

# Simplify the migration of virtualization applications

Red Hat Service Interconnect uses a Virtual Application Network to abstract physical interconnections away from applications, allowing them to be moved across environments without the need to change the application code specific to those connections.

## **Maximize the effectiveness of virtualization transitions**

As the virtualization market evolves, many organizations are seeking alternatives for their traditional virtualization deployments. Some are looking to "lift and shift" their virtual machine (VM) environments to a different virtualization platform with more advantageous commercial terms, while others are transitioning to cloud-native architectures for many of their applications. Regardless of which path your organization takes, these changes do not occur at the flip of a switch. It is vital that traditional applications and environments not only interact with applications which have been refactored into their new environments, but that they can do so with zero or minimal disruption when this switchover occurs.

Red Hat® Service Interconnect, built on the [Skupper](#) open-source project, delivers the ability to connect applications and services running on a variety of physical or virtual environments. This includes those from bare-metal or virtualized platforms, to public-cloud based Kubernetes environments, to Red Hat OpenShift® deployments on-premise or in a cloud.

## **Accelerate migration with Red Hat Service Interconnect**

Service Interconnect provides a number of direct benefits to organizations looking to migrate their applications from a traditional virtualization environment to a new platform.

**Make use of existing assets.** Service Interconnect provides streamlined connectivity between traditional deployments and cloud-based infrastructure, which allows existing applications to continue to communicate with new applications or services. This benefits your organization as it can continue to use existing assets during a transition.

**Minimize downtime and distribution.** Service Interconnect provides traffic switchover, minimizing downtime and distribution for critical business applications.

**Remove the need for a dedicated migration team.** Service Interconnect can run on traditional and cloud-native environments, which means that applications do not need to be rewritten to adapt to the change in physical location. As such, your organization can plan a controlled migration of applications to new environments, without having to allocate large teams dedicated to development of a migration program.

**Provide self-service for developers while maintaining a strong security focus.** Service Interconnect allows infrastructure operators to provide their developers with the ability to self-serve the creation of connections between properties, while still maintaining a focus on security and control over those connections. Providing this simple capability can help reduce the potential for rogue tools or topologies being deployed directly by your development teams.

The portability of Service Interconnect means your organization can first migrate away from your traditional virtualization provider, and then begin a more structured migration to a cloud-native architecture for your applications.

## Capabilities of Red Hat Service Interconnect

**Enhanced availability.** Service Interconnect provides the ability to implement real-time, active-active failover from a traditional virtualization environment to the new platform, which provides a high level of fault tolerance for other applications or services relying on the application in transition.

If you are migrating traditional virtualized applications to a new platform, this capability can help raise your disaster recovery posture by running the redundant applications on both traditional and new infrastructure. This provides peace of mind during what can be a tumultuous transition period.

**Simplified deployment.** Interconnections between properties can be effectively established with the use of only a few command line interface (CLI) inputs, allowing developers to efficiently spin up and tear down connections during the development and testing of applications. This also allows infrastructure teams to automate these processes for production deployments.

**Application portability.** Applications and their associated networking are completely portable across different environments without any additional configuration—easing complex migrations and providing benefits such as increased operational efficiency. If an application needs to move to a different environment, the connectivity follows along with it.

**Security-focused connectivity between applications and services.** Service Interconnect is equipped with built-in security features that scale across clusters and clouds by default. The connections between Service Interconnect routers implement mutual transport layer security (TLS) using a private, dedicated certificate authority (CA). Each router is uniquely identified by its own certificate. This means that the Service Interconnect network is isolated from external access, mitigating security risks such as lateral attacks, malware infestations, and data exfiltration.

## Make your virtualization migrations more efficient with Red Hat Service Interconnect

If your organization faces economic and other challenges, Red Hat Service Interconnect can be a valuable solution to help you expeditiously migrate away from traditional virtualization environments which may have become probability expensive—providing options for migration to a new virtualization environment, or supporting your organization's application modernization to a cloud-native architecture in the hybrid cloud.

## Get started with Red Hat Service Interconnect

To learn more, visit the [Red Hat Service Interconnect page](#) or the [developer page](#).

You can also try Service Interconnect now with the [no-cost, 60-day product trial](#).



## About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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