Red Hat

Brief

A hybrid and multicloud strategy for site reliability engineers

Streamline operations with a common set of proven infrastructure

Highlights

- Deploy a consistent container-based application environment across any Red Hat certified cloud platform with Red Hat OpenShift.
- 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.

Introduction

Digital transformation and cloud initiatives are expanding rapidly, dramatically changing how organizations develop, deploy, and manage applications across their life cycle. The advent of containers and Kubernetes orchestration has changed everything, making infrastructure more programmable and automatic. Yet challenges remain as site reliability engineers often struggle to manage, monitor, and automate applications between on-premise infrastructure and across multiple public clouds.

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 a consistent user experience for both operations and developers.

Red Hat® OpenShift® provides a common platform across all public and private clouds, offering an enterprise-grade Linux® operating system, container runtime, networking, monitoring, registry, and authentication and authorization solutions. It lets you automate life-cycle management to get increased security, tailored operations solutions, easy-to-manage cluster operations, and application portability. The platform provides many advantages, including:

- Enterprise Kubernetes for full-featured automation.
- On-demand application stacks and precreated application quick-start templates.
- Code-and-push building and deployment for containerized apps.
- Streamlined delivery with standardized developer workflows that support multiple environments.

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 also can 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, virtual machines (VMs), and serverless functions. The software includes:

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

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 in the cloud, with Linux becoming the foundation for most new cloud services (e.g., containers).[2]

Move your subscriptions to the cloud

The Red Hat Cloud Access program 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. 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.

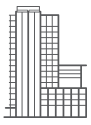
1 *IDC. "Worldwide Server Operating Environments Market Shares, 2018: Overall Market Growth Accelerates." Released Nov. 2019*

2 *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.*

Conclusion

As you push forward with cloud-native development and Kubernetes automation, Red Hat can help you accelerate on your path to embracing hybrid and multicloud environments. 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.



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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.

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