Red Hat | **Google** Cloud

Speed AI innovation in the cloud with Red Hat and Google Cloud

80%
of IT leaders believe that generative AI (gen AI) will disrupt their business within the next 18 months.[1]

72%
of executives agree that hybrid cloud will be essential for scaling gen AI.[2]

Key components for deploying AI and ML

▸ Google Cloud

▸ Red Hat Enterprise Linux AI

▸ Red Hat OpenShift AI

▸ Google Cloud Smart Analytics Platform

▸ Google Cloud AI and machine learning products

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Artificial intelligence runs on hybrid and multicloud infrastructure

Across industries, organizations use cloud infrastructure and artificial intelligence (AI) technologies to advance their business and gain competitive advantages. Most organizations have adopted hybrid and multicloud strategies to increase flexibility, efficiency, and innovation while reducing risk. At the same time, advances in AI speed the development of intelligent applications and services. Using AI technologies, businesses can automate critical processes, gain actionable insights, and improve user experiences.

Even so, managing hybrid and multicloud environments efficiently can be challenging. Red Hat and Google Cloud give you the tools and technologies you need to deploy and manage AI-based applications on hybrid and multicloud environments effectively and efficiently. Our flexible, proven, and innovative hybrid cloud solutions provide a solid foundation for deploying modern applications and services, allowing you to integrate AI into your operations while maintaining the agility and security necessary in today's competitive landscape.

Take advantage of artificial intelligence and machine learning

AI and machine learning (ML) technologies employ data to deliver business insight, automate tasks, and advance system capabilities. Red Hat and Google Cloud provide an open foundation and innovative AI and ML services to help you deliver real, data-driven business outcomes. Combining Red Hat® OpenShift® AI and Red Hat Enterprise Linux® AI with Google Cloud analytics, AI, and ML products lets you:

▸ Streamline development of intelligent, AI/ML-based applications with built-in DevOps capabilities.

▸ Create and share containerized modeling results across teams in a consistent, collaborative manner.

▸ Rapidly build, train, and deploy AI/ML models across datacenter and cloud infrastructure using on-demand compute resources, hardware acceleration, and proven cloud services.

▸ Use pretrained models and unified tools to create advanced models with less code.

▸ Easily manage your data and models with confidence and repeatability at scale using MLOps tools.

1 IDC eBook. "Are You Ready for AI Everywhere?" 2024.

2 IBM Corporation. "The CEO's guide to generative AI, cost of compute," 2024.

Key components for streamlining your cloud infrastructure

▸ Google Cloud

▸ Red Hat Enterprise Linux

▸ Red Hat OpenShift

▸ Google Cloud security and identity products

Key components for modernizing your application development

▸ Google Cloud

▸ Red Hat Enterprise Linux

▸ Red Hat OpenShift

▸ Red Hat OpenShift Dedicated

Key components for automating your business

▸ Google Cloud

▸ Red Hat Ansible Automation Platform

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Streamline your hybrid cloud infrastructure and operations

Operating disparate and disconnected IT infrastructure increases operational complexity, security and compliance risks, and overall costs. A consistent, stable, and security-focused hybrid cloud foundation allows you to deploy and run applications and workloads across datacenter and cloud infrastructure to optimize performance, cost, and compliance. Combining Red Hat platforms with Google Cloud lets you:

▸ Deliver a streamlined hybrid cloud experience and easily add new capabilities via integrations between Red Hat and Google Cloud products and services.

▸ Transition to cloud operations, migrate existing workloads and data, and modernize your applications at your own pace—without compromising security, stability, or availability.

▸ Deploy and manage traditional and cloud-native applications in a consistent manner across datacenter and cloud environments.

▸ Control costs through efficient cloud pricing, right-sizing tools, optimized virtual machine types, and unified operations and management.

▸ Reliably deploy third-party applications and services via a large certified partner ecosystem.

▸ Protect your IT environment and business with modern security approaches, advanced tools, data encryption, experience-based best practices, and certification to stringent security standards.

Accelerate application development and delivery

Traditional application development processes are often too slow, dependency-based, and rigid to respond to fast-changing demand for new services and features. Red Hat and Google help you adopt DevOps approaches to speed application development and delivery. With a consistent application platform and integrated development tools and services, you can:

▸ Innovate quickly and cost-effectively and explore new concepts using cloud-based services like databases, maps, and voice recognition tools.

▸ Develop and run applications where it makes the most sense—in your datacenter or in the cloud.

▸ Speed development cycles and accelerate time to market for new applications via self-service provisioning and automated development pipelines.

▸ Give your developers more choice and flexibility with a large selection of built-in languages, tools, services, and workflows.

▸ Focus on delivering exceptional experiences for your customers while an expert SRE team proactively manages application deployment processes.

▸ Integrate trusted third-party services and take advantage of quick installation and frequent, reliable updates.

Automate and speed business and IT operations

Operating multiple IT environments—each with different management tools—can be inefficient and introduce inconsistencies between platforms, resulting in reliability, interoperability, and stability issues. A unified IT automation platform lets you connect and streamline management tools and processes

Deploy more easily with a managed cloud service

Red Hat and Google Cloud deliver a fully managed container environment service to simplify deployment and operations.

