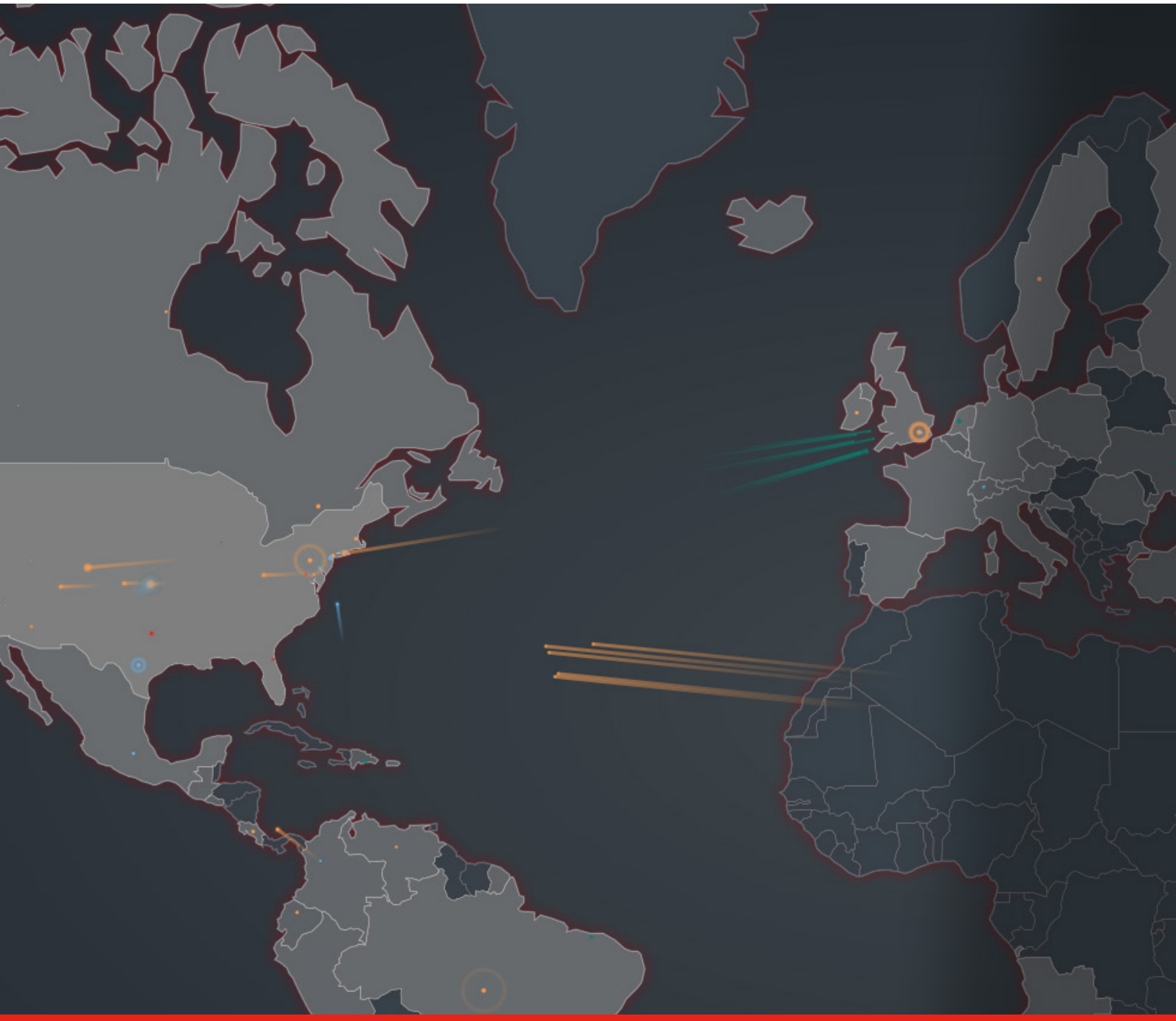
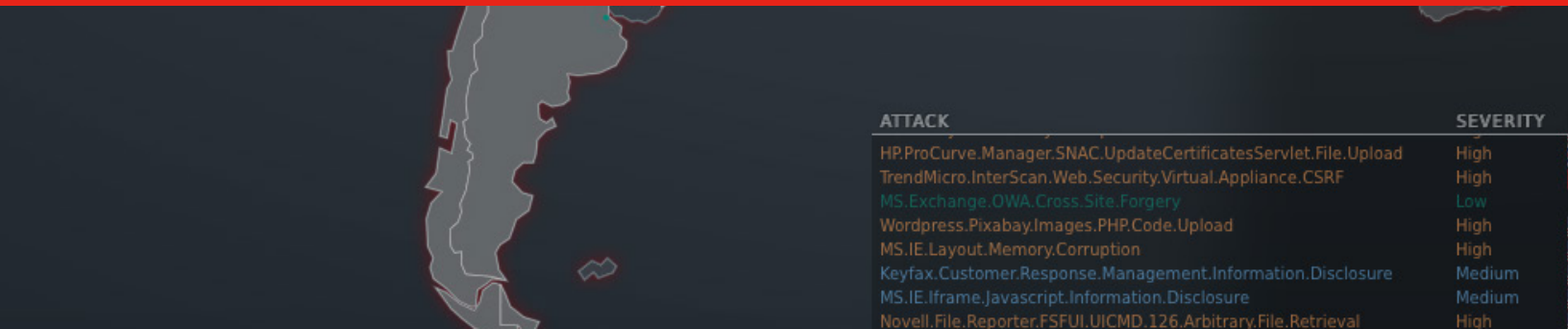
FORTINET



