

Data Center Firewalls



FortiGate Next-Generation Firewalls (NGFWs) protect hybrid data centers with dynamic segmentation and coordinated, automated AI/ML-powered FortiGuard services to enable speed and manage all security risks. They offer the industry's fastest NGFW delivering up to 520 Gbps of threat protection with full visibility and ransomware protection. Powered by purpose-built security processing units, they consolidate tens of millions connections per second and up to 1.9 Tbps firewall performance. This service enables you to scale your business to meet escalating user demands.

CONSIDERATIONS FOR NEXT GEN DATA CENTER FW SELECTION

- Security Requirements
- Throughput
- Interface Connectivity
- Redundancy from Disaster Recovery
- Interconnect Features like IPsec VPN

Product Offerings

Product Offerings for FortiGate 1000 and 2000 Series.

APPLIANCES	1800F	2600F
DATA CENTER FIREWALL		
IPS Throughput	22 Gbps	31 Gbps
SSL Inspection Throughput	12 Gbps	20 Gbps
IPsec VPN Throughput	55 Gbps	55 Gbps
HARDWARE/CONNECTIVITY		
400G		
100G		✓
40G	✓	✓
25G	✓	✓
10G	✓	✓
Ultra Low Latency Port (ULL)		
With Storage	1801F	2601F
Variant Available	DC	DC
OTHER METRICS		
Firewall Throughput (1518 byte)	198 Gbps	198 Gbps
New Sessions/Second	750 000	1 M
Threat Protection Throughput	15 Gbps	25 Gbps
Virtual Domains (Default/Max)	10/250	10/500
OTHER LICENSES		
HyperScale	✓	✓
Carrier		

Product Offerings for FortiGate 3000 Series.

APPLIANCES	3000G	3500G	3800G
DATA CENTER FIREWALL			
IPS Throughput	90 Gbps	125 Gbps	250 Gbps
SSL Inspection Throughput	75 Gbps	112 Gbps	120 Gbps
IPsec VPN Throughput	105 Gbps	163 Gbps	210 Gbps
HARDWARE/CONNECTIVITY			
400G		✓	✓
100G	✓	✓	✓
40G	✓	✓	✓
25G	✓	✓	✓
10G	✓	✓	✓
Ultra Low Latency Port (ULL)			
With Storage	3001G	3501G	3801G
Variant Available	—	—	
OTHER METRICS			
Firewall Throughput (1518 byte)	397 Gbps	595 Gbps	795 Gbps
New Sessions/Second	1.1 Million	1.1 Million	1.1 Million
Threat Protection Throughput	80 Gbps	105 Gbps	200 Gbps
Virtual Domains (Default/Max)	10/500	10/500	10/500
OTHER LICENSES			
HyperScale	✓		✓
Carrier	✓	✓	✓



Product Offerings for FortiGate 4000 Series.

APPLIANCES	4200F	4400F	4800F
DATA CENTER FIREWALL			
IPS Throughput	52 Gbps	94 Gbps	87 Gbps
SSL Inspection Throughput	50 Gbps	86 Gbps	63 Gbps
IPsec VPN Throughput	210 Gbps	310 Gbps	800 Gbps
HARDWARE/CONNECTIVITY			
400G			✓
100G	✓	✓	✓
40G	✓	✓	✓
25G	✓	✓	✓
10G	✓	✓	✓
Ultra Low Latency Port (ULL)			
With Storage	4201F	4401F	4801F
Variant Available	DC	DC	—
OTHER METRICS			
Firewall Throughput (1518 byte)	800 Gbps	1.15 Tbps	3.1 Tbps
New Sessions/Second	1 M	1 M	915 000
Threat Protection Throughput	45 Gbps	75 Gbps	75 Gbps
Virtual Domains (Default/Max)	10/500	10/500	10/500
OTHER LICENSES			
HyperScale	✓	✓	✓
Carrier	✓	✓	✓

Product Offerings for FortiGate 7000 Series.

