Juniper Networks and Corero Join Forces to Deliver a High-Performance DDoS Solution

Challenge

Distributed denial of service (DDoS) attacks occur when multiple compromised machines, numbering in the thousands, act in concert to flood a targeted website, network, or server with overwhelming amounts of traffic, resulting in performance degradation or service interruption. Today, these attacks take two basic forms: large numbers of packets from multiple source IP addresses simultaneously sent to a single targeted address or host; or extended waves of traffic sent over an extended length of time. DDoS attacks continue to grow, both in number and complexity; Corero customers report an average of five attack attempts per day.

Solution Description

Juniper Networks infrastructure and Corero SmartWall® Threat Defense System (TDS) work together to defend against DDoS attacks and mitigate their impact on service provider infrastructure, hosting providers, cloud service providers, and enterprise data centers.

The SmartWall TDS utilizes a modern DDoS mitigation architecture to automatically and surgically remove a wide range of DDoS attacks while allowing good user traffic to flow uninterrupted.

The Corero SmartWall TDS is capable of real-time DDoS mitigation in 10 Gbps to 100 Gbps increments, providing line-rate protection against multiple types of DDoS attacks.

Deploying the Corero SmartWall TDS is as simple as creating two virtual routing and forwarding (VRF) instances. Service provider connections to the MX Series router use the "dirty" VRF, which forwards traffic to the egress port connected to the SmartWall TDS. The SmartWall TDS blocks bad packets and sends good traffic to the second "clean" VRF on the MX Series device.

Solution Components

Corero SmartWall Threat Defense System: Dedicated technology that mitigates DDoS attacks in seconds rather than minutes. By providing configurable policies to selectively enable a broad range of specific protection mechanisms, this modern technology defends critical network assets against DDoS attack traffic. To learn more, visit Corero SmartWall TDS.

Corero SecureWatch Analytics: Provides robust reporting and analytics, powered by Splunk, to transform sophisticated DDoS event data into easily consumable dashboards. To learn more, visit Corero SecureWatch Analytics.

Juniper Networks MX Series 3D Universal Edge Routers: A comprehensive, scalable, and secure portfolio of routers for enterprise and service provider networks. To learn more, visit the MX Series product page.

Juniper Networks QFX Series Switches: High-performance, high-capacity switches for today's most demanding enterprise and service provider environments. To learn more, visit the QFX Series Switches product page.
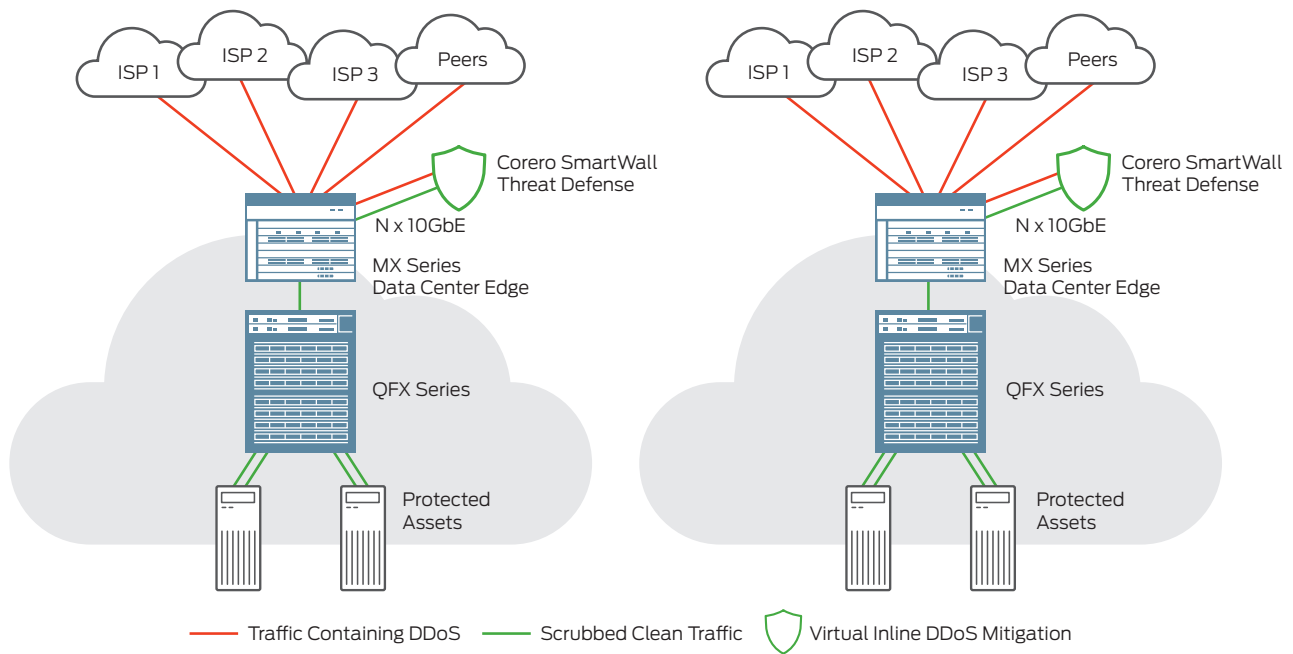
Figure 1: Use case—always on/online enterprise

Summary—Protection and Mitigation of DDoS Attacks

The Internet of Things (IoT) provides attackers with a virtually limitless number of targets for attacks intended to disrupt business and services. In October 2016, the Dyn DDoS attack targeted managed DNS infrastructure using around 100,000 malicious endpoints to create a service disruption[1].

The joint Juniper-Corero solution provides flexible deployment models, reduced OpEx, high performance with scale-out capabilities, and an integrated approach for defending against current DDoS attack vectors. Installing a Corero appliance in front of a Juniper edge or core device prevents attackers from disrupting your business.

Next Steps

To learn how the Juniper-Corero joint DDoS solution can benefit your business, please visit www.juniper.net/us/en/partners/technology-alliances/security or contact your Juniper Networks representative.

[1] Dyn Analysis Summary of Friday October 21 Attack, Company News by Scott Hilton

About Corero

Corero Network Security is the leader in real-time, high-performance DDoS defense solutions. Service providers, hosting providers, and online enterprises rely on Corero's award-winning technology to eliminate DDoS threats to their environment through automatic attack detection and mitigation, coupled with complete network visibility, analytics, and reporting. This industry-leading technology provides cost-effective, scalable protection capabilities against DDoS attacks in the most complex environments while enabling a more cost-effective, economic model than previously available. For more information, visit www.corero.com.

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 and Facebook.

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