FortiGuard Security Services



FortiGuard Labs: Securing Your Organization

Extensive knowledge of the threat landscape combined with the ability to respond quickly at multiple levels is the foundation for providing effective security. Hundreds of researchers at FortiGuard Labs scour the cyber landscape every day to discover emerging threats and develop effective countermeasures to protect organizations around the world. They are the reason FortiGuard is credited with over 250 zero-day and vulnerability discoveries. The combination of in-house research, information from industry sources, and machine learning is why Fortinet security solutions score so high in real-world security effectiveness tests at NSS Labs, Virus Bulletin, AV Comparatives, and more.

Fortinet solutions, including the flagship FortiGate firewall platform, are powered by security services developed by FortiGuard Labs. More than 250,000 organizations around the world trust Fortinet with their security.

Per Minute

35,000	Threat events
21,000	Spam emails intercepted
470,000	Network intrusions resisted
95,000	Malware programs neutralized
160,000	Malicious websites blocked
32,000	Botnet C&C attempts thwarted
43M	Website categorization requests

Per Week

46M	New & updated spam rules
1,000	Intrusion prevention rules generated
1.8M	New & updated AV definitions
1.4M	New URL ratings
8,000	Hours of threat research globally

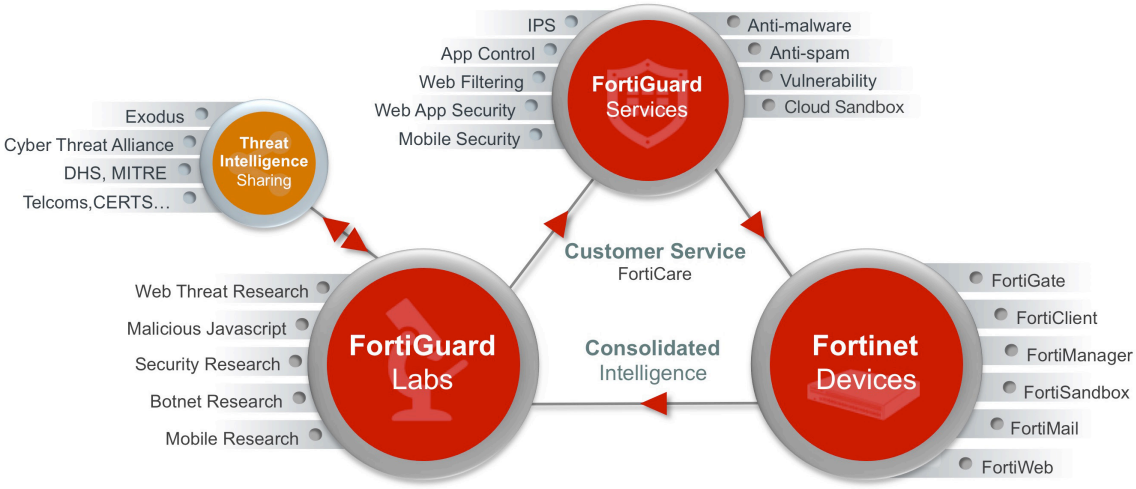
Total Database

190	Terabytes of threat samples
18,000	Intrusion prevention rules
5,800	Application control rules
250M	Rated websites in 78 categories
262	Zero-day threats discovered