APPLIANCES	7081F	7121F
DATA CENTER FIREWALL		
IPS Throughput	405 Gbps	675 Gbps
SSL Inspection Throughput	324 Gbps	540 Gbps
IPsec VPN Throughput	378 Gbps	630 Gbps
HARDWARE/CONNECTIVITY		
400G	✓	✓
100G	✓	✓
40G	✓	✓
25G	✓	✓
10G	✓	✓
Ultra Low Latency Port (ULL)		
With Storage	7121F	7121F
Variant Available	DC	DC
OTHER METRICS		
Firewall Throughput (1518 byte)	1.89 Tbps	1.89 Tbps
New Sessions/Second	5.4 M	9 M
Threat Protection Throughput	312 Gbps	520 Gbps
Virtual Domains (Default/Max)	10/500	10/500
OTHER LICENSES		
HyperScale		
Carrier	✓	✓



Order Information

FORTIGATE	1800F	2600F
ADVANCED THREAT PROTECTION BUNDLE (HARDWARE AND SERVICE BUNDLE)		
Hardware	FG-1800F	FG-2600F
Services Bundle	FC-10-F18HF-928-02-DD	FC-10-F26HF-928-02-DD
UTP BUNDLE		
Hardware Bundle	FG-1800F-BDL-950-DD	FG-2600F-BDL-950-DD
Renewal	FC-10-F18HF-950-02-DD	FC-10-F26HF-950-02-DD
LICENSES		
HyperScale	LIC-FG18F-HYPSC	LIC-FG26F-HYPSC
Carrier		

FORTIGATE	3000G	3500G	3800G
ADVANCED THREAT PROTECTION BUNDLE (HARDWARE AND SERVICE BUNDLE)			
Hardware	FG-3000G	FG-3500G	FG-3800G
Services Bundle	FC-10-F3K0G-928-02-DD	FC-10-F3K5G-928-02-DD	FC-10-F3K8G-928-02-DD
UTP BUNDLE			
Hardware Bundle	FG-3000G-BDL-950-DD	FG-3500G-BDL-950-DD	FG-3800G-BDL-950-DD
Renewal	FC-10-F3K0G-950-02-DD	FC-10-F3K5G-950-02-DD	FC-10-F3K8G-950-02-DD
LICENSES			
HyperScale	LIC-FG30F-HYPSC		LIC-FG30F-HYPSC
Carrier	FCR-EUPG	FCR-EUPG	FCR-EUPG

FORTIGATE	4200F	4400F	4800F
ADVANCED THREAT PROTECTION BUNDLE (HARDWARE AND SERVICE BUNDLE)			
Hardware	FG-4200F	FG-4400F	FG-4800F
Services Bundle	FC-10-F42HF-928-02-DD	FC-10-F44HF-928-02-DD	FC-10-F48HF-928-02-DD
UTP BUNDLE			
Hardware Bundle	FG-4200F-BDL-950-DD	FG-4400F-BDL-950-DD	FG-4800F-BDL-950-DD
Renewal	FC-10-F42HF-950-02-DD	FC-10-F44HF-950-02-DD	FC-10-F48HF-950-02-DD
LICENSES			
HyperScale	LIC-FG42F-HYPSC	LIC-FG44F-HYPSC	LIC-FG48F-HYPSC
Carrier	FCR-EUPG	FCR-EUPG	FCR-EUPG

FORTIGATE	7081F	7121F
ADVANCED THREAT PROTECTION BUNDLE (HARDWARE AND SERVICE BUNDLE)		
Hardware	FG-7081F	FG-7121F
Services Bundle	FC-10-F78F1-928-02-DD	FC-10-F7CF1-928-02-DD
UTP BUNDLE		
Hardware Bundle	FG-7081F-BDL-950-DD	FG-7121F-BDL-950-DD
Renewal	FC-10-F78F1-950-02-DD	FC-10-F7CF1-950-02-DD
LICENSES		
HyperScale		
Carrier	FCR-EUPG	FCR-EUPG

High Availability

Each appliance needs its own license and FortiCare contract. This includes licensing for FortiCare Support, IPS, AntiVirus, Web Filtering, Mobile Malware, FortiClient, FortiCloud, and additional virtual domains (VDOMs).

