

Government transformation with open hybrid cloud

Increase agility

- Deliver consistent user experience across clouds.
- Deploy applications on the right infrastructure based on capabilities, cost, and business requirements.
- Get applications online faster with flexible deployment and portability.
- Respond more quickly to unexpected shifts in workforce or citizen needs.
- Reduce risk through ongoing compliance and runtime management.

Control costs

- Fewer workflow interruptions as apps move in and out of environments.
- Unified interface reduces the need for training staff on multiple interfaces and tools.
- Reduce costs without vendor lock-in.

Syncing innovation and cost control

Increased work from home, digital channels, and more data collection are stressing government business processes, workloads, and servers. Developers and operations teams want to modernize legacy applications and infrastructure to scale and update more easily but business leaders are rightfully worried about costs.

Align these goals with open hybrid cloud. Build and deploy application components on any private or public cloud. Components communicate across cloud boundaries via APIs and can move freely across clouds as needs change. Simplified deployment, on-demand scaling, and automation also reduce costs.

The value of open hybrid cloud in government

Integrating different application elements across cloud boundaries is the heart of hybrid cloud. Use Red Hat's flexible integration tools to connect services or applications in different environments and manage different APIs and protocols. When developing an app that deals with sensitive information, for instance, the team can deploy the logic on public cloud and the database on on-prem cloud while managing security needs. Teams are free to use any environment if they comply with your tool and policy guidelines. Reduce vendor lock-in that stifles innovation and increases costs.

Streamline operations. Quickly build, deploy, and run cloud-native or traditional applications. As demand changes, spin up or spin down application containers more securely, moving them between on-prem and off-prem clouds.

Optimize existing IT while supporting innovation. Modernize applications at your own pace. Continue running legacy application components in on-prem cloud, using APIs to integrate with container-based components deployed anywhere.

Develop and deliver apps faster. Develop cloud-native applications to take advantage of cloud scale, elasticity, and automation. A trusted software supply chain (TSSC) is an enforced sequence of processes to develop and deploy software using agile methods and standards.

Improve processes with automation. Write policies to automate cloud provisioning, application deployment, configuration management, and service orchestration. Automation frees up developers to innovate, and helps operations teams deploy sooner by giving them confidence that code meets usability and security standards.

Enhance security. Open source provides transparency. We build security into our enterprise open source products from the start, and enforce it by default.



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Putting the “open” in open hybrid cloud

Open refers to architecture, software, standards, and APIs. Your complete technology stack does not need to be open source – just the layer on top of the public cloud – to allow applications and data to move freely between environments.

Elements of open hybrid cloud

Red Hat’s complete solution for open hybrid cloud (Figure 1) includes:

- ▶ Infrastructure software. A foundation of Red Hat® Enterprise Linux®, Red Hat OpenShift®, and Red Hat OpenStack® Platform lets you deploy apps on physical or virtual servers, in on-prem or public clouds. Red Hat Enterprise Linux is the connective tissue – a common platform for traditional as well as cloud-native apps.
- ▶ Cloud-native development. Build cloud-native apps using microservices deployed in containers, supported by Red Hat Middleware, Red Hat OpenShift, and Red Hat CodeReady Workspaces.
- ▶ Management and automation. Automate repetitive activities with Red Hat Ansible® Automation Platform. Unify bare-metal, virtual, and cloud environments – moving components between them. Manage any environment running Red Hat Enterprise Linux using Red Hat Smart Management.

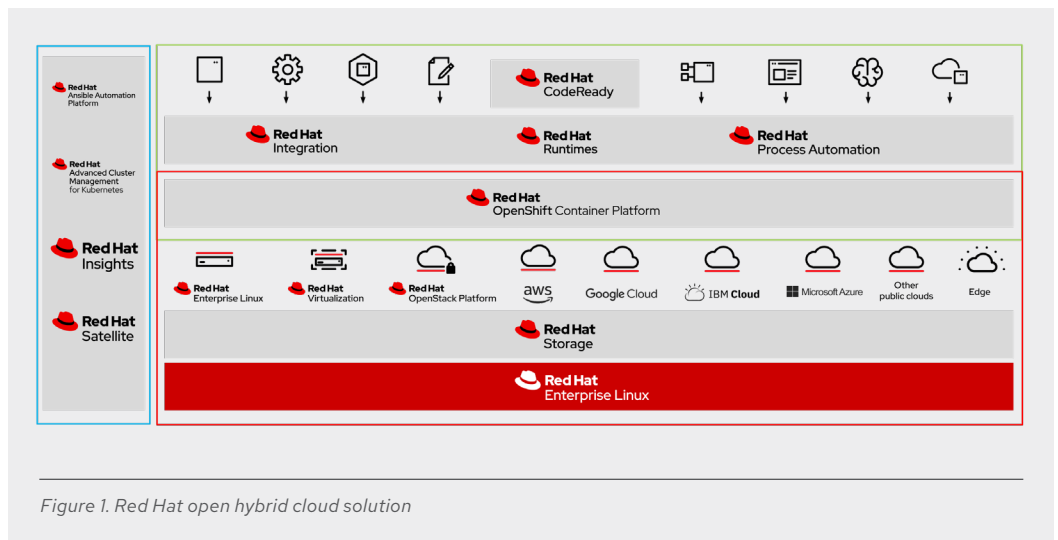


Figure 1. Red Hat open hybrid cloud solution



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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