

A hybrid and multicloud strategy for developers

Simplify and accelerate development across private and public clouds

Highlights

- Use the same familiar Red Hat environment and tools on-premise and in the cloud or clouds of your choosing.
- Apply your existing Red Hat subscriptions in any cloud infrastructure, public or private, with the Red Hat Cloud Access program.
- Depend on certified Red Hat solutions across public cloud providers with the Red Hat Certified Cloud and Service Provider program.
- Deploy a consistent container-based application environment across any Red Hat certified cloud platform with Red Hat OpenShift.

Introduction

Public cloud models are increasingly driving the ways that applications are developed and deployed. The elasticity, scalability, and speed of deploying applications in the public cloud are compelling, with innovative new microservices-based architectures enabled by containers and Kubernetes operators promising to reduce application development times, improve agility, and accelerate time to market for critical applications. The realities for developers working in hybrid and multicloud environments, however, can be challenging:

- Multiple development and deployment models specific to individual public cloud vendors can create complexity and confusion for developers, forcing them to understand and accommodate the peculiarities of each public cloud platform.
- A lack of standardization between private cloud vendors often means that using available cloud functionality locks apps into specific cloud platforms, ultimately limiting application portability.
- Developers need the agility to be able to select hybrid cloud models that make the most sense for the application and the business. These options include lift-and-shift models to rapidly move existing on-premise apps to the cloud, as well as new scalable, secure, and resilient microservices-based application architectures.

As experts in creating enterprise products from innovative open source initiatives, Red Hat understands that developers need to be able to select the tools and environments that make sense for their applications. With Red Hat® OpenShift® and Red Hat Enterprise Linux®, we offer a comprehensive infrastructure platform that enables compute, storage, and networking to be deployed on demand, across on-premise and public multicloud resources. Red Hat's hybrid cloud platform offers a consistent experience for developers, giving you:

- The ability to rapidly scale on-premise infrastructure to the public cloud.
- Portability and standardization of resources across hybrid clouds, and between cloud providers.
- Tools for both lift-and-shift app migration and cloud-native app development.

Deploy a familiar Red Hat environment and tools in the cloud

Despite its advantages, the public cloud can represent a different and unfamiliar world, with infrastructure, management, and automation that is often quite different from what organizations use in their own datacenters. These aspects can also vary significantly between various cloud providers, requiring different experiential skills. Once applications and operations are designed and coded to run on a particular cloud provider, it can also be challenging to move workloads to another public cloud, or bring them back to on-premise infrastructure, creating lock-in.



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Red Hat's approach is to provide the same familiar (and certified) environment and tools on-premise and in the cloud, capitalizing on existing skills while providing access to new cloud-specific development and deployment models. Red Hat offers access to an integrated suite of open source software that combines a container- and Kubernetes-based application development platform, a full middle-ware stack, and serverless functions. The software includes:

- [Red Hat Enterprise Linux](#),¹ the world's leading enterprise Linux platform for a reliable and scalable operating system foundation.²
- [Red Hat OpenShift](#),³ an enterprise Kubernetes container platform for hybrid cloud and multicloud, optimized to improve developer productivity and promote innovation.
- [Red Hat OpenShift Container Storage](#),⁴ software-defined storage specifically built for container environments.
- [Red Hat Insights](#)⁵ to proactively identify and remediate threats to security, performance, availability, and stability.
- [Red Hat Middleware](#)⁶ to create a unified environment for application development, delivery, integration, and automation.

Move your subscriptions to the cloud

The [Red Hat Cloud Access program](#)⁷ eases the transition to the cloud by allowing Red Hat product subscriptions to run on certified public cloud providers. Familiarity with trusted Red Hat solutions lets IT organizations move faster as they adopt public cloud solutions and deliver services to the marketplace more quickly. With portable subscriptions, teams can choose the best architecture and infrastructure for their needs, whether in their datacenter or the public cloud.

Pick a cloud, any cloud

While most public cloud vendors provide similar services, there is little standardization between clouds. Even small differences between cloud platforms can cause headaches for operations and developers, costing productivity and restricting agility. Red Hat solves this issue with the [Red Hat Certified Cloud and Service Provider \(CCSP\) program](#).⁸ Red Hat has worked with more than 1,000 program partners to engineer and test Red Hat products on partners' cloud platform solutions, ensuring that technologies work together. Red Hat works closely with major public cloud providers, co-engineering and certifying Red Hat solutions. Any custom or third-party app that runs on Red Hat Enterprise Linux runs the same way on a certified public cloud.

¹ <https://www.redhat.com/en/technologies/linux-platforms/enterprise-linux>.

² IDC. "Worldwide Server Operating Environments Market Shares, 2018: Overall Market Growth Accelerates." Released Nov. 2019.

³ <https://www.redhat.com/en/technologies/cloud-computing/openshift>.

⁴ <https://www.redhat.com/en/technologies/cloud-computing/openshift-container-storage>.

⁵ <https://www.redhat.com/en/technologies/management/insights>.

⁶ <https://www.redhat.com/en/products/middleware>.

⁷ <https://www.redhat.com/en/technologies/cloud-computing/cloud-access>.

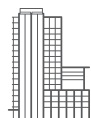
⁸ <https://www.redhat.com/en/certified-cloud-and-service-providers>.

Conclusion

Whether you are just getting started lifting and shifting your first application or are pushing forward with cloud-native development, Red Hat can help you accelerate on your path to embracing hybrid and multicloud environments. With Red Hat OpenShift, Red Hat offers a consistent enterprise Kubernetes-based application platform that provides security and reliability, no matter where the application runs. Certified with all of the strategically important public clouds, Red Hat software gives you the freedom to choose the right platform for the right workload, without being locked into the implementation details of a particular public cloud. The Red Hat Cloud Access program is a free benefit of certain Red Hat products, allowing you to use your Red Hat subscriptions on Red Hat CCSPs.

For more information on how Red Hat can help you embrace hybrid and multicloud environments, visit <https://www.redhat.com/en/solutions/hybrid-cloud-infrastructure>.

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.



facebook.com/redhatinc
@RedHat
linkedin.com/company/red-hat

North America
1 888 REDHAT1
www.redhat.com

**Europe, Middle East,
and Africa**
00800 7334 2835
europe@redhat.com

Asia Pacific
+65 6490 4200
apac@redhat.com

Latin America
+54 11 4329 7300
info-latam@redhat.com