



SOLUTION BRIEF

Palo Alto Networks and BackBox

Automate Palo Alto Networks Device Operations
with BackBox

Key Benefits



Automated configuration backup for Palo Alto Networks NGFW and Panorama devices



Automated PAN-OS upgrade and verification



Minimize downtime when recovery is needed with single-click disaster recovery and step-by-step disaster recovery procedures



Monitor the health of your devices with BackBox Health Checks



Dynamic asset management and licensing

The Challenge

Security devices are complex, require constant changes, but must maintain uptime in order to support the organization and its customers. Administrators are understaffed and under time constraints to manage all tasks under their domain. This leads to potential delays or a neglect of tasks as workloads become overwhelming. Due to these limitations, needed tasks often are neglected and overlooked and, in effect, may cause a higher rate of downtime and slow recovery.

BackBox for Device Operations

BackBox provides a single, centralized location to store all network device backups, assuring that the recovery process always begins at the same location. Backups are protected by a state-of-the-art infrastructure to assure none of the critical configurations are compromised.

BackBox enables the administrator to schedule device configuration backups, allows for a single-click recovery process, and complies with regulations by providing detailed, step-by-step disaster recovery procedures.

BackBox eliminates the need to write scripts, manually backup devices, or use multiple management systems in order to enable quick disaster recovery for all security and network devices, thereby minimizing downtime.

With its unique dynamic inventory capability, BackBox collects asset information to report on all aspects of device information, such as version, hardware platform, resource information, licensing and more. In addition, BackBox gives the operator the ability to push configuration back to devices and make configuration changes to hundreds of devices with a single click. The automation of configuration changes can apply to user management, password policy, routing changes, operating system global parameters and much more, saving the organization countless hours and the possibility of misconfiguration due to human error.

Palo Alto Networks & BackBox

BackBox allows for the automated backup and recovery of Palo Alto Networks® Next-Generation Firewall and Panorama™ network security management, eliminating the need to either manually backup devices or customize in-house scripting and minimize downtime when recovery is needed.

BackBox collects asset information from Palo Alto Networks Next-Generation Firewall and Panorama and then reports on inventory information, including license information, device model, serial number and more.

BackBox can change operating system-level parameters on multiple devices with a single click. BackBox leverages the XML API to modify policies without an operator accessing the management interface. This gives customers or administrators an option to delegate administration tasks to individuals who do not require full policy access and thereby minimize human errors that might lead to configuration errors.

With its unique Health Check, BackBox can help ensure that Palo Alto Networks Next-Generation Firewall is not only up and running but also performing as expected.

BackBox provides a foundation that can offer the ability to harmonize the configuration between multiple devices. This provides a seamless integration to meet with specific company or industry standards and requirements. For example: You can track Palo Alto Networks Next-Generation Firewall and ensure it is aligned to either an industry compliance standard or the organizational guidelines. Customers can also leverage BackBox to track configuration changes and differences from the baseline.

Use Case Example 1

The Challenge:

Centralize and Automate Device Configuration Backup.

The Solution:

Seamless integration between BackBox and Palo Alto Networks NGFW and/or Panorama enables automated, centralized and secure backups for all configuration information from Palo Alto Networks devices. With this integration, rapid recovery is ensured and downtime is minimized.

Use Case Example 2

The Challenge:

Enforce Corporate Standards on all Security devices.

The Solution:

By eliminating the need to manually check and configure corporate standards, BackBox allows you to not only check for the validity of platform parameters but also autocorrect them to align with the corporate guidelines. Administrators can check firewalls for configuration changes and see differences in the baseline. Additionally, customers can use BackBox to upgrade their Palo Alto Networks firewall's version of PAN-OS® security operating system, providing the ability to upgrade hundreds of devices seamlessly.

Diagram

BackBox / Palo Alto Networks Operations and Transfer Protocols

- SSH (unidirectional—BackBox to Palo Alto Networks)
- HTTPS (unidirectional—BackBox to Palo Alto Networks)



About BackBox

Backbox is dedicated to empowering our customers to continuously enhance the health, performance, and security of their network infrastructure through intelligent, security-minded automation. We believe that network automation should be easy, attainable, and provide our customers with unprecedented time savings and reduced risk.

[Learn more at BackBox.com.](https://www.backbox.com)

About Palo Alto Networks

Palo Alto Networks is the next-generation security company, leading a new era in cybersecurity by safely enabling applications and preventing cyber breaches for tens of thousands of organizations worldwide. Built with an innovative approach and highly differentiated cyberthreat prevention capabilities, our game-changing security platform delivers security far superior to legacy or point products, safely enables daily business operations, and protects an organization's most valuable assets.

[Learn more at PaloAltoNetworks.com.](https://www.paloaltonetworks.com)



Privileged Access Control



Orchestration



Network Visibility



Asset Management



Disaster Recovery



Capacity Optimization



Security Audit



Health Checks

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