Red Hat

Accelerate cloud adoption

Plan your journey to hybrid and multicloud deployment with Red Hat

See what's inside

Enterprise cloud use is growing

As technology, customer expectations, and competition change with increasing speed, organizations must operate faster and more flexibly, while continuing to protect assets and data from threats. Hybrid and multic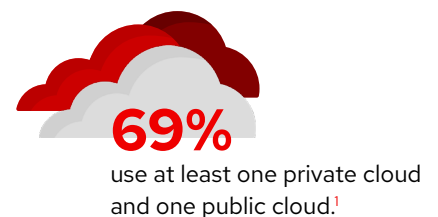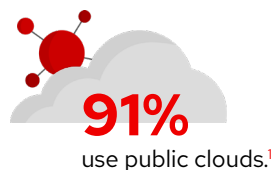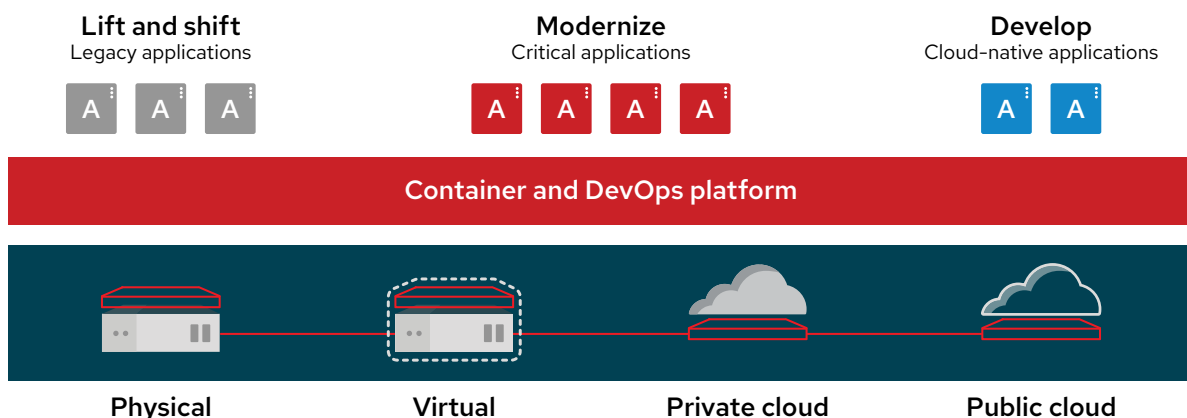loud environments can deliver the speed and agility you need without compromising security. In fact, 94% of surveyed organizations use some type of cloud.[1]

72%
use private clouds.[1]

91%
use public clouds.[1]

69%
use at least one private cloud and one public cloud.[1]

Building an effective hybrid or multicloud environment requires planning. As a result, 58% of organizations have a hybrid cloud strategy, while 84% have a multicloud strategy.[1] Even so, creating a plan that supports your organization's objectives—while also defending your business and preparing you for future change—can be challenging. A holistic, workload-driven strategy can help you achieve these goals. When planning, you should consider:

- Data classification and storage requirements.

- Application and workload performance and security specifications.

- Overall business needs and objectives.

Effective cloud strategies typically involve implementing consistent cloud, application, and management platforms that let you deploy and manage workloads across multiple infrastructures according to performance, security, compliance, and cost requirements. It can be a daunting task, but Red Hat can help.

Lift and shift Legacy applications	**Modernize** Critical applications	**Develop** Cloud-native applications
A A A	A A A A	A A

Container and DevOps platform

Physical   **Virtual**   **Private cloud**   **Public cloud**

1 Flexera, "RightScale 2019 State of the Cloud Report from Flexera," February 2019. **info.flexerasoftware.com/SLO-WP-State-of-the-Cloud-2019**.
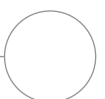
Accelerate cloud adoption with Red Hat

Red Hat® Services Solution: **Hybrid and Multicloud** can help you plan and implement a hybrid and multicloud strategy faster and more easily, with an emphasis on organizational success. Red Hat believes that **open source culture** powers agile hybrid and multicloud practices. Red Hat's open approach helps you:
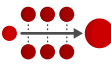
Avoid long-term roadmaps

The pace of technological change is increasing. Plan your technology use just far enough in advance to get started.
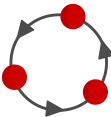
Iterate rapidly

Fast-moving technologies require constant realignment. Use metrics to continuously reassess and improve your infrastructure and processes.