All FortiGates in the cluster must have the same level of licensing.



Global Service Load Balancing

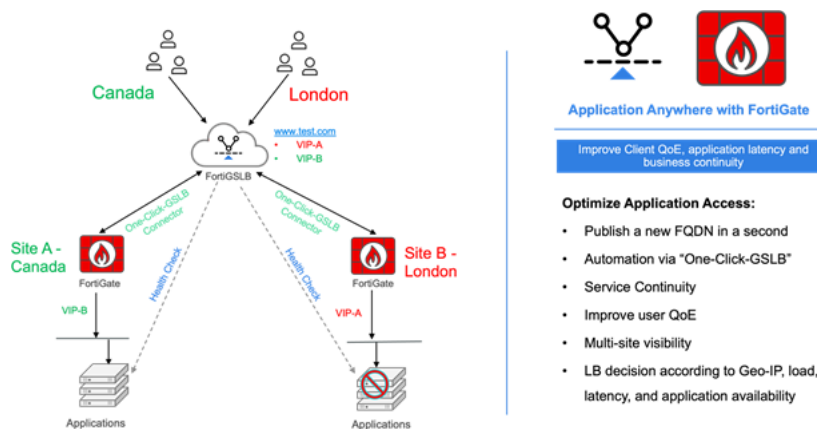
FortiAppSec Cloud - GSLB Service for ZTNA and VPN Load Balancing

Running globally distributed applications (whether from multiple DCs or moving to hybrid cloud solutions) comes with significant challenges when we ensure the availability of applications becomes more complex. Outages from network issues, cloud failures, or disasters can increase revenue risks and productivity losses from application outages.

FortiAppSec Cloud - GSLB Service is a DNS-based service that helps to ensure business continuity by keeping an application online and available when a local area experiences unexpected traffic spikes or network downtime—providing high availability, scalability, and optimal performance of applications and services across geographically dispersed data centers.

By enabling One-Click GSLB, FortiGate simplifies the configuration of Fully Qualified Domain Names (FQDNs) in sync with Virtual IP (VIP) or Zero Trust Network Access (ZTNA) server features. This method benefits FortiGate users who need to load-balance applications across multiple data centers based on availability or geographical factors.

Using Security Fabric Connector, you can deploy a multi-architecture solution in seconds with FortiGate “One-Click-GSLB.”



Order Information

FORTIAPPSEC CLOUD - GSLB SERVICE		SKU
DNS QUERY PER SECOND		100 QPS
DNS Subscription		FC1-10-UCAPF-330-02-DD
Advanced Health Check		10
Health Check Subscription		FC1-10-UCAPF-332-02-DD
PROFESSIONAL SERVICES		SKU
Per Day Charge for Remote Resource Service (SOW)		FP-10-00000-R08-00-00
Per Day Surcharge for Service Delivered After Hours/ Weekend in addition to the Daily Charge		FP-PS001-AH
Custom Travel and Expenses for On Site Professional Services		FP-MISC-TE
QuickStart Deployment Service*		FP-10-QSNGFW-DP3-00-00

* This service is available for FortiGate Models 1000 to 2600.

The QuickStart is a consulting service that provides assistance for the deployment of a pre-defined configuration into a customer's environment.

The service also includes knowledge transfer to help customers manage the new environment.

FortiAppSec Cloud - GSLB Professional Service

FortiAppSec Cloud - GSLB Service provides load balancing across multiple data centers and cloud applications based on GSLB Cloud policies, with site selection according to application/server availability (health checks) and client geolocation. GSLB supports stackable licenses.





