

Accelerate digital transformation with Exastro IT Automation



Take the time and complexity out of modernization

Organizations globally are under growing pressure to modernize their operations and free up resources for innovation. Yet many are held back by siloed teams, manual processes, and a reliance on individual expertise. NEC's research reveals that 80% of IT engineers in Japan are focused on maintaining legacy systems, leaving little capacity for transformation.

Even companies that have started to adopt automation tools still face challenges. Fragmented efforts, lack of standardization, and limited visibility across systems means many automation initiatives fail to deliver tangible business outcomes. To stay competitive, organizations need more than tools. They need a strategic approach to automation that reduces operational overhead, builds resilience, and unlocks time for growth.

Discover a smarter, simpler way to achieve scalable automation

Exastro IT Automation helps organizations simplify and accelerate their automation journey. It combines NEC's proven automation framework with Red Hat Ansible Automation Platform, making it easier to standardize processes, reduce manual effort, and scale automation across the business.

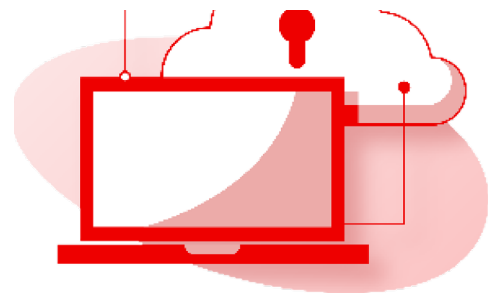
- **Rapid service delivery:** Automates provisioning of virtual machines and storage, enabling faster responses to internal requests.
- **Improved incident response:** Automatically triages and responds to system alerts, reducing downtime and freeing teams to focus on strategic priorities.
- **Efficient maintenance:** Streamlines patching and root cause analysis with standardized workflows, helping teams stay ahead of vulnerabilities.
- **Reliable, centralized control:** Stores all system configurations and change histories in one place, reducing errors and eliminating reliance on individual knowledge.
- **Built-in resilience:** Adapts to system changes automatically, ensuring automation remains stable and scalable as your environment evolves.
- **Governance you can trust:** Role-based access controls and flexible automation options (including "Pioneer Mode") support compliance in regulated industries.

How Exastro IT Automation transforms your automation journey

Challenge	Benefit of Exastro IT Automation
Siloed operations and manual processes	Centralized automation platform with standardized workflows
Over-reliance on individual expertise	Parameter database and modular components reduce human-dependence
Fragmented automation efforts	Unified orchestration across existing solutions
Low ROI from automation	Proven efficiency gains and rapid time to value
Configuration drift and errors	Time-series parameter tracking and decoupled job flows ensure accuracy and resilience

Key capabilities that drive smarter outcomes

- **Automated event handling:** Reduces manual triage by automatically identifying and responding to system alerts, freeing teams to focus on higher-value tasks.
- **Clear visibility into system changes:** Tracks configuration updates over time, making it easier to investigate issues, maintain compliance, and improve governance.
- **Reusable automation building blocks:** Offers a library of pre-built components that simplify the creation of automation workflows, accelerating deployment and reducing effort.
- **Flexible, future-proof workflows:** Keeps automation stable even as systems evolve, thanks to job flows that aren't tied to specific configurations.
- **Automation without limits:** Handles even complex or previously manual tasks across diverse environments, helping organizations extend automation to more areas of the business.



Technology Used

Red Hat Ansible Automation Platform: orchestration engine for automated execution.

Proven benefits

- **75–85% reduction in operational effort** for patching, password rotation, and scheduled SQL tasks
- **34% reduction in workload** for network device configuration
- **75% cost savings** in operational monitoring
- **80% reduction** in maintenance workload



Safeguard your automation journey with a proven methodology

NEC's Procedures for Streamlining System Operation (PSSO) method provides a structured approach to help your organization move from manual operations to enterprise-wide automation. It includes three steps:

- **Centralize system knowledge**
Consolidate existing configuration data into a single, accessible source, laying the foundation for consistent, reliable automation.
- **Automate routine tasks**
Replace manual processes with streamlined workflows that reduce effort, improve accuracy, and free up resources.
- **Connect and scale automation**
Link systems and processes to enable end-to-end automation across your environment without adding complexity.

Success Story: Streamlining network operations

In a carrier-grade environment, NEC applied our PSSO method using Exastro IT Automation to automate IP address provisioning and firewall updates across 30 network devices.

Results included a 34% reduction in workload and ROI achieved by the third execution cycle.