Divide big projects into smaller tasks

Large, long-term projects can be daunting. Break them down into smaller, more manageable tasks.

Collaborate with everyone

Hybrid environments require multiple teams to operate. Align efforts and boost innovation through transparency and inclusion across teams.
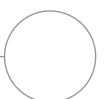
Foster learning

As technology advances, so should your teams' skills. Create a culture of pairing, mentoring, and communities of practice to keep everyone up to date.

Experiment and refine

Innovation requires experimentation. Try new things and learn from successes, failures, and unexpected results.

Go further with a holistic approach

Technology cannot be deployed in a vacuum. People must operate IT infrastructure in defined ways for it to be useful. Red Hat takes a holistic approach to technology adoption that accounts not only for infrastructure components, but also the operational processes and open culture needed to gain the greatest benefit from those components.

Technology
Build open, standards–based, multicloud platforms that provide scale, speed, and flexibility.

+

Process
Inspire innovation and agility with new processes that speed collaboration and foster a sense of community.

+

Culture
Onboard and evolve services and workloads that can readily adapt to market opportunities and feedback.

Your cloud adoption journey with Red Hat

Red Hat uses a proven, programmatic process to help you transform your infrastructure and organization to make the most of hybrid and multicloud technology.

Strategy

Foundation

Adoption

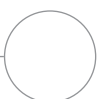Map a journey from your minimum viable product (MVP) to your target state with measurable business outcomes.

Empower a cross–functional pilot team to deliver an operational MVP container environment and workload.

Expand your teams' skills, productivity, and portfolio in increments with measurable value.

Customer success highlights

CATHAY PACIFIC

Cathay Pacific Airways Limited, a major international airline with revenue of US$11 billion, needed to modernize its legacy IT architectures. Cathay Pacific worked with Red Hat to design and implement a modern hybrid cloud IT architecture platform and operating model. This new infrastructure offers on-demand scalability and portability and more efficient and cost-effective work processes. With these changes, Cathay Pacific can be more responsive to customer and business demands.

Increased stability through automation

Reduced server provisioning time to less than one hour

Cut operational costs and saved staff time

Schiphol Amsterdam Airport

Amsterdam Airport Schiphol, Europe's fourth-busiest airport, wanted to improve its passenger experience and become the best digital airport. To support this shift, it decided to migrate several of its IT systems to the cloud to become more flexible, secure, and efficient. Schiphol chose Red Hat solutions for its new hybrid cloud environment, which helps its IT teams quickly and efficiently develop and deploy new customer-facing services.
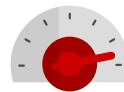
Launched a production cloud platform in 10 days
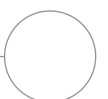
Cut new service development time by 50%

Deployed self-service capabilities for increased agility

We chose Red Hat because of their proven experience, innovative capabilities, and comprehensive cloud suite, as well as ease of access to the team.

Kerry Peirse
General manager, IT infrastructure and operations, Cathay Pacific Airways Limited

Accelerate artificial intelligence and machine learning in the cloud

Artificial intelligence (AI) and machine learning (ML) technologies can improve data analysis and insight to better meet changing market and business demands. Even so, adopting AI and ML in your own organization can be challenging. Legacy IT infrastructure often requires significant investment to deploy new workloads. Agile AI and ML environments typically call for changes to your IT architecture, culture, and processes to be most effective. And proprietary systems frequently lack the flexibility and simplicity needed to manage AI and ML applications at scale.

Red Hat Consulting can help you automate and simplify AI and ML life-cycle operations at scale. Using open source technology and standards, Red Hat subject matter experts work with you to optimize your AI and ML deployments and move to an open solution that gives you more flexibility. The **Red Hat AI and ML architecture** reduces operational complexity and scales seamlessly, so you can innovate and respond to changing needs faster.

