

Automating Government IT Operations

Repeatable, predictable human tasks will be automated

Why Should Agencies Automate?

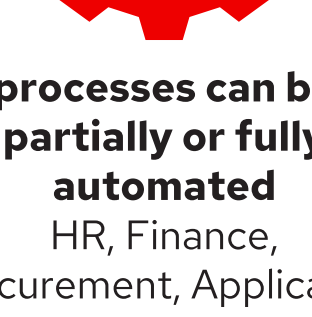
"Implement process automation to shift from low-value to high-value work."

GSA.gov

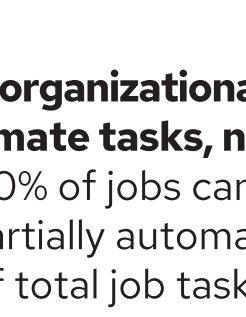
Efficiency, Relevance, Agility, Scale



potential cost savings



processes can be partially or fully automated
HR, Finance, Procurement, Application Processing



Increase organizational capacity: automate tasks, not jobs
60% of jobs can be partially automated
45% of total job tasks can be automated

Some Automation Terms and Acronyms



- AI/ML:** Artificial Intelligence/Machine Learning
- Big Data:** Extremely large data sets, often necessary inputs for AI/ML
- Bots:** Autonomous programs
- DevOps:** Agile integration of development and operations
- DevSecOps:** Integrating continuous security into DevOps
- RPA:** Robotic Process Automation

Critical Obstacles

- Security concerns
- Budget limitations
- Cultural barriers
- Skills shortage



What Can Agencies Automate with Red Hat?

Red Hat Ansible is a powerful, open source platform for building automation across the organization, compatible with products and solutions from multiple vendors.

- DevOps**
Improve utilization efficiency, reduce deployment times
- Networks**
Improve network reliability, reduce manual touches
- Hybrid Clouds**
Improve operational scale, reduce provisioning times
- Security & Compliance**
Improve security posture, reduce human errors

Automate DevOps

"Demonstrated how emerging technology and approach can significantly increase readiness and deliver capabilities in a rapid manner."

U.S. Navy

Operating systems and virtualization:



DevOps tools:



Provision resources

Build environments

Orchestrate workflows

Test and deploy applications

Why Red Hat Ansible

68% more efficient IT infrastructure management

68% faster deployment of new storage resources

41% more productive application development

Automate Networks

"By 2021, productized network automation tools will be used by 45% of organizations, which is an increase from fewer than 10% today."

Gartner

45+ network platforms



- Manage configurations
- Deploy devices with zero touch
- Validate network status
- Install software updates/patches

Why Red Hat Ansible

50% reduction in unplanned network outages

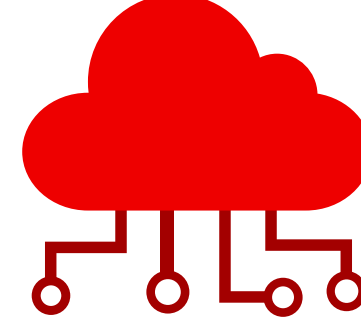
33% reduction in network costs

74% improvement in network operations efficiency

Automate Hybrid Clouds

"Automated tests provide consistent and reliable protection against unintentional regressions and make it possible for developers to confidently release frequent updates to the service."

CIO.gov



- Provision infrastructure
- Scale environments
- Manage routing
- Modernize applications

Why Red Hat Ansible

86% automation very important for cloud strategy

66% faster development cycle

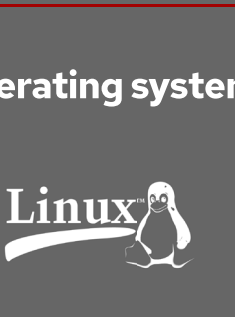
38% lower costs per app

Automate Security and Compliance

"DevSecOps culture is lacking if manual processes are tolerated when such processes can and should be automated (e.g. automated testing, continuous integration, continuous delivery)."

DoD

Operating systems:



Infrastructure:

Servers, Storage, Networks, Clouds

Firewalls, IDPS, SIEM:



- Enforce policies (DISA STIG)
- Manage vulnerabilities/patches
- Detect anomalies
- Respond to incidents

Why Red Hat Ansible

25% more efficient security teams

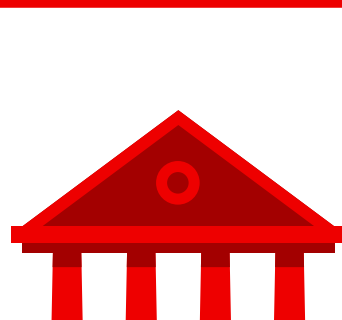
80% reduction in time required for security updates

94% reduction in time needed to recover from security incidents

Automate Government IT Operations with Red Hat Ansible

"Ansible Tower has allowed us to provide better operations and security to our clients."

NASA



- Security** – Enhance regulatory compliance and decrease response times
- Budget** – Expand resource scalability and shrink operating costs
- Culture** – Improve application agility and reduce human errors
- Skills** – Simplify IT operations and eliminate manual processes

Red Hat Ansible

Open Source Intelligent Platform for Intelligent Apps