Protecting hundreds of thousands of organizations all over the world requires an extensive threat protection infrastructure. Here's a snapshot of the activities performed by FortiGuard Labs in 2015 by the minute, by the week, and totals over time.

FortiGuard Ecosystem

The FortiGuard ecosystem encompasses threat intelligence research performed by the many FortiGuard researchers in cooperation with extended security industry and law enforcement organizations. This threat intelligence powers numerous security services delivered by the FortiGuard Distribution Network to Fortinet security solutions around the world.



The FortiGuard threat intelligence ecosystem connects threat intelligence research to security service development and service delivery to the Fortinet solution at the end customer location – keeping organizations protected from the latest threats.

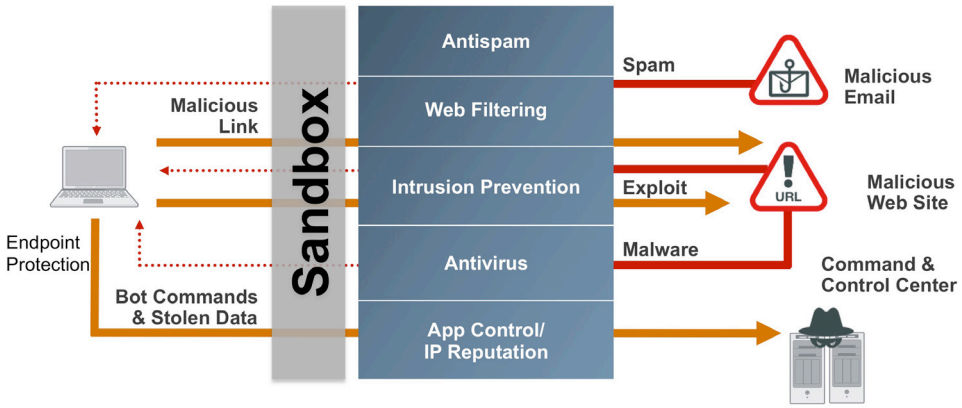
Breaking the Kill Chain of an Advanced Attack

There are multiple stages of activity involving entry, reconnaissance, and exfiltration that all must execute in order for a threat to result in a successful attack and data breach.

The initial attack most often comes in through email and that is where good antispam will stop most threats. However, through the use of social engineering, bots using legitimate IP addresses, and other techniques some email threats get through. A malicious email may have a malicious attachment or a link to a malicious website. Sandboxing offers a way to check attachments to see if they are malicious. Web filtering and IP reputation/antibotnet solutions may block a connection to a malicious website or command & control server to prevent the download of malware or the exfiltration of stolen data.

Drive-by downloads from malicious or hacked websites are also a major attack vector. Web filtering and IP reputation/ antibotnet technologies can block attempts to connect to these destinations. Malicious websites, scans, and bad actors will use exploits to target known vulnerabilities to crack open applications in order to damage systems, get malware into your environment, and to access data--intrusion prevention will block these types of threats.

If advanced malware gets into your environment strong antivirus and sandboxing will help detect, block, and mitigate it at the gateway or end point. And if a threat gets into an environment, good application controls can prevent malicious activity by blocking the application.



