



# Red Hat Service Interconnect 1.4

## Introduction

Key features and supported configurations



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## Abstract

This guide introduces Red Hat Service Interconnect and describes a service network. Red Hat Service Interconnect is a Red Hat build of the open source Skupper project.

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## Table of Contents

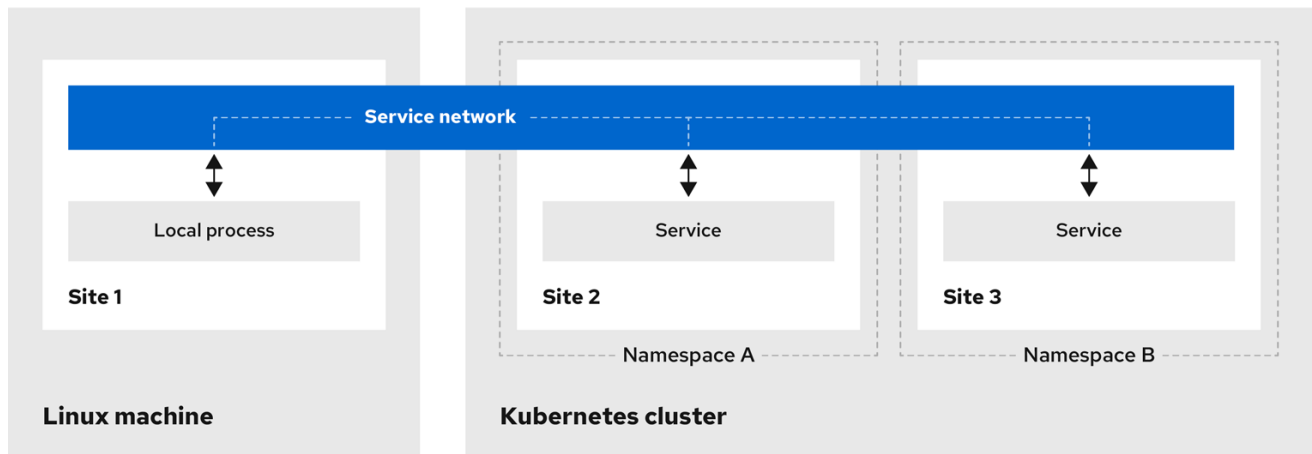
CHAPTER 1. KEY FEATURES .....	3
CHAPTER 2. SUPPORTED STANDARDS AND PROTOCOLS .....	4
CHAPTER 3. SUPPORTED CONFIGURATIONS .....	5
CHAPTER 4. RESOURCES .....	6
APPENDIX A. ABOUT SERVICE INTERCONNECT DOCUMENTATION .....	8
MAKING OPEN SOURCE MORE INCLUSIVE .....	8



## CHAPTER 1. KEY FEATURES

Red Hat Service Interconnect is a Red Hat build of the open source [Skupper](#) project. Skupper introduces a service network, linking services across the hybrid cloud.

A service network enables communication between services running in different network locations. It allows geographically distributed services to connect as if they were all running in the same site.



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The following are key features of Skupper:

- Private to public site connectivity: You expose only specific services and ports to a remote site.
- Minimal effort: A few **skupper** CLI commands to expose services from one site to another.
- Security: mTLS for all cross site communication.
- Load balancing and failover of services.

## CHAPTER 2. SUPPORTED STANDARDS AND PROTOCOLS

Red Hat Service Interconnect supports the following TLS versions for site links:

- TLS 1.2
- TLS 1.3



## CHAPTER 3. SUPPORTED CONFIGURATIONS

You can create sites on OpenShift Container Platform versions 3.11, 4.10, 4.11 and 4.12. Commercially reasonable support is provided for any [CNCF Certified Kubernetes](#) cluster

The **skupper** CLI is supported on:

- RHEL 8 and 9

Gateways are supported on:

- RHEL 8 and 9

Ingress types:

- LoadBalancer
- OpenShift Routes



### NOTE

If you have applications that require long lived connections, for example Kafka clients, consider using a load balancer as ingress instead of a proxy ingress such as OpenShift route. If you use an OpenShift route as ingress, expect interruptions whenever routes are configured.

For more information, see [Red Hat Service Interconnect Supported Configurations](#) .

## CHAPTER 4. RESOURCES

The following resources are available:

- [Skupper - Getting started](#)
- [Skupper - Examples](#)
- [Skupper - Using the Skupper CLI](#)
  - [Creating a site using the CLI](#)
  - [Custom sites](#)
  - [Linking sites](#)
  - [Specifying link cost](#)
  - [Exposing services on the service network from a namespace](#)
  - [Exposing services on the service network from a local machine](#)
  - [Exploring a service network](#)
  - [Securing a service network](#)
  - [Supported standards and protocols](#)
  - [CLI options for working with different clusters](#)
- [Skupper - Using Skupper podman](#)
  - [About Skupper podman](#)
  - [Creating a site using Skupper podman](#)
  - [Linking sites using Skupper podman](#)
  - [Working with services using Skupper podman](#)
- [Skupper - Using the Skupper console](#)
  - [Enabling the Skupper console](#)
  - [Accessing the Skupper console](#)
  - [Exploring the Skupper console](#)
- [Skupper - Configuring Skupper sites using YAML](#)
  - [Creating a Skupper site using YAML](#)
  - [Linking sites using YAML](#)
  - [Configuring services using annotations](#)
  - [Appendix A: Site ConfigMap YAML reference](#)

- Skupper - Troubleshooting a service network
  - Checking sites
  - Checking links
  - Checking gateways
  - Creating a Skupper debug tar file
  - Improving Skupper router performance
  - Resolving common problems
- Skupper - Securing a service network using policies
  - About the policy system
  - Upgrading on a cluster with existing sites
  - Creating policies for the policy system
  - Exploring the current policies for a cluster
- Creating a site using the Skupper Operator

## APPENDIX A. ABOUT SERVICE INTERCONNECT DOCUMENTATION

### MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

*Revised on 2023-11-15 15:17:54 UTC*