

Adopt progressive, layered IT security with Red Hat and Google Cloud



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Based on a continuous, integrated security approach, Red Hat and Google Cloud offer tools and capabilities that work across your organization and infrastructure to increase protection at every level.

Protect your IT to protect your business

Modern business relies on IT services, applications, and operations. As a result, your IT infrastructure and data are now key business assets. Safeguarding them from threats is crucial.

Even so, security threats continue to grow. In fact, 32% of enterprises experienced major cyber attacks in the previous two years.¹ Understanding the current state of your IT security is the first step in improving your protection and response to threats. However, complex, disparate infrastructure often impedes visibility, preventing you from gaining a complete view of your environment.

Using an [integrated approach to security](#), Red Hat and Google Cloud provide a security-focused foundation for hybrid operations with built-in protection to help you safeguard your business.

Deploy a security-focused foundation with Red Hat and Google

Red Hat and Google Cloud offer modular solutions that let you deploy a flexible, security-focused foundation – based on Red Hat® Enterprise Linux® and Google Cloud Platform – and add components and capabilities as needed to meet your organization's requirements at all times.

[Red Hat Enterprise Linux](#) helps you combat intrusions and meet regulatory compliance with mandatory access control and application isolation in containers with added security. Red Hat's unique subscription model gives you access to a [dedicated team of experts](#) who support Red Hat technology 24x7.²

The [Google Cloud security model](#) is based on more than 15 years of experience in safeguarding data on Google applications like Gmail and G Suite. When using [Google Cloud Platform](#), this same security model and foundation protect your own applications and data.

Red Hat and Google Cloud foster large third-party ecosystems so you can use your preferred security tools and applications within Red Hat and Google Cloud architecture solutions. The companies also continue to build open source security technologies like [Grafeas](#) to benefit the entire open source ecosystem.

Red Hat and Google Cloud deliver security capabilities that work across your organization and infrastructure to increase security at the infrastructure, container, application, and data layers.

Increase infrastructure security

Vulnerabilities in your IT infrastructure can have widespread, lasting, and catastrophic consequences for your business. Red Hat and Google Cloud use a defense-in-depth approach that integrates security across all aspects of your infrastructure – including hardware, operating platform, application services and deployment, identity management, and end devices.

Purpose-built processors, servers, storage, networks, and datacenters minimize complexity and attack surface. [Live Migration technology](#) on Google Cloud Platform allows servers to be updated, maintained, and restarted without disruption to services. Compliance with common regulatory frameworks ensures your infrastructure uses the latest security technologies and best practices.



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¹ *Harvey Nash and KPMG, "CIO Survey 2019: A Changing Perspective," 2019.* home.kpmg/xx/en/home/insights/2019/06/harvey-nash-kpmg-cio-survey-2019.html.

² *Read more about Red Hat subscriptions and support at redhat.com/en/services/support.*

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.

About Google Cloud

Google Cloud is widely recognized as a global leader in delivering a secure, open, intelligent, and transformative enterprise cloud platform. Google Cloud technology is built on Google's private network and is the product of nearly 20 years of innovation in security, network architecture, collaboration, artificial intelligence, and open source software. Google Cloud offers a simply engineered set of tools and unparalleled technology across Google Cloud Platform and G Suite that helps bring people, insights, and ideas together.



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Cryptographic verification of server software ensures all running software is legitimate. Built-in security features like SELinux are integrated throughout the entire software stack. Security scanning tools help you identify vulnerable configurations and systems that need patching. Automated configuration management and patching tools help you keep systems in compliance with security policies at all times. And fine-grained controls let you choose how to configure protections for your deployments running on Google Cloud infrastructure.

Improve container security

Containers can improve security, but you must configure and manage them properly to experience these benefits. Red Hat and Google Cloud offer advanced container platforms and tools to help you deploy containers in a more secure way.

Lightweight, container-optimized operating systems reduce attack surfaces. Kubernetes-based orchestration and **security context constraints** let you manage and control containers and pods for maximum protection. Role-based access control (RBAC) prevents unauthorized administrators from modifying configurations. Automatic host change logging and reversion capabilities help to maintain security settings. Trusted, certified base images from **Red Hat Container Catalog** and **Google Cloud** let you deploy properly configured containers quickly and easily. **Red Hat OpenShift®** includes **daemon-less container tools** for more secure builds and safer inspection, verification, signing, and shipment of container images and manifests. Binary authorization ensures that key staff members sign off on images before they go into production. Container image scanning keeps images up to date and in compliance with security policies.

Boost application and data security

Data and applications are frequent targets for cyber criminals. Red Hat and Google Cloud integrate advanced data and application security into their solution foundation to better protect your assets.

Google Cloud's **network infrastructure** protects your data and ensures performance is not impacted by the public internet. Data stored in Google Cloud is encrypted at rest by default. **Data exfiltration controls** help to reduce the risk of insider threats.

Integrated continuous integration/continuous deployment (CI/CD) technologies use built-in operational capabilities to create security-focused pipelines. Red Hat OpenShift lets you define permissible external repositories, apply runtime security policies, and validate image signatures. **Red Hat CodeReady Workspaces** allows you to configure developer tools and Kubernetes-native workspaces for security and control access to centralized source code. **Red Hat OpenShift Service Mesh** lets developers easily integrate network security protocols without explicit coding.

Learn more

IT security is critical for safeguarding your business and its assets. Based on continuous, integrated approaches, Red Hat and Google Cloud offer security-focused solutions that help you support business innovation without compromising protection. Learn more about Red Hat and Google Cloud solutions at redhat.com/en/partners/google and cloud.google.com/solutions/partners/openshift-on-gcp.