A hybrid and multicloud strategy for CIOs

Embrace the public cloud with predictable cost and risk

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

Digital transformation and cloud initiatives are expanding rapidly, changing how organizations think about deploying application technology. The elasticity, scalability, and speed of the public cloud are undeniable, potentially contributing to an organization's ability to drive business and reduce costs while managing data growth and increasing agility. For chief information officers (CIOs), however, moving to the hybrid or public cloud can present significant challenges:

- An effective cloud strategy must balance the effort and risk associated with introducing new cloud-based technologies against the attainable benefits.

- Technical, business, and ecosystem differences among cloud providers imply significant variations in terminology, customer life cycle, required skills, and costs, potentially contributing to operational complexity.

- Organizations need to transition smoothly from existing datacenter environments while extending existing security, regulatory, and compliance policies into the public cloud.

As experts in creating enterprise products from innovative open source initiatives, Red Hat is an ideal partner to help ease and accelerate your move to the cloud. 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:

- Security, heterogeneity, and high performance that can span multiple cloud environments, allowing the deployment and management of applications and workloads on any public cloud.

- The flexibility to deploy within the public cloud the Red Hat® technologies currently used in the datacenter, allowing the transfer of management and application development skills to the public cloud.

- Simplicity, consistent user experience, and reduction of operational complexity across a variety of platforms, using certified Red Hat service providers to enable a common set of operating system infrastructure and container platforms across private and public clouds.

Deploy familiar Red Hat environments and tools in the cloud

Despite its advantages, the public cloud can represent an 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 among 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.

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 middleware stack, and serverless functions. The software includes:

- Red Hat Enterprise Linux®.[1]

- Red Hat OpenShift®.[2]

- Red Hat OpenShift Container Storage.[3]

- Red Hat Insights.[4]

- Red Hat Middleware.[5]

The resulting environment is massively scalable, with a unified management framework that supports deploying workloads across any cloud environment. This successful approach is reflected in the rapid growth of server operating environments generally (and Linux in particular) in the cloud, with Linux becoming the foundation for most new cloud services (e.g., containers).[6]

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. Advantages of this approach include:

- Preserving your existing IT investment and maintaining consistency.

- Moving to the cloud on your terms, with confidence.

- Retaining your trusted support resources.

- Gaining portability between your datacenter and public clouds.

---

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

2 https://www.redhat.com/en/technologies/cloud-computing/openshift.

3 https://www.redhat.com/en/technologies/cloud-computing/openshift-container-storage.

4 https://www.redhat.com/en/technologies/management/insights.

5 https://www.redhat.com/en/products/middleware.

6 IDC InfoBrief, sponsored by Red Hat. "Moving to the Public Cloud: The Strategic Role of Server Operating System Environments," Apr. 2019. https://www.redhat.com/en/resources/public-cloud-sever-operating-system.

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

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 co-engineer and certify Red Hat products on partners' cloud platform solutions, ensuring that technologies work together. In fact, several CCSPs base their container services on Red Hat OpenShift. Any custom or third-party app that runs on the Red Hat stack runs the same way on a certified public cloud.

Conclusion

Red Hat can help you accelerate on your path to embracing hybrid and multicloud environments with predictable costs and risks. Red Hat offers a consistent 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.

---

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

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.

North America	Europe, Middle East, and Africa	Asia Pacific	Latin America
1 888 REDHAT1	00800 7334 2835	+65 6490 4200	+54 11 4329 7300
www.redhat.com	europe@redhat.com	apac@redhat.com	info-latam@redhat.com