely. The management of these connections can be difficult and time consuming.

Answer

SolarWinds NPM automatically discovers and monitors all of your firewall site-to-site VPN tunnels, along with capturing all GlobalProtect™ client connections.

Benefits

Troubleshoot your VPN tunnels with greater speed and visibility. View the status and duration of tunnels identified by peer IP, along with the encryption/hashing algorithms protecting your data. Compare a user’s session health to others connected around the same time for diagnosing problems between the VPN service and the user.

Use Case No. 2: Traffic composition by policy with NTA and NCM

Challenge

Operating at the speed of business, administrators must make network-wide policy changes, and they do not

see the impacts they make on production services and business-critical applications.

Answer

With both SolarWinds NTA and NCM, see the conversations based on applications defined in your firewall policies. Understand how policy rules apply to production services and the impacts of changing those rules.

Benefits

This allows examination of traffic by policy in real time and answers the question, “Who may be impacted when I make a policy change?”

Use Case No. 3: Device discovery and tracking with UDT

Challenge

With an ever-increasing number of connected devices requiring higher levels of security behind the firewall, managing inventory, port connectivity, and accurate topology are becoming increasingly more complex.

Solution

Discover and track devices connected to ports on your firewalls with SolarWinds UDT. Detect rogue devices and illegal port connections into your firewall.

Benefit

Gain detailed visibility into your connected enterprise devices and determine what belongs on your network.

About SolarWinds

SolarWinds (NYSE:SWI) is a leading provider of powerful and affordable IT management software. Our products give organizations worldwide—regardless of type, size, or complexity—the power to monitor and manage their IT services, infrastructures, and applications; whether on-premises, in the cloud, or via hybrid models. We continuously engage with technology professionals—IT service and operations professionals, DevOps professionals, and managed services providers (MSPs)—to understand the challenges they face in maintaining high-performing and highly available IT infrastructures and applications. The insights we gain from them, in places like our [THWACK Community](#), allow us to solve well-understood IT management challenges in the ways technology professionals want them solved. Our focus on the user and commitment to excellence in end-to-end hybrid IT management has established SolarWinds as a worldwide leader in solutions for network and IT service management, application performance, and managed services. Learn more today at www.solarwinds.com.

About Palo Alto Networks

Palo Alto Networks, the global cybersecurity leader, is shaping the cloud-centric future with technology that is transforming the way people and organizations operate. Our mission is to be the cybersecurity partner of choice, protecting our digital way of life. We help address the world's greatest security challenges with continuous innovation that seizes the latest breakthroughs in artificial intelligence, analytics, automation, and orchestration. By delivering an integrated platform and empowering a growing ecosystem of partners, we are at the forefront of protecting tens of thousands of organizations across clouds, networks, and mobile devices. Our vision is a world where each day is safer and more secure than the one before. For more information, visit www.paloaltonetworks.com.



3000 Tannery Way
Santa Clara, CA 95054

Main: +1.408.753.4000

Sales: +1.866.320.4788

Support: +1.866.898.9087

www.paloaltonetworks.com

© 2020 Palo Alto Networks, Inc. Palo Alto Networks is a registered trademark of Palo Alto Networks. A list of our trademarks can be found at <https://www.paloaltonetworks.com/company/trademarks.html>. All other marks mentioned herein may be trademarks of their respective companies. solarwinds-tpsb-080320