

# Safeguard automation across your infrastructure

“Our customers see exceptional benefits and time savings using Red Hat Ansible Automation Platform to automate their Palo Alto Networks NGFWs both for deployments and maintenance. For example 1 customer saved 97% engineering time deploying VM-Series virtual firewalls in under 20 minutes from 3 or more hours. Another, using Ansible to maintain consistent PAN-OS upgrades, was able to upgrade 75 [high availability] HA-paired NGFW in just under 2 hours rather than months, well within their tight maintenance windows.”

**Rich Campaigna**  
Product Management,  
Palo Alto Networks.

## Addressing the security of complex infrastructures

Enterprises are moving to the cloud, teams are expected to do more with less, and networks are growing increasingly complex. This makes it challenging to gain full visibility of the entire enterprise infrastructure, especially when manual processes are used to manage a range of network elements and security teams are using different tools to configure and deploy compliance policies.

As a result, network operations and security teams face pressure to ensure users have access to applications and resources from anywhere in the world, while also enforcing consistent security policies across the enterprise architecture to make sure the wrong people are not getting in and data is not getting out.

To address these challenges, organizations are looking to adopt NetOps methodologies that optimize the management and maintenance of their network infrastructure. However, many lack the automation, orchestration, and software-defined networking skills needed to achieve the secure implementation of NetOps.

## Speed, scale, and consistency for security across the enterprise

Together, Palo Alto Networks® and Red Hat help network and security teams to secure critical environments in a highly automated manner by creating efficient and repeatable NetOps workflows that maintain, update, and protect the network infrastructure of the enterprise.

Palo Alto Networks' PAN-OS® series of firewalls combined with Red Hat® Ansible® Automation Platform allow networking teams to create NetOps workflows that improve the scale, speed, and security of network infrastructure through a controlled, infrastructure-as-code (IaC) approach to managing network devices and changes in the environment.

As well as being able to automate safely across your infrastructure, the solutions foster visibility and collaboration between IT teams, and include joint support from Red Hat and Palo Alto Networks.

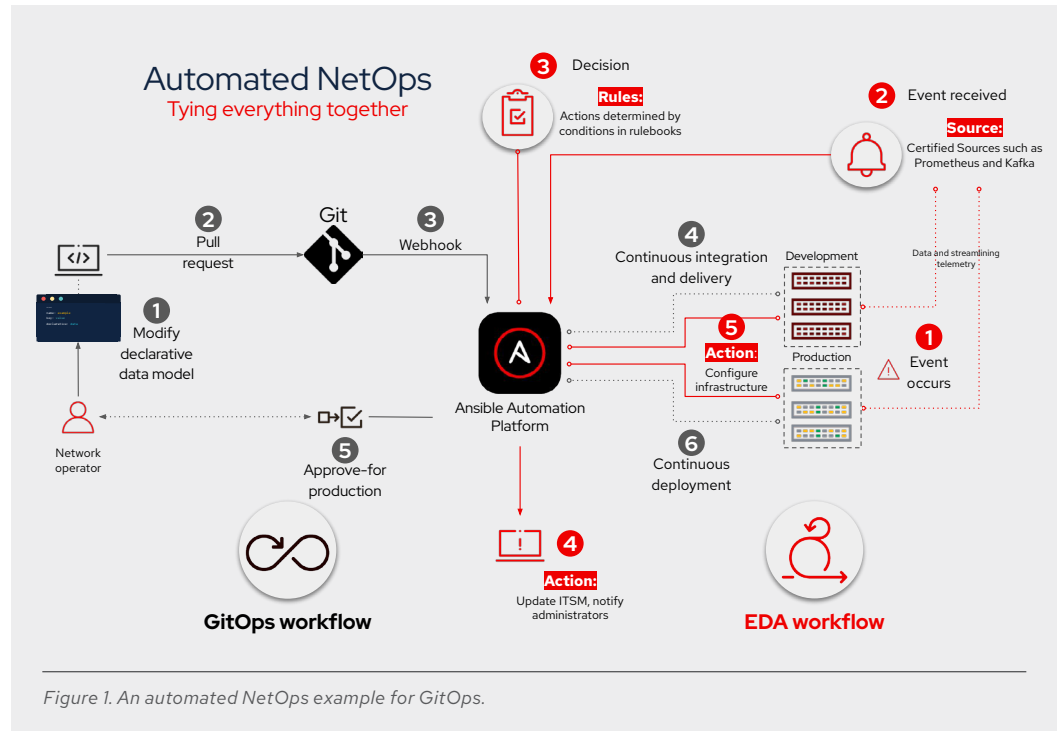
## Automation for increased efficiency, responsiveness, and adaptability

Organizations can achieve even more responsive and dynamic automation with Event-Driven Ansible, which automates tasks based on real-time changes in the environment, system events, or external triggers.

The Event-Driven Ansible plugin for PAN-OS makes it possible for the decisioning capability of Event-Driven Ansible to receive intelligence about a condition in the IT environment that needs a response and elevates security operations for Palo Alto Networks products. The plugin provides real-time error log streaming and automated response, providing opportunities for self-healing network security.

## Overview:

Discover how automation creates, repeatable, and consistent operations workflows for managing and safeguarding infrastructure.



Palo Alto Networks' extensive certified collections for Red Hat Ansible Automation Platform facilitate the automation of any PAN-OS powered offering from Palo Alto Networks—the software that runs Palo Alto Networks next-generation firewalls (NGFW). This integration provides organizations with a powerful solution for enhancing security, streamlining operations, and adapting to the evolving threat landscape.

With the PAN-OS Ansible Content Collection, network and security teams have the ability to define and manage both network and security components, configs and policies using a single automation platform.

Through the key technologies built into PAN-OS, such as App-ID, Content-ID, Device-ID, and User-ID, customers gain complete visibility and control of the applications in use across all users and devices in all locations all the time. Inline machine learning (ML), application and threat signatures automatically reprogram firewalls with the latest intelligence, to ensure the allowed traffic is clear of known and unknown threats.

## Accelerate development, deployment, and time to market

Customers who deploy the PAN-OS Ansible Content Collection can:

- ▶ Save time and increase compliance by automating the deployment of both physical and virtualized next-generation firewalls, and/or integrate deployments within existing continuous integration and continuous deployment (CI/CD) pipelines.
- ▶ Adapt to change rapidly and deploy security confidently.
- ▶ Access a system of record to inspect configs for change management and audit purposes.
- ▶ Replicate exact configurations and eliminate human error.
- ▶ Remove manual processes to give teams time back to focus on the things that matter.

## Move to a NetOps methodology with confidence

Palo Alto Networks' PAN-OS series of firewalls, combined with Red Hat Ansible Automation Platform, provide the tools you need to automate your infrastructure and safely and efficiently manage network, security, and compliance operations, leaving your IT teams available to focus on innovation. Learn more:

[Watch the demonstration: Automate your Palo Alto Networks Next-Generation Firewall with Red Hat Ansible Automation Platform.](#)

[Discover how to configure Ansible for PAN-OS.](#)

[Learn more about Red Hat and Palo Alto Networks partnership.](#)



## About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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