

cSRX Container Firewall

Product Overview

The cSRX container firewall delivers a complete virtual firewall solution, including advanced security and automated life cycle and policy management capabilities for service providers and enterprises. The cSRX empowers security professionals to deploy and scale firewall protection in highly dynamic environments.

Product Description

To achieve business agility, customers increasingly leverage an SDN framework to instantiate virtual private clouds on demand. Automated deployment of networks and workloads requires that network functions be equally agile. Whether customers build their virtual clouds in house (private) or in hosted environments (public), one of the key requirements is a consistent security posture.

Deploying virtualized network functions (VNFs) helps achieve this consistent security posture. However, most available VNFs—especially when it comes to security services—aren't suitable for rapid deployments due to their size and boot times. A VNF could take up to three minutes to boot, and it requires static reservation of resources like vCPU and vRAM. While this might be acceptable for current environments, customers looking to increase the breadth of their infrastructure security coverage prefer a smaller, faster, more lightweight security VNF.

Service providers offering differentiated security services to huge subscriber bases are looking for significantly higher density than what is offered by virtual machine (VM)-based firewalls. By adopting a micro-services approach, paying only for the services they use and reducing the need to deploy high-density security solutions in the infrastructure, service providers can drive down both CapEx and OpEx.

Juniper addresses these requirements by offering a pure-play "security services VNF" in a containerized version of the Juniper Networks® SRX Series Services Gateways*. The cSRX container firewall allows both enterprises and service providers to significantly increase agility and the breadth of their advanced security service deployments.

By leveraging Docker as a container management solution, the cSRX provides easy, flexible, and highly scalable deployment options that cover a variety of customer use cases. The cSRX also supports SDN via Juniper Networks Contrail, OpenContrail, and other third-party solutions, and it can be integrated with other next-generation cloud orchestration tools such as OpenStack, either directly or through rich APIs.

Architecture and Key Components

Advanced Security Services

Implementing nonintegrated legacy systems built around traditional firewalls and individual standalone appliances and software is no longer enough to protect against today's sophisticated attacks. Juniper's advanced security suite enables users to deploy multiple technologies to meet the unique and evolving needs of modern organizations and the constantly changing threat landscape. Real-time updates ensure that the technologies, policies, and other security measures are always current.

The cSRX container firewall delivers a versatile, powerful, and virtualization-specific set of advanced security services, including unified threat management (UTM), intrusion detection and prevention (IDP), and application control and visibility services through AppSecure.

* This product is currently in Beta. For information, please contact your local Juniper sales representative or partner.



Simple Configuration

The cSRX container firewall supports only “bump-in-the-wire” L2 deployment using two basic features: zones and policies. The default configuration contains, at a minimum, a “trust” and an “untrust” zone. The trust zone is used for configuration and attaching the internal network to the cSRX, while the untrust zone is commonly used for untrusted networks. To streamline installation and make configuration easier, a default policy is in place that allows traffic originating from the trust zone to flow to the untrust zone but blocks traffic originating in the untrust zone from flowing to the trust zone. Security policies determine if a session can originate in one zone and be forwarded to another. The cSRX receives packets and keeps track of every session, application, and user; as workloads move within a virtualized or cloud environment, they will still send packets to the cSRX for processing, continuously communicating in a secure mode.

Junos Space Security Director

Juniper Networks Junos® Space Security Director provides security policy management for the cSRX container firewall through an intuitive and centralized web-based interface that offers enforcement across emerging and traditional risk vectors. As an application on the Junos Space platform, Security Director provides extensive security scale, granular policy control, and policy breadth across the network. It also helps administrators quickly manage all phases of the security policy life cycle.

Features and Benefits

The cSRX container firewall comes with the following features and associated benefits:

- Offers a small footprint and delivers highly agile advanced security services in a container form factor
- Leverages the same consistent, advanced security features as the SRX Series Services Gateways
- Defends against an increasingly sophisticated threat landscape by integrating powerful UTM, IPS, and application visibility and control capabilities for a comprehensive threat management framework

- Improves management flexibility with open RESTful APIs to support integration with third-party management and cloud orchestration tools
- Expands visibility into and control over firewall security policy configuration and management across virtual and non-virtual environments with Junos Space Security Director
- Supports SDN and Network Functions Virtualization (NFV) via integration with Contrail, OpenContrail, and other third-party solutions

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services that are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value for your network. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/us/en/products-services.

Ordering Information

For more information about Juniper Networks cSRX container firewall, please visit www.juniper.net/us/en/products-services/security/srx-series/csrx or contact the nearest Juniper Networks sales representative.

About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at Juniper Networks or connect with Juniper on [Twitter](https://twitter.com/juniper) and [Facebook](https://facebook.com/juniper).

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