Break the kill chain of an advanced attack through a layered defense using multiple security technologies to give you multiple opportunities to stop an attack before it results in a data breach or destruction to your environment

FortiGuard Services

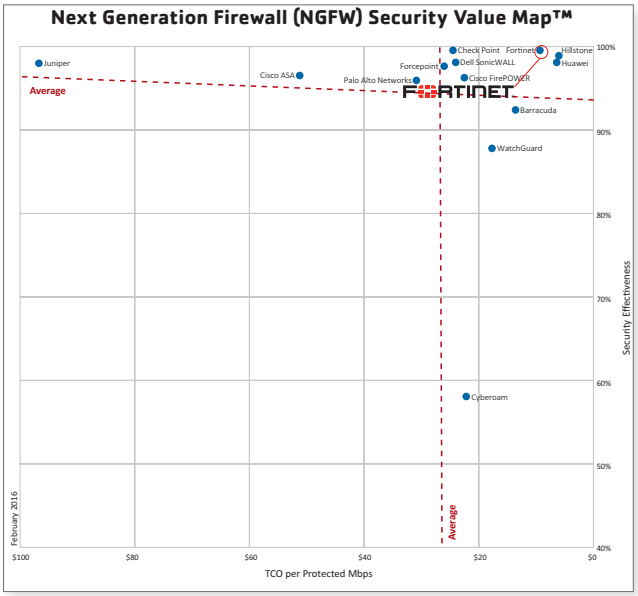
Fortinet Solutions

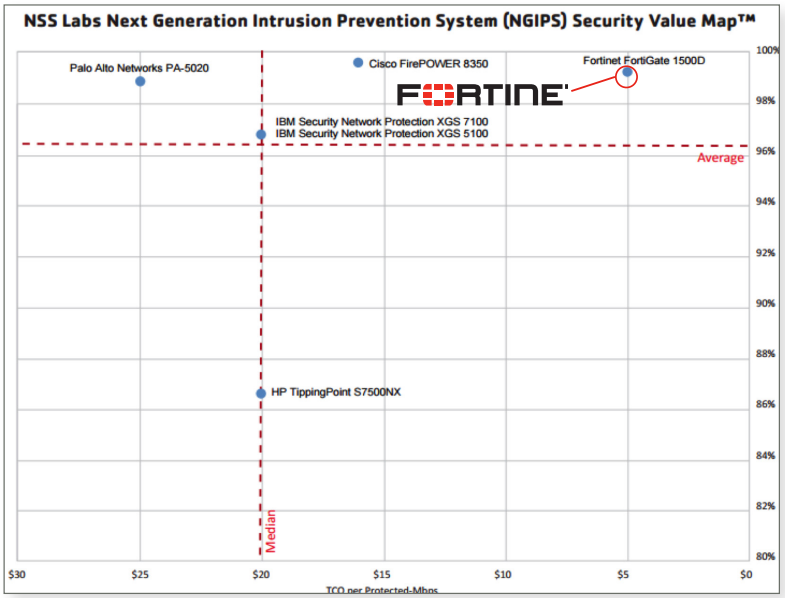
FortiGuard security services are available as subscriptions for use in the FortiGate next generation firewall and IPS platforms as well as with a number of other Fortinet products such as the FortiMail secure email gateway, FortiClient end-point protection, FortiSandbox, FortiCache, and FortiWeb.

	App Control	IPS	AV	IP Rep. / Anti-bot	Web Filtering	Anti-spam	Vuln. Scan	Mobile Security	WAF	DB Security
FortiGate	√	√	√	√	√	√		√		
FortiSandbox		√	√	√	√					
FortiClient*	√		√		√		√			
FortiCache			√		√					
FortiMail			√			√				
FortiWeb			√	√					√	
FortiADC D-Series				√					√	
FortiADC E-Series				√						
FortiDDoS				√						
FortiDB										√

Next Generation Application Control and IPS

Application control and intrusion prevention (IPS) are foundational security technologies in a next generation firewall like the FortiGate. Organizations around the world use the FortiGuard application control and IPS capabilities in the FortiGate platform to manage thousands of different applications and block network intrusions. Every minute of every day FortiGuard IPS blocks approximately 470,000 network intrusions.





NSS Labs tests a broad range of industry NGFW and NGIPS solutions for security effectiveness by testing intrusion prevention and application control. The FortiGate NGFW and NGIPS solutions are “Recommended” by NSS Labs for leading levels of security effectiveness and performance. FortiGate blocked 99.3% of exploits and passed all evasion and application control tests in 2016 NGFW tests by NSS Labs.

Fortinet is certified by ICSA Labs for Network firewall, Network IPS, antivirus, web application firewall, and advanced threat defense.

