

Increase the value of Red Hat Enterprise Linux with IT automation

Red Hat® Enterprise Linux® provides the agility and stability needed for the complexity of today's IT operating environments—and you can further streamline the management of your estate with the right automation solution.

Using Red Hat Ansible® Automation Platform allows Red Hat Enterprise Linux users to automate how they configure, deploy, manage, and scale their infrastructure, for improved consistency, reduced manual efforts and operational costs, quicker time to value, and an overall improved operational efficiency. Discover how with these 4 high-value use cases.

1 Streamline CentOS migration and mitigate upgrade risks

Ansible Automation Platform helps organizations migrating to Red Hat Enterprise Linux (or upgrading Red Hat Enterprise Linux) accelerate migration and minimize migration-related risks, with tools for:

- ▶ **Premigration fact gathering and orchestration.** Automate preflight infrastructure awareness and fact gathering and record it to your IT service management (ITSM), [such as ServiceNow](#). Ansible Automation Platform can also build system snapshots for recovery, confirm that the host is fully updated, or initiate other key premigration workflows, such as approval processes for system conversions and conversion command line tools for Red Hat Enterprise Linux versions 7, 8, and 9.
- ▶ **Convert2RHEL.** Following premigration steps, Ansible Automation Platform can trigger the Convert2RHEL process at scale to convert CentOS systems to Red Hat Enterprise Linux 7.
- ▶ **Migration validation.** This includes pre- and post-migration validation checking, inventory management of CentOS hosts, compliance checks during migration and scaling, and post-configuration system testing.
- ▶ **Preupgrade assessment.** If you are upgrading to Red Hat Enterprise Linux 7 after a migration, you can generate a preupgrade report with Leapp. It will identify any required updates or reconfigurations to third-party tools.

2 Create consistency across systems and environments

Ansible Automation Platform helps organizations achieve consistency at scale and across systems and operating environments by automating key management tasks and creating automated remediation of potential issues.

With Ansible Automation Platform, organizations can:

- ▶ Configure, deploy, manage, and scale Red Hat Enterprise Linux systems with consistency across an entire IT landscape.
- ▶ Build complex automation workflows that span the entire IT landscape, including hybrid and multicloud environments.
- ▶ Standardize the configuration of physical, virtual, cloud, or edge environments, actively monitor environments to identify compliance and configuration issues with Red Hat Insights, and automate remediation with Event-Driven Ansible.
- ▶ Automate how systems are patched and upgraded for improved speed, accuracy, and consistency.
- ▶ Use data from Red Hat Insights or Performance Co-Pilot as an event source for Event-Driven Ansible to proactively identify and remediate system performance issues, such as high CPU or memory usage.

3 Reduce Day 2 management complexity

- Even after standardizing, organizations still have to contend with time-consuming, manual Day 2 operational processes that can impede productivity and innovation. Ansible Automation Platform can help reduce Day 2 complexity and save time by:
- ▶ Completing patching, backups, reboots, and security fixes to keep Red Hat Enterprise Linux systems running.
 - ▶ Implementing large-scale changes across an entire organization in a fraction of the time usually required.
 - ▶ Scaling servers efficiently, while mitigating the risk of common human errors.
 - ▶ Automating complex workflows between Red Hat Enterprise Linux and any third-party applications or systems.
 - ▶ Monitoring automation across an entire organization’s operating environment, from a single platform, with the support of Red Hat Insights’ proactive monitoring and reporting.

4 Minimize manual intervention with event-driven automation

- With full integration between Ansible Automation Platform and ServiceNow ITSM, organizations can use Event-Driven Ansible to:
- ▶ Enhance closed-loop automated processes between ServiceNow ITSM, Ansible Automation Platform, and other systems and components.
 - ▶ Gather facts related to a ticket and provide additional troubleshooting data to help streamline resolution.
 - ▶ Automatically remediate a wide variety of system issues to prevent downtime and maximize productivity.
 - ▶ Help IT teams improve reaction time, increase productivity, and reduce friction using Event-Driven Ansible Notification Service.
 - ▶ Promote service catalog orders to additional approvers when specific conditions are met—such as a request for a virtual machine exceeding a specified maximum amount.

Learn more

[Read this e-book](#) to discover more about increasing the value of Red Hat Enterprise Linux with automation.

Try it now

Explore the possibilities of automating Red Hat Enterprise Linux in [these self-paced, hands-on labs](#).



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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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