



Red Hat Enterprise Linux and Microsoft Azure

An intelligent, stable, and security-focused operating
foundation for modern IT environments



Hybrid cloud: A business accelerator for digital transformation

87%

of enterprises have a hybrid cloud strategy, and 96% of organizations use at least one public cloud.

Source: Flexera, "[2020 State of the Cloud Report](#)," April 2020.

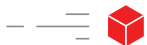
A hybrid cloud approach takes advantage of the cost and agility benefits of public cloud resources while maintaining on-premise infrastructure to meet specific workload, security, or compliance demands.

The benefits of integrating public cloud resources into a hybrid infrastructure are key to competing in today's innovation-driven environment—including unlimited scalability and massive compute performance. However, you must also consider the impact of hybrid cloud on both your organization and its digital transformation journey.

When it comes to hybrid cloud, the question isn't *when* but *how*.

How can you:

- ▶ Build a production-grade cloud environment?
- ▶ Simplify cloud migration with expertise and support?
- ▶ Protect your business with integrated security?
- ▶ Streamline cloud management?



Three considerations for a successful hybrid cloud transition

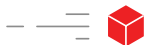
86%

of organizations are using, experimenting with, or planning to use Microsoft Azure.

Source: Flexera, "[2020 State of the Cloud Report](#)," April 2020.

When developing a hybrid cloud strategy, these three considerations will help ensure the successful integration of public cloud resources into a hybrid infrastructure.

- 1. Reduce complexity.** When applications reside in both public cloud and on-premise environments, it can create a high level of complexity. How will you manage applications? Will you have the visibility needed to maintain application performance and stability? Can you ensure configuration security and identify vulnerabilities? Efficient management is key to building applications that can be easily migrated to the cloud and that best practices and processes are put in place.
- 2. Recognize that empowerment can bring risk.** Cloud capabilities allow any team member to deploy infrastructure to meet project needs. Developers can work faster with instant access to the resources and tools they require. While this freedom may accelerate innovation and application development, it can also introduce risk. To reduce this risk, developer resources and tools must be standardized, delivered with security, and aligned with organizational processes.
- 3. Approach cloud as a journey, not a destination.** Embarking on a hybrid cloud journey brings greater flexibility and the opportunity to adopt new ways of working that can help you move faster, innovate, and compete in ways that weren't possible in environments that lacked agility or were cost prohibitive. Where you are today will not be where you are tomorrow, and along that journey, you will encounter new technologies that fundamentally change how you approach application development and your environment. From greater application portability with containers, to lifting and shifting apps, to protecting against an evolving threat landscape, hybrid cloud is a long-term strategy that will evolve with your business.



Building a hybrid cloud to support modern IT

Top cloud initiatives for 2020

1. Optimize existing use of cloud (cost savings).
2. Migrate more workloads to cloud.
3. Expand use of containers.
4. Progress on a cloud-first strategy.
5. Automate policies for governance.

Source: Flexera, "[2020 State of the Cloud Report](#)," April 2020.

With access to new tools and new ways of working, a cloud approach empowers organizations to keep pace with evolving technology. But how do you ensure that you have the most effective, security-focused solutions to keep up with your business?

A hybrid cloud that is built to support the needs of modern IT delivers:



Choice without complexity. Choose where to run your applications—in your datacenter and in the cloud—to expand your IT options without adding complexity.



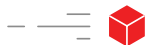
Portability. Benefit from a consistent enterprise platform and application programming interfaces (APIs) for certified apps and containers, creating portability across physical, virtual, and private and public clouds.



Comprehensive support. Access global support across hybrid environments for a consistent support experience.



Manageability. Simply and efficiently manage workloads across physical, virtual, and private and public clouds.



Red Hat Enterprise Linux: Any cloud, any workload, one OS

100%

of commercial banks,
telecommunication companies,
media/technology companies,
and retail companies in the
Fortune Global 500 rely
on Red Hat products.

Source: Red Hat client data and
Fortune Global 500 list for 2021.

Engineered for the cloud, Red Hat® Enterprise Linux® gives organizations a consistent operating system (OS) across public, private, and hybrid cloud environments—and the flexibility to go where your business goes.



Innovate with application streams and enhanced Red Hat Enterprise Linux container tools that give developers the flexibility to build where and how they need to and more easily deploy on Red Hat Enterprise Linux, even at edge sites. Red Hat Enterprise Linux simplifies the build-to-deploy process by standardizing on a set of agreed-upon technologies that are well supported, maintained, security focused, performant, and ready for production deployment.



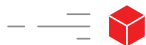
Transform with image builder and Red Hat Enterprise Linux container tools to simplify and accelerate the transformation of workloads across cloud and edge environments. Subscription portability removes complexity and enhances manageability across all footprints, even the cloud.



Optimize by using Performance Co-Pilot, web console, system roles, and Red Hat Insights services that provide guidance and expertise for configuring Red Hat Enterprise Linux and workloads that run on it to achieve optimal performance, increase efficiency, and streamline management at scale.



Protect with Security Content Automation Protocol (SCAP) profiles, system roles, and the Red Hat Insights vulnerability and compliance services that help mitigate risk by identifying vulnerabilities and simplifying the enforcement of security configurations.



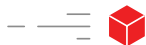
Advance your cloud journey with a hybrid cloud environment from Red Hat and Microsoft

Red Hat and Microsoft use their extensive experience to build advanced security features into Red Hat Enterprise Linux and Microsoft Azure. This partnership helps you reduce risk, maintain a security-focused operating environment, and better protect your organization's most important data.

With Red Hat and Microsoft, you can quickly deploy a more secure, reliable, flexible hybrid cloud environment that positions your organization for success in fast-changing, competitive markets.

Running Red Hat Enterprise Linux on Microsoft Azure and Azure Stack lets you extend your existing datacenter into a connected cloud environment that meets rapidly evolving business needs.

- ▶ Quickly launch and scale applications and improve reliability, security, and performance with tested and certified interoperability across on-premise and cloud environments.
- ▶ Protect your data, applications, and business and infrastructure with advanced, integrated security features that work across your hybrid environment.
- ▶ Integrate traditional on-premise applications and cloud-native workloads with a consistent, hybrid foundation.
- ▶ Run cloud-native applications on-premise to meet latency and connectivity requirements for edge and disconnected solutions.
- ▶ Provide simple cloud management with unified tools and visibility.
- ▶ Save up to 85% compared to standard pay-as-you-go rates with Azure Hybrid Benefit.¹
- ▶ Achieve a lower cost of ownership when you combine Azure Hybrid Benefit, reservations savings, and extended security updates.¹



Enterprise support and expertise ease migration

66%

of organizations say migration
is a top cloud challenge.

Source: Flexera, "[2020 State of the Cloud Report](#)," April 2020.

Together, Red Hat and Microsoft provide an integrated, enterprise support system for customers running Red Hat solutions on Microsoft Azure. This complete support experience features multilingual engineers across 18 regions, colocated staff from both companies, an integrated ticketing system, and a coordinated escalation and resolution process.

Red Hat and Microsoft's integrated support, a unique offering in the IT world, delivers an efficient experience for customers seeking to address technical challenges.

Get started

Discover how Red Hat Enterprise Linux provides an intelligent, stable, and security-focused operating foundation for modern IT environments on Microsoft Azure.

Get started with [Red Hat Enterprise Linux8 in Azure Marketplace](#).

