

# Helping government deliver capability faster with less risk

## Red Hat fast facts

- Founded in 1993
- No. 1 provider of enterprise IT open source solutions
- Red Hat products are accredited and certified to meet government compliance standards<sup>1</sup>
- Strategic partnerships with major public cloud providers, including Amazon, Microsoft, and Google
- Subscription-based model offers flexibility and cost-effective access to technologies with better security, stability, and reliability

## Products cover 6 primary technology areas:

- Linux® platforms
- Cloud computing
- Middleware
- Storage
- Virtualization
- Management



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## Industry overview

Innovation creates opportunities and challenges. Government-issued mandates help agencies transform and grow using AI, edge computing, DevSecOps, containers, and multiclouds and hybrid clouds. But obstacles persist. Maintaining security and navigating the Authority to Operate process can be challenging. Budgets are tight. Proprietary lock-in limits options while raising costs. How can you maximize the benefits of modern technologies and prepare for the future while avoiding the risks?

## Red Hat helps government innovate

Red Hat solves challenges with modern practices and technologies using a community-powered innovation model to deliver mission and citizen outcomes. We enhance open source community technology to create commercially supported solutions suited for the rigors of government and regulatory standards. You get a solid foundation for security-focused, cost-effective operations, and continuous innovation you can take advantage of with existing investments while giving you more options as you grow.

We focus on:

- **IT modernization.** Embracing new technologies and approaches is critical to achieving government IT objectives. Agencies can improve mission effectiveness while optimizing their infrastructures long-term, which could be reflected positively in improved FITARA scores. However, as organizations modernize, they must continue to support existing systems and processes that run and protect active operations.
- **Integration.** Digital information is stored in disparate locations and needs to be accessed by applications, processes, and people. Integration of software, services, application programming interfaces (APIs), data, and devices lets agencies interact with each other, employees, applications, processes, citizens, and databases. Simplifying the connections between these entities makes capabilities reusable and increases efficiency.
- **Hybrid cloud infrastructures.** Agencies need always-on, security-focused, scalable, and dynamic infrastructures. A hybrid cloud infrastructure, available on demand with automated resource scaling and life-cycle management, allows agencies to pursue Cloud Smart policies to move workloads to the cloud and back and share applications with peer agencies for reuse with minimal revisions. A hybrid cloud infrastructure also helps you quickly deliver new services across any environment.
- **Cloud-native development.** Modern applications can run across complex hybrid cloud environments without modification. This helps organizations move faster and optimize innovative, new technologies and practices like containers, microservices, and DevSecOps.
- **IT automation and management.** Analysis and orchestration of applications and systems across cloud and bare-metal deployments let organizations better control environments, find and fix flaws quickly, and automate manual or repetitive tasks. Automation also facilitates consistent remote control over thousands of edge systems from a central datacenter. Automating extends

<sup>1</sup> "Government standards." Red Hat Customer Portal, 20 Oct. 2020.

## 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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and replicates institutional knowledge and best practices without the need for key personnel to travel and manually configure systems individually. Automation is ideal for government agencies that need to forward-deploy complex workflows without deploying key IT resources. Automation also provides IT departments with more time and resources to focus on innovation and improved service delivery.

- **Cultural transformation.** Collaboration, transparency, and a commitment to continuous improvement is a winning combination for the development and deployment of innovative technologies at speed. Agile development practices like DevSecOps can help you produce secure applications faster than ever before. But, making these practices part of agency IT life requires commitment and a willingness to adopt a culture that eschews isolation and traditional waterfall development practices in favor of open, collaborative, and iterative approaches.

## Red Hat in government today

Federal, state, and local agencies and organizations are using Red Hat® technologies to support their Cloud Smart efforts, improve FITARA scores, automate the management of thousands of different devices, improve caseworkers' interactions with citizens, and accelerate the delivery of mission capabilities to the warfighter. Some examples of Red Hat in action include:

### Building a cloud-ready digital service solution with containers

The State of Michigan's Department of Technology, Management, and Budget (DTMB) supports internal and citizen-facing services for 19 state agencies. To keep pace with demand, the department sought to improve development, delivery, and reliability for agencies' digital services by migrating to a container-based infrastructure. With this new environment based on Red Hat OpenShift®, DTMB has reduced application delivery times while creating a scalable, vendor-agnostic foundation for future cloud adoption.

### Improving patient care with a hybrid cloud solution

Red Hat worked with Perspecta, a leading U.S. government services provider, to support the development of HealthConcourse, a standards-based, open-technology-driven digital health platform. Healthcare organizations rely on data from multiple sources and cloud services and need to aggregate and normalize data from the disparate sources to provide caregivers with the information they need for accurate and informed patient care. HealthConcourse uses Red Hat OpenShift and Red Hat OpenShift Application Services to connect healthcare data producers, consumers, services, and storage in a highly scalable, hybrid, cloud-agnostic infrastructure.

### Transforming defense application development with DevSecOps and IT automation

With its C2C24 initiative, the Navy transformed how it develops and deploys software to the fleet. Working with Red Hat Consulting, the Naval Information Warfare Center Pacific employed open source tools and agile DevSecOps best practices to create a security-focused application development pipeline and demonstrate automated application deployments. The effort resulted in rapid deployment of new capabilities and increased software reliability, stability, and capability.

To learn more about how Red Hat can help government IT innovate, visit [redhat.com/government](https://redhat.com/government).