Fast-track automation results with Exastro IT Automation Cloud

Exastro IT Automation Cloud accelerates the journey by providing a ready-to-use automation platform in the cloud. Provided on a subscription basis, there is no set-up required, and it is available within just two days after subscription. It includes Red Hat Ansible Automation Platform licenses (starting from 10 nodes). This enables organizations to start implementing PSSO rapidly without infrastructure delays.

Success Story: Automation at scale

NEC leveraged Exastro IT Automation Cloud to replace fragmented, manual monitoring processes with standardized automation, creating a more efficient and resilient operations model.

This transformation delivered significant results: operational monitoring costs were reduced by 75%, dropping from ¥400 million to ¥100 million, while maintenance workload decreased by 80%, from ¥40 million to ¥8 million.

Exastro
An open-source suite supporting digital transformation through system lifecycle automation.
Exastro IT Automation
A tool for automating and managing system configurations and operations using IaC and workflow orchestration.
Exastro IT Automation Cloud*
A cloud-based version of IT Automation offering scalable, multi-tenant automation without on-premise setup.

*Exastro IT Automation Cloud is only available within Japan.

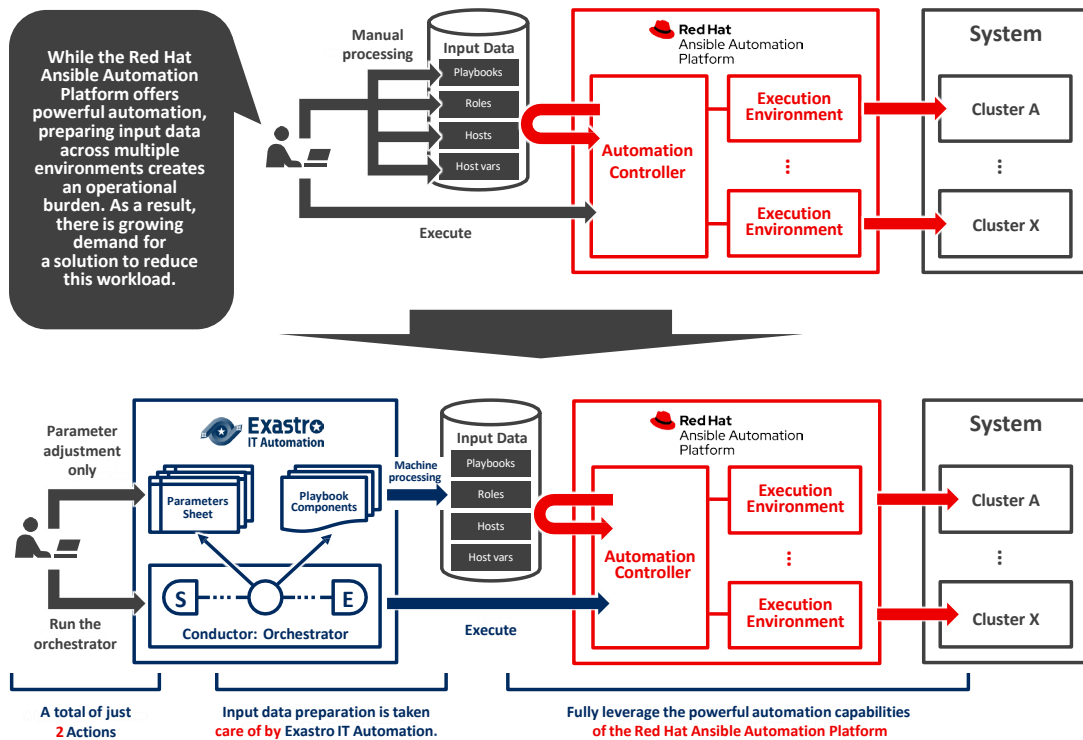


Figure 1: Integration of Exastro IT Automation and Red Hat Ansible Automation Platform

“By automating tasks like patching and password rotation, we reduced operational effort by 75–85%.”

Masamitsu Saito, Corporate IT System Division – Infrastructure Operations Department, NEC

Learn more about:

- **Exastro IT Automation Cloud:** Japanese: [NEC Cloud Solutions | NEC](#)
- **Exastro IT Automation:** Japanese: [Exastro IT Automation Ver.2](#)
- **PSSO Methodology:** [PDF Guide](#)
- **Exastro:** English: [Exastro](#) | Japanese: [Exastro](#)
- **Success story:** [Automation at scale](#)
- **NEC:** [NEC Global](#) | [NEC Japan](#)

About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organisations grow, transform, and prepare for the digital future.

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