Red Hat OpenShift Dedicated on Google Cloud provides:

▸ Trusted core container engines that deliver reliability for critical applications.

▸ Comprehensive application platforms based on more than 40 open source projects.

▸ Consistent hybrid and multicloud platforms across environments.

This cloud service delivers real business benefits, including:

▸ Up to 70% shorter development cycles.[3]

▸ 50% higher operational efficiency.[3]

▸ Higher developer satisfaction and retention.[3]

Learn more about Red Hat OpenShift Dedicated.

across your organization. Combining Red Hat Ansible® Automation Platform with Google Cloud technologies can help you:

▸ Streamline infrastructure and application provisioning, deployment, and management.

▸ Apply and enforce policies automatically to improve security and stability.

▸ Automate tasks to speed operations and eliminate manual errors with more than 100 Ansible modules for Google Cloud infrastructure.

▸ Reduce time spent on tedious tasks and free IT staff to focus on more valuable projects.

▸ Scale application and cloud resources on demand to cut costs associated with overprovisioning, while still maintaining performance and reliability.

▸ Migrate applications between your datacenter and cloud environments rapidly, simply, and reliably with repeatable automation.

Build a trusted hybrid cloud environment with Red Hat and Google Cloud

Since 2013, open source leaders Red Hat and Google Cloud have partnered to deliver exceptional customer experiences across hybrid environments. Red Hat has more than 25 years of experience in bringing open source innovation to the enterprise, while Google Cloud has more than 2 decades of experience in building and operating global-scale services.

With flexible configuration, an open source, security-focused foundation, global network infrastructure, and advanced data analytics, Red Hat and Google Cloud give you the tools and technologies you need to build and operate hybrid and multicloud environments effectively and efficiently. Each component delivers key functionality and value.

▸ Google Cloud delivers innovative, security-focused cloud infrastructure and services that support digital transformation and operations across your organization. Google Cloud solutions help you build effective data clouds, streamline multicloud environments, and encourage collaboration.

▸ Red Hat Enterprise Linux provides a flexible foundation with intelligent features, built-in security, advanced tools, and application portability. It offers an optimized experience from development to deployment of new applications across physical, virtual, cloud, container-based, and edge infrastructure.

▸ Red Hat OpenShift is a trusted, comprehensive, consistent application platform for developing, modernizing, and deploying workloads—including modern, innovative AI applications—at scale.

▸ Red Hat OpenShift Dedicated is a fully managed, turnkey application platform that automates deployment and management of Red Hat OpenShift clusters.

▸ Red Hat OpenShift Virtualization—a component included in Red Hat OpenShift—provides a modern platform for running and deploying new and existing virtual machine workloads. It simplifies migration and management of traditional virtual machines onto a trusted, consistent, and comprehensive hybrid cloud application platform.

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3 Forrester Consulting study, commissioned by Red Hat. "The Total Economic Impact™ of Red Hat OpenShift Cloud Services," February 2024. Results are for a composite organization representative of interviewed customers.

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Build a consistent environ-ment for both enterprise IT and SAP environments

Many organizations rely on their SAP landscape to support their business applications and data. Your Red Hat and Google Cloud foundation can support both your enterprise IT and SAP environments.

Learn more about our solutions for SAP.

▸ **Red Hat Enterprise Linux AI** offers a consistent, stable foundation model platform—based on the IBM Granite family of open source-licensed large language models (LLMs)—that speeds and simplifies development and deployment of innovative, enterprise-ready gen AI solutions.

▸ **Red Hat OpenShift AI** is a flexible, scalable platform that helps enterprise organizations build and deploy AI-based applications and services at scale across hybrid and multicloud environments.

▸ **Red Hat OpenShift Data Foundation** is software-defined storage for containers that offers data portability and dynamic provisioning for applications and Kubernetes constructs.

▸ **Red Hat Ansible Automation Platform** delivers a foundation for building and operating automation across an organization. The platform can help you improve your processes, migrate applications for better optimization, and adopt a single language for DevOps practices across your organization.

▸ **Google Cloud Smart Analytics Platform**—including BigQuery, Dataflow, Dataprep, and Pub/Sub—is a flexible, open, and security-focused analytics platform that helps you build an effective, scalable, and intelligent data cloud.

▸ **Google Cloud AI and ML** products provide continuously updated technologies that help developers focus exclusively on solving problems that matter.

▸ **Google Cloud security and identity products** provide simple, consistent, and transparent protection that helps you meet your policy, regulatory, and business objectives.

Together, Red Hat and Google Cloud help you streamline your cloud environment, speed application development, automate your business, and take advantage of advanced analytics and AI technologies.

Learn more

Modern hybrid and multicloud IT infrastructures can help you meet the demands of digital business. Red Hat and Google Cloud deliver flexible, security-focused hybrid cloud solutions to modernize today and adapt to future change. Accelerate operations and development, use your data effectively, and continuously innovate to stay successful.

Learn more about Red Hat and Google Cloud solutions: redhat.com/en/partners/google.

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 develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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