

Whitepaper

Downtime Is Not an Option: High Availability

FORCEPOINT™ NEXT GENERATION FIREWALL

Access to applications, data, and resources on the Internet is mission-critical for every organization. Downtime is unacceptable. Security for that network must also be highly available and not cause performance degradation of the network. The increased workload of security devices as they analyze traffic and defend users from malicious attacks strains computing resources. The next generation of security solutions must build in high availability that can scale as the business changes.



Contents

Drop-in Active Clustering	3
Redundancy with Augmented VPNS	3
Zero Downtime from Maintenance	3
Centralized Management for Faster Response	3
Time Specifications	4



High availability is at the core of Forcepoint Next Generation Firewall. Through active-active clustering of up to 16 nodes, it offers greater flexibility in situations where process-intensive security applications, such as deep inspection or VPNs, require better performance. Transparent session failovers and support for running different software versions in the same cluster allow administrators to upgrade software and services on firewalls with no downtime. Native clustering means no extra load-balancing systems that add complexity. And through Forcepoint Multi-Link, high availability is also extended to cover network and IPsec VPN connections.

Forcepoint Next Generation Firewall high-availability is built into every module:

- Dynamic server load balancing
- Active-active clustering
- Management redundancy
- Firewall integrated server load balancing
- Forcepoint Multi-Link technology for VPN failover

DROP-IN ACTIVE-ACTIVE CLUSTERING

Drop-in active clustering enables the unique clustering of up to 16 devices so organizations are assured the highest availability and scalability from the core to the edge of their networks without the need for expensive standby systems. With drop-in technology, clusters can be easily added into existing infrastructures without complex configuration requirements. When a three-node cluster is configured with a Forcepoint Multi-Link dual circuit, a five-9, nearly fault-tolerant network can be achieved.



Figure 1. High availability is configured and managed through the Forcepoint Security Management Center.

KEY ADVANTAGES

Active-Active Clustering

Allows uninterrupted operations during system maintenance and updates.

Resilience

Combining the links into the augmented VPN removes the dependency of a MPLS circuits and no longer is the single point of failure as an individual link.

REDUNDANCY WITH AUGMENTED VPNS

Forcepoint Augmented VPN eliminates an individual Internet Service Provider as a single point of failure by allowing your organization to establish multiple Internet links simply and do so cost effectively. All of the links are active and in use. If one link fails, traffic is automatically transferred over to the remaining links. Augmented VPN supports a combination of all kinds of Internet links, such as any type of DSL, mobile broadband, leased lines, modem connection, and even satellite. With Forcepoint Augmented VPN, companies know they will always have Internet connectivity when they need it.

ZERO DOWNTIME FROM MAINTENANCE

High availability also means easier, uninterrupted maintenance. By leveraging high-availability technology, you can upgrade your clusters node by node without service breaks. Clusters can operate with different software versions and even with different hardware nodes during maintenance.

CENTRALIZED MANAGEMENT FOR FASTER RESPONSE TIME

High network availability requires that your team knows what's going on with your network at any given time. Running back and forth to different devices doesn't work even if you can log in remotely. It takes too much time and is not coordinated. You have to rely on a centralized management system. Forcepoint Next Generation Firewall acts as the core of your network security, centralizing the monitoring, management, and reporting across diverse virtual, physical, and third-party devices. Your team also has the benefit of real-time visualization of network operations, improving response time for recognition and remediation of incidents and threats.



DIMENSIONS, WEIGHT, ENVIRONMENTAL							
Width	16.9 in 42.93 cm	16.9 in 42.93 cm	16.9 in 42.93 cm	17.2 in 43.8 cm	18.9 in 48.04 cm	18.9 in 48.04 cm	18.9 in 48.04 cm
Depth	8.5 in 21.59 cm	28.0 in 71.12 cm	28.0 in 71.12 cm	24.4 in 61.87 cm	30.0 in 76.21 cm	30.0 in 76.21 cm	30.0 in 76.21 cm
Height	1.7 in 4.32 cm	1.7 in 4.32 cm	1.7 in 4.32 cm	1.7 in 4.32 cm	3.4 in 8.71 cm	3.4 in 8.71 cm	3.4 in 8.71 cm
Weight	10.93 lbs 4.96 kg	25 lbs 11.34 kg	25 lbs 11.34 kg	22 lbs 9.98 kg	40 lbs 18.14 kg	40 lbs 18.14 kg	40 lbs 18.14 kg
Power Supply Details	100 W 110/220 V	350 W 110/220 V	350 W 110/220 V	Dual 400 W 110/220 V	Dual 750 W 110/220 V	Dual 750 W 110/220 V	Dual 750 W 110/220 V
Operating Temperature	10° C–35° C 50° F–95° F	10° C–35° C 50° F–95° F	10° C–35° C 50° F–95° F	10° C–35° C 50° F–95° F	10° C–35° C 50° F–95° F	10° C–35° C 50° F–95° F	10° C–35° C 50° F–95° F

- Notes:
- 1 All specification and performance results are based on the S series of appliances.
 - 2 Version 8 performance data represents the maximum capabilities of the systems as measured under optimal testing conditions. Deployment and policy considerations may impact performance results.
 - 3 Please contact your Forcepoint representative to determine proper sizing for your needs.
 - 4 Maximum of two network modules supported (of any type), maximum of one 10 Gb network module supported (with a maximum of four transceivers populated).

ABOUT FORCEPOINT

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