

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



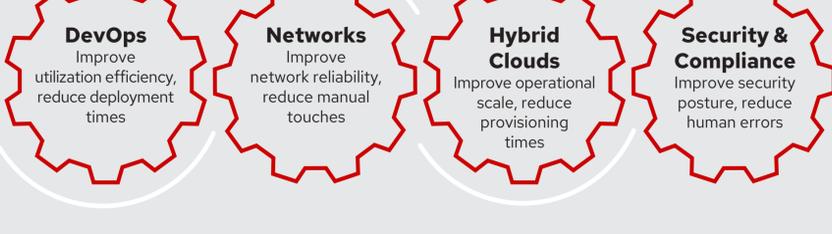
- AI/ML:** Artificial Intelligence/Machine Learning
- Big Data:** Extremely large data sets, often necessary inputs for AI/ML
- Bots:** Autonomous programs
- DevOps:** Agile integration of development and operations
- DevSecOps:** Integrating continuous security into DevOps
- RPA:** Robotic Process Automation

Critical Obstacles



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.



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: Red Hat Enterprise Linux, Windows, Windows Server

DevOps tools: ATlassian, IBM, CyberArk, Splunk, Datadog, Red Hat, Check Point

- Provision resources
- Orchestrate workflows
- Build environments
- Test and deploy applications

Why Red Hat Ansible



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

ARISTA, Juniper Networks, Cisco, Infoblox, Palo Alto Networks

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

Why Red Hat Ansible



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

amazon web services, Google Cloud Platform, Microsoft Azure, openstack.

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

Why Red Hat Ansible



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: Linux, Windows

Infrastructure: Servers, Storage, Networks, Clouds

Firewalls, IDPS, SIEM: Check Point, IBM, Splunk, Cisco, Fortinet, Syncope, CyberArk

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

Why Red Hat Ansible



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

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