Fortinet Training and Certification

FCP – FortiGate Administrator Training and Certification

Learn how to use the most common FortiGate features. In interactive labs, explore firewall policies, user authentication, high availability, SSL VPN, site-to-site IPsec VPN, Fortinet Security Fabric, and how to protect your network using security profiles, such as IPS, antivirus, web filtering, application control, and more. These administration fundamentals will provide a solid understanding of how to implement the most common FortiGate features.

Course Description

For prerequisites, agenda topics, and learning objectives, visit:

https://training.fortinet.com/local/staticpage/view.php?page=library_fortigate-administrator

Training Offering

For training SKUs, purchasing, and delivery options, visit:

https://training.fortinet.com/local/staticpage/view.php?page=purchasing_process



Frequently Asked Questions

What are typical licenses for customer deployments with Next Gen Datacenter with FortiGates?

Most customer use cases are covered comprehensively by Advanced Threat Protect bundle and the UTP bundle which provides extensive coverage for Device, Content, and Web based threats.

For more information, please visit: https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/FortiGuard_Security_Services.pdf.

How is “Threat Protection” measured and what does it include?

Threat Protection performance is measured with Firewall, IPS, Application Control, and Malware Protection, and logging enabled.

What does the “Unified Threat Protection” license include?

The Unified Threat Protection license includes: IPS, Advanced Malware Protection, Application Control, Botnet DB, Mobile Malware, Outbreak Prevention, Web and Video Filtering, Cloud sandbox, Secure DNS filtering, AntiSpam Service, and 24x7 support.

For more information, please visit: https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/FortiGuard_Security_Services.pdf.

Do I need a license for HA deployments?

All members of HA cluster need to have valid Support contracts and valid licenses for FortiGuard services. It is not sufficient to only have coverage for the Master unit.

Support Contract: All units need to have valid support contract in order to be able open a support ticket against a specific device.

FortiGuard Services: You must register and license all of the units in a cluster for all required FortiGuard services, both because all cluster units communicate with the FDN and because any cluster unit could potentially become the primary unit.

Where can I find out what transceivers are supported?

Each FortiGate datasheet has a list of transceivers supported by the model typically at the end of the datasheet under the Ordering information section.

How easily can I migrate from either a third party device to Fortinet or migrate from my old FortiGate to a newer FortiGate?

FortiConverter Service provides hassle-free migration to help organizations transition from a wide range of legacy firewalls to FortiGate Next-Generation Firewalls quickly and easily. This one-time service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.

FortiConverter service is also part of the Enterprise Bundle and can be also bought as an ala carte SKU. As an example when migrating to a new FortiGate-80F, FortiConverter Service can be added as an ala carte SKU which is like the below. The “189” highlighted in red in the middle denotes the ala carte FortiConverter service SKU.



What is the Hyperscale License and what does it do?

The FortiGate Hyperscale License allows customers to accelerate Carrier Grade NAT (CGNAT) features directly in Fortinet's latest SPU NP7. This license is primarily for service providers wanting to provide ultra high scale CGNAT service. For more information please refer to: <https://docs.fortinet.com/document/fortigate/7.0.6/hyperscale-firewall-guide/941439/whats-new>.

What is the FortiCarrier License and what does it do?

The FortiCarrier License allows customers to apply inspection and content checking to GPRS Tunneling Protocol (GTP) as it passes through carrier networks as well as Packet Forwarding Control Protocol (PFCP). The FortiCarrier License also allows the FortiGate to act as an SCTP firewall. For more information please refer to: <https://docs.fortinet.com/document/fortigate/7.2.0/fortios-carrier/899244/fortios-carrier>.

Do I need to install a GSLB license on FortiGate?

No additional license is required on the FortiGates. However, the GSLB license should be registered on the same account as the one with the FortiGates.

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