NSS Labs Cyber Advanced Warning System

You can see for yourself the superior security effectiveness of a FortiGate with application control and IPS in the ongoing, real-world NSS Labs Cyber Advanced Warning System (CAWS). Contact your Fortinet representative for more information on the NSS Labs CAWS program.

Web Filtering

Every minute of every day FortiGuard Labs processes approximately 43 million URL categorization requests and blocks 160,000 malicious websites. The Web Filtering service rates over 250 million websites and delivers nearly 1.5 million new URL ratings every week. FortiGuard classifies websites into six major categories for fast control and nearly 80 micro-categories for fine-tuned control.

Virus Bulletin tested numerous web filtering solutions and FortiGuard web filtering in the FortiGate was the only solution in the industry to be VBWeb Verified. FortiGate with FortiGuard web filtering blocked 97.7% of direct malware downloads and achieved an 83.5% total block rate.

Antivirus

Every minute of every day FortiGuard Labs neutralizes approximately 95,000 malware programs targeting traditional, mobile, and IoT platforms. Patented technologies such as the Fortinet Content Pattern Recognition Language (CPRL) enable FortiGuard antivirus to identify thousands of current and future malware variants with a single signature – optimizing both security effectiveness and performance.

Virus Bulletin tests numerous antivirus solutions for reactive and proactive protection and Fortinet consistently receives certification, consistently ranking high among solution results – in 2015 Fortinet was the 2nd most effective solution of all business-class AV vendors tested.

In 2015, AV Comparatives awarded its highest level award, the Advanced+ rating, to Fortinet for anti-phishing, file detection, and real-world protection.

FortiClient earned Recommended status in 2015, with antivirus as a key component for security effectiveness.

Fortinet is ICSA labs certified for antivirus.

Test Your Protection

Attackers often get past security measures by hiding malware deep within compressed files. Many network security solutions are regularly fooled by this technique because they can't analyze a file compressed with any format other than ZIP. Test your network antivirus solution to see if your security will catch malware hiding in a compressed file with Test Your Metal at metal.fortiguard.com.

Antispam

Every minute of every day FortiGuard Labs blocks approximately 21,000 spam emails and each week the Labs deliver approximately 46 million new and updated spam rules. Email is the #1 vector for the start of an advanced attack on an organization so highly effective antispam should be a key part of any security strategy. FortiGuard antispam detects spam with global spam filtering using sender IP reputation and spam signatures. It is available for FortiMail and FortiGate.

Virus Bulletin tests numerous antispam solutions for effectiveness and performance and Fortinet received its eighth consecutive VBSpam+ award in the 2016 VBSPAM Test with a final score of 99.97 with a 99.998% spam catch rate (the second highest catch rate in the industry).

Botnet IP & Domain Reputation

Every minute of every day FortiGuard Labs blocks approximately 32,000 botnet command & control communication attempts. A key part of the attack kill chain on an organization is when the threat communicates with a command & control server – either to download additional threats or to exfiltrate stolen data. IP and domain address reputation blocks this communication, neutralizing threats. IP reputation is a key part of an antiphishing solution.

AV Comparatives performs comparative antiphishing testing on a range of vendors. In 2015, Fortinet won the Advanced+ rating and was ranked the 2nd most effective antiphishing solution in the industry.

Web Application Security Service

The FortiWeb Security service provides fully automated updates to protect your sensitive data and content against the latest application-layer threats. FortiGuard Labs provides information on the latest advanced application vulnerabilities, bots, suspicious URL patterns, data-type patterns, and heuristic detection engines to enable FortiWeb Security-enabled appliances to prevent both new and evolving-application threats from gaining access to your web applications.

FortiWeb Security Service supports all FortiWeb and most FortiADC hardware and VM appliances to provide the latest protection from known application-based threats.

Fortinet is ICSA labs certified for web application firewall

Database Security Control

FortiGuard Database Security service offers centrally-managed, enterprise-scale database protection for Fortinet's FortiDB product line. Automated content updates provide the latest pre-configured policies that cover known exploits, configuration weaknesses, OS issues, operational risks, data access privileges, and industry/regulatory best practices. Streamlined management tools make it easy for administrators to verify databases conform to corporate standard configurations, implement tests for custom applications, and conduct extended penetration testing when required.