Your journey to AI and ML with Red Hat

Red Hat Consulting experts apply products and services in a two-week engagement to help you design, build, and scale an open AI and ML strategy that supports your business requirements.
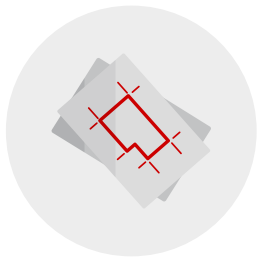
Discover and design

- Conduct architect-led workshops regarding technical and business needs.

- Run workshops with cross-functional stakeholders to create a baseline understanding of the architecture.

Deploy

- Install a non-production Open Data Hub environment.

- Present agile pipelines for data processing and model training.

- Demonstrate a non-production data science workflow.

- Create a prototype ML pipeline as a collection of microservices.

- Establish an automated, containerized application and learning pipeline to promote the benefits to internal stakeholders.

Enable

- Provide side-by-side mentoring throughout the engagement.

- Deliver and review architectural and operational documentation.
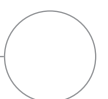
Expand your hybrid and multicloud infrastructure for DevOps

DevOps is an approach to culture, automation, and platform design that can help your deliver increased business value and responsiveness through rapid, high-quality service delivery. However, adopting DevOps approaches can be difficult for many organizations. Cross-team collaboration is critical, but teams may use different terms and languages, resulting in miscommunication. Resources must be readily available for developer onboarding and use, requiring faster deployment. Automation strategies must be created and implemented, and organizations often add new Site Reliability Engineer (SRE) staff roles to teams to help accomplish this.

Hybrid and multicloud infrastructure provides an ideal foundation for agile development environments. Red Hat Consulting can help you deploy a flexible, open infrastructure for DevOps, take advantage of containers, build a continuous integration/continuous deployment (CI/CD) pipeline, and adopt key Infrastructure-as-Code (IaC) practices so that you can deliver more value to your business.

Your journey to DevOps with Red Hat

Red Hat takes an open approach to DevOps deployment and makes use of the extensive knowledge shared by Red Hat experts and the community via the **Open Practice Library**. This repository provides practices and tools based on an outcome delivery framework and foundation layer.

Red Hat provides several engagement paths for deploying DevOps in cloud environments. For example, through **Red Hat Open Innovation Labs**, Red Hat experts work with you and your team to connect the processes, tools, and knowledge needed to increase the pace of innovation. Each Red Hat Open Innovation Labs engagement follows these steps:

- **Discover.** Identify business and end-user challenges and create a strategic roadmap for delivering impactful solutions..

- **Align.** Coordinate cross-functional teams to shared goals and equip them with the open source tools needed for your journey.

- **Build.** Establish trust, encourage collaboration, and empower learning through pairing, mentoring, and other proven methods from the Open Practice Library.

- **Pivot.** Work openly and incrementally in iterative cycles that incorporate learning to build an integrated MVP solution.

- **Demo.** Regularly share your progress with stakeholders to capture feedback, learning opportunities, and ideas for the future.

- **Scale.** Extend gained knowledge throughout your organization with mentorship and enablement resources, including a **Red Hat Learning Subscription**.

DevOps by the numbers

Compared to low-performing DevOps teams, elite performing teams have:
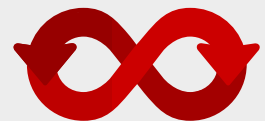
208x
more frequent code deployments.[2]

106x
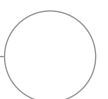faster lead time from commitment to deployment.[2]

2,604x
faster incident recovery times.[2]

7x
lower change failure rates.[2]

Ready to get started?

The future of your business relies on your cloud strategy. Using a holistic approach based on open source culture, Red Hat can help you successfully build a hybrid or multicloud environment to support your business today and tomorrow.

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Schedule a complimentary discovery session:
redhat.com/consulting.

Red Hat