

NSS Labs 2016 Breach Detection System (BDS) Group Test Results

Nowhere to Hide – 100% Exploit and Evasion Detection Fortinet Security Fabric, NSS Recommended Breach Detection

Highlights:

- 3rd annual BDS Test, 3rd NSS Recommendation for Fortinet FortiSandbox
- FortiSandbox Appliance (with FortiClient), FortiSandbox Cloud (and FortiGate) Recommended
- 100% detection of exploits and evasions, 99%+ overall effectiveness
- Exceptional Time to Detection at an average of 4.1 minutes by FortiSandbox Cloud
- 10Gbps real-world throughput by FortiSandbox 3000D, 1 Gbps by FortiGate+ FortiSandbox Cloud
- Fortinet NGFW, DCIPS, WAF, and EPP, also NSS Recommended along with BDS

Importance

There is arguably no industry more full of hype than the security industry. The number of vendor claims can quickly overwhelm customers seeking to better protect their organizations. In the subcategory of network sandboxing, the 2015 Gartner Market Guide identified more than 20 vendors and clearly there are many more than those noted.

As a result, there is no substitute for testing critical security products within an organization’s production environment for an extended period of time. But expert independent testing has emerged as a critical shortlisting and decision-making tool for IT security teams. In this year’s NSS Labs BDS testing, products were tested over a month-long period and subjected to more than 600 attacks. FortiSandbox showcased its ability to detect nearly all of them.

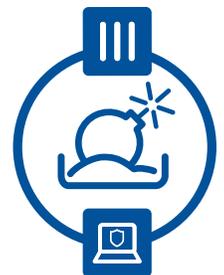
Exceptional Time to Detection

According to Verizon, 99% of malware is seen for 58 seconds or less, making time to detection and response critical. The FortiGate with FortiSandbox Cloud demonstrated exceptional time to detection (4.1 minutes).



Appliance or Cloud, Edge or Endpoint Integrated

Both the FortiSandbox appliance and cloud service successfully detected 99% or more of the attacks.



100% in Multiple Categories

both solutions were perfect in handling drive-by downloads, social exploits, and six classes of evasion including the use of SSL for evasion.

100%

Strong Enterprise Performance

The FortiSandbox appliance demonstrated 10 Gbps throughput for real-world protocol mix (enterprise perimeter) traffic, while the mid-range FortiGate 500D with FortiSandbox cloud showed 1Gbps throughput with full filtering.

10 Gbps

Breach Detection Systems Security Value Map

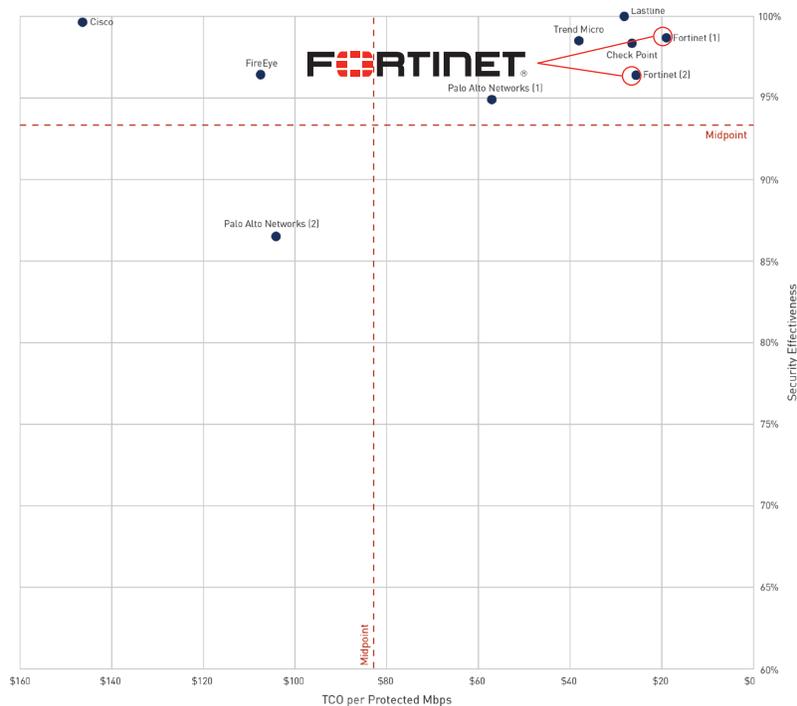


FIGURE 1 - NSS LABS' 2016 SECURITY VALUE MAP (SVM) FOR BREACH DETECTION SYSTEMS (BDS)

Fortinet Product Analysis Report Summary

PRODUCT					BREACH DETECTION RATE ¹	NSS-TESTED THROUGHPUT	3-YEAR TCO (LIST PRICE)	3-YEAR TCO (STREET PRICE)
Fortinet FortiGate 500D v5.4.1 with FortiSandbox Cloud Service					99.4%	1,000 Mbps	\$ 22,300	\$17,960
False Positives	Drive-by Exploits	Social Exploits	HTTP Malware	SMTP Malware	Offline Infections	Evasions	Stability & Reliability	
0.66%	100.0%	100.0%	99.6%	100.0%	76.9%	100.0%	PASS	

PRODUCT					BREACH DETECTION RATE ¹	NSS-TESTED THROUGHPUT	3-YEAR TCO (LIST PRICE)	3-YEAR TCO (STREET PRICE)
Fortinet FortiSandbox 3000D v2.1.3 with FortiClient v5.4.1.0640					99.0%	9,000 Mbps	\$ 274,968	\$220,093
False Positives	Drive-by Exploits	Social Exploits	HTTP Malware	SMTP Malware	Offline Infections	Evasions	Stability & Reliability	
2.63%	100.0%	100.0%	98.5%	99.1%	100%	100.0%	PASS	

Closing Remarks

Cybercriminals are evolving new attack strategies at an alarming rate and creating a situation in which the time from breach to full compromise occurs in minutes. This makes rapid detection and automated response a key component for defense. We're honored to receive NSS Labs Recommendations for Breach Detection, which reinforce the superior effectiveness of our sandbox solutions as well as the fastest time to detection when using our latest version of FortiSandbox. These new test results, combined with additional NSS Labs Recommended components across our Security Fabric, complete the critical steps of converting rapid detection into automatic mitigation to protect against the most advanced threats facing organizations today.

For More Information

[Fortinet Advanced Threat Protection Solution Page](#)

[Full NSS Labs Test Reports](#)



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