FortiGuard Database Security Control exclusively supports all FortiDB hardware and VM appliances to provide the latest in database security protection. Security Service supports all FortiWeb hardware and VM appliances to provide the latest protection from known application-based threats

Vulnerability Scan

The FortiGuard Vulnerability Scan service in the FortiClient solution helps organizations identify and manage software vulnerabilities on endpoint devices. It will identify the OS and applications and will identify known vulnerabilities in versions of software currently running on the endpoints in your organization. It will also provide timely remediation information to update systems identified as vulnerable.

FortiGuard researchers continually test commonly used software platforms for vulnerabilities and FortiGuard is one of the leading labs in the security industry to identify zero-day vulnerabilities (with over 250 unique zero-day discoveries since 2006).

Advanced Threat Protection (FortiSandbox Cloud)

Thousands of organizations around the world leverage FortiSandbox to identify advanced threats. FortiSandbox uses the full FortiGuard antivirus database, community reputation lookups, platform-independent code emulation and virtual sandboxing to identify zero-day threats and attacks using new evasion tactics. The FortiSandbox Cloud service leverages the FortiSandbox technology and is integrated with the FortiGate platform.

NSS Labs tests a broad range of industry Breach Detection Systems for security effectiveness. FortiSandbox is Recommended by NSS Labs for leading levels of security effectiveness and performance and in 2015 NSS Labs tests achieved a 97%+ breach detection rating.

Fortinet is ICSA labs certified for advanced threat defense.

FortiCare Service and Support

The FortiCare subscription delivers core data feeds to the FortiGate platform delivering FortiOS software updates, GeoIP intelligence, whitelists for security filters, and performance optimization. It also includes support from the FortiCare team to assist you with your FortiGate and FortiGuard solution.

FortiGate Solution Services

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with the FortiGuard Enterprise Bundle. This bundle contains the full set of FortiGuard security services plus FortiCare service and support offering the most flexibility and broadest range of protection all in one package.

FortiGuard Service Bundles for FortiGate	
Enterprise Bundle	Protection to address today's advanced threat landscape. It delivers all FortiGuard security services available for the FortiGate including: NGFW Application Control and IPS, Web Filtering, FortiSandbox Cloud, AntiVirus, Mobile Security, IP & Domain Reputation, AntiSpam, core FortiCare security services and a choice of 8x5 or 24x7 support.
UTM Bundle	Traditional UTM security services including NGFW Application Control and IPS, Web Filtering, AntiVirus, AntiSpam, and core FortiCare security services and a choice of 8x5 or 24x7 support.
NGFW (App Control & IPS)	Classic Next Generation Firewall security with Application Control and IPS.
FortiCare	Core security services, operating system updates and a choice of 8x5 or 24x7 support.
FortiGuard A La Carte Services for FortiGate	
AntiVirus	Protection to detect and block malware threats.
Web Filtering	Monitor, control or block access to risky or malicious web sites with extensive web filtering.
Cloud Sandbox	Detect advanced threats including zero-day attacks with Advanced Threat Protection sandbox in the cloud.
Mobile & IP/Domain Reputation Security	Protection to detect and block threats targeting mobile platforms and intelligence to block communications to known command & control servers.
AntiSpam	Antispam filter to reduce email attacks by blocking spam traffic at the perimeter.

Additional Service Packages

FortiGuard Labs delivers a number of security intelligence service packages associated with specific Fortinet solutions.

FortiSandbox	Intelligence from the IPS, AntiVirus, IP Reputation, Web Filtering, and FortiCare services.
FortiClient	Intelligence from the Application Control, AntiVirus, Web Filtering, Vulnerability Scan, and FortiCare services.
FortiCache	Intelligence from AntiVirus, Web Filtering, Content Analysis, and FortiCare services.
FortiMail	Intelligence from AntiVirus, AntiSpam, FortiSandbox Cloud, and FortiCare services.
FortiWeb	Intelligence from Web Application Security, AntiVirus, IP Reputation, Vulnerability Scan, and FortiCare services.
FortiADC	Intelligence from IP Reputation Web Application Security, and FortiCare services.
FortiDDoS	Intelligence from IP Reputation, and FortiCare services.
FortiDB	Intelligence from Database Security, and FortiCare services.

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