

# Red Hat automation for Lenovo systems

Solve IT operations and business workflow challenges with Red Hat Ansible Automation Platform

By automating operations tasks, you will see faster rollout of new applications and services, fewer security and compliance risks, and lower operating expenses—while you free IT staff and budget for more valuable activities.

Modern IT architectures are increasingly complex, built on diverse platforms and technology layers, often spanning multiple datacenters and clouds. However, this infrastructure is typically built, operated, and maintained using manual methods. Network operators log in to devices such as servers and switches, change configurations or update software, then log out.

This kind of hands-on management and human intervention is unsustainable. Traditional methods are too slow and error-prone to keep pace with rapidly shifting demands on virtual and diversified architectures.

Applying niche automation is a start, but legacy management tools have limitations. They compartmentalize control, use proprietary languages, and do not scale well. Without big-picture integration, manual tasks can still dominate the operations team's time and energy.

## Free your IT operations team for better things

Automate redundant and mundane operations tasks. A holistic approach to IT automation can free staff from manual processes that machines can do better. Teams become more productive, with more time available for thoughtful, meaningful work.

Modern IT automation can take over structured, repetitive tasks for:

- **Provisioning** datacenters, networks, and storage resources, working with the management tools you have as you move toward the future state you need.
- **Configuration management** to tell provisioned resources what to do, so you can automate scripts and practices to manage those systems.
- **Orchestration** of all the moving parts in an infrastructure—among apps and infrastructures—on premises or cloud.
- **Application deployment**, bringing consistency to processes throughout the life cycle.
- **Security and compliance** based on standardized processes and workflows that automatically identify issues and take action to remediate them.

With IT automation, you can deploy with certainty, configure with consistency, and get apps and their artifacts up and running fast—all via a common, transparent approach that IT staff can understand.

## An alliance of leading technology partners

Close technical and business collaboration between Red Hat and Lenovo combines the advantages of our respective strengths: Red Hat's position as the market-leading provider of open source platforms and Lenovo's leadership in enterprise hardware.

- **Red Hat® Ansible® Automation Platform** automates infrastructure management through the entire production life cycle. Ansible Automation Platform carries out these activities through playbooks—instructions and language that describe policies you want to enforce and steps to follow in

Red Hat and Lenovo engineers have worked together for years to ensure that Red Hat Enterprise Linux® and Red Hat Ansible Automation Platform maximize the latest Lenovo hardware innovations.



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Lenovo is a leading provider of x86 servers for datacenters, with an end-to-end portfolio of cloud-enabled compute, storage, and networking capabilities.

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Lenovo Open Cloud Automation (LOC-A) has been shown to reduce the time required to deploy a cloud to new infrastructure by up to 81%.<sup>1</sup>

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LOC-A is a solution for automating cloud deployment, enabling enterprises to accelerate time to value, simplify operations and be cost effective.

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an automated process. It is easy to get started because there is no need to learn a programming language, and with Ansible Automation Platform's agentless technology, there is no need for a nugget of software to run in the background on the machine being managed.

- **The AWX Project, sponsored by Red Hat** brings a simple user interface (UI) and dashboard for Ansible. It enables users to see everything happening across nodes, centralize automation, grant role-based access, schedule jobs, and more. It also gives real-time information about playbook runs and natively supports cloud deployments.
- **Lenovo servers and storage** form the physical datacenter infrastructure under automated management. Red Hat Ansible Automation Platform has been certified to run on Lenovo ThinkSystem servers and ThinkAgile hybrid cloud systems, the core of modern IT infrastructures.
- **Lenovo Open Cloud Automation (LOC-A)** is a modular software automation framework using Ansible playbooks designed to rapidly deploy, optimize, and manage cloud solutions on Lenovo hardware, including Red Hat solutions.

## Business benefits of the Lenovo and Red Hat partnership

**Boost productivity** by freeing operations teams for more value-added work.

- Streamline backup and restore functions.
- Test and deploy changes automatically.
- Automate repetitive and unpopular tasks.

**Improve security** through early identification and resolution of risks.

- Collect information about network devices.
- Build an inventory of those devices.
- Automatically mitigate issues.

**Maintain compliance** with changing regulations.

- View all configurations from a single platform.
- Automatically test changes before committing.
- Validate that changes were made appropriately.

**Increase availability** with more effective testing and management.

- Automate testing to better understand the impact of changes.
- Reduce manual errors with automated change management.

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<sup>1</sup> *"Improving the Economics of Private Clouds", AvidThink 2020.*

## Lenovo and Red Hat—Stronger together

From device, to datacenter, to cloud, Lenovo and Red Hat have been delivering integrated hardware and software solutions to customers around the globe for years.

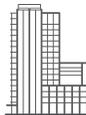
Together, we offer a full open hybrid cloud portfolio to build the right solution for every application. From software to hardware to management, automation, and developer tools, we are working together to change the economics of the datacenter.

Our global teams are committed to delivering innovative open source solutions. This symbiotic alliance brings you a complete platform built on technologies that have been tested and validated together, coupled with award-winning support.

### Learn more

To learn more about how the Lenovo and Red Hat partnership can help you advance your automation initiatives, contact your Lenovo Business Partner or Red Hat Representative, or visit: [redhat.com/en/partners/lenovo](https://redhat.com/en/partners/lenovo).

### 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 integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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