

FortiTester





Highlights

- Up-to-date cyber threat simulation based on real world insight
- Best price and performance traffic generation and security testing system
- Flexible operation modes from one standalone device up to 8 devices combined
- Hardware, virtual appliances, and public cloud
- Server-Class hardware and packet-processing enhancements
- Throughput Testing up to 80 Gbps/ 800 Gbps Bi-directional Throughput
- Easy and Simple Web UI

Performance Testing and Breach Attack Simulation

FortiTester is a network security testing tool designed to identify and evaluate network security devices and applications. It can simulate network traffic, including malicious traffic, and test how security devices perform in detecting and mitigating threats. FortiTester supports a wide range of traffic types, including SSL, DDoS, and custom traffic.

It is an easy-to-use tool that allows security teams to assess the effectiveness of their network security solutions before deploying them in production environments. With FortiTester, organizations can ensure that their security infrastructure is capable of defending against advanced threats and is optimized for maximum performance.

Available in

Features

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Appliance



Virtual



Hosted



Cloud

Performance Testing and Traffic Generation

HTTP, HTTPS, HTTP/2, UDP Throughput, RFC2544, SSLVPN for FortiGates, and IPSEC testing, Traffic enterprise mix generation, and Q-in-Q traffic generation.

Breach Attack Simulation

MITRE ATT&CK simulation testing, CVE-based IPS testing, Fuzzing testing, Web/IOT attacks, FortiGuard Malware strike pack (with 20+ Ransomware), DDoS traffic generation, and PCAP replay.

Comprehensive API

Automate testing and simulation with full system, test simulation, and reporting API.

Highlights

Traffic Generation and Performance Testing

- HTTP, HTTPS, and HTTP/2
- UDP (PPS/Payload)
- TCP (Throughput, TurboTCP, CPS)
- RFC 2544 / RFC 3511
- SSLVPN and IPSEC testing (CPS/RPS/CC/ Throughput)
- PCAP Replay, GTP Replay
- Q-in-Q Traffic Generation
- Scheduled Testing (hourly, daily, monthly)

Traffic Mix

• Enterprise Mix, IMix, Fortinet Enterprise, Enterprise Lite, Custom

Protocol Support

• TCP (CIFS, SMBv2, FIX, FTP, IMAP, LDAP, NFS, POP3, RDP, SMTP, SSH), UDP, DHCP, ICMP, RTSP/RTP, DNS (including DNS-AXFR)

Applications

 Amazon S3, AOL Chat, BitTorrent, DB2, Facebook, Gmail, GTalk, MSSQL, MySQL, NetFlix, Oracle TNS, PSQL, Twitter, WebEx, WhatsApp, Yahoo Mail, YouTube

Flexible Form Factor

- Powerful Appliances with 1G/10G/40G/100G
 Output
- Up to 80 Gbps (3000F) and 800 Gbps (4000F x8) Bi-Directional Traffic Simulation
- VM Form Factor supporting ESXi, KVM, OpenStack
- Public Cloud Support*: AWS, Azure, Alibaba, GCP, OCI, IBM Cloud
- Test Centre Mode up to eight devices in cluster (see model compatibility)

Breach Attack Simulation

- MITRE ATT&CK® Adversary Simulation
- Pre and Post Breach Simulation
- Comprehensive Reporting

Comprehensive Reporting

- PDF Exports
- API Retrieval of Cases Result and Reports

Security Testing

- DDoS testing (HTTP/UDP/TCP Session Flood)
- TCP / UDP / ICMP / IP Fuzzing Attack
- IPS Attacks (CVE-based and HTTP Evasion, SCADA/IOT attacks, Buffer Overflow, Code Injection, Path Traversal)
- Malware Strike Pack (Updated by FortiGuard daily with categories such as Ransomware and Trojan)
- Web Attacks (Cross Site scripting, SQL injection, Bad Robots, Privilege Escalation)
- Web Crawler (bulk URL replay)

Extensive API Support

- Case Management
- System Management
- Object Management
- User Management
- MITRE ATT&CK Management

Third Party Integration

- Administrator and RADIUS Support
- SYSLOG
- SNMP Traps and MIBs Support
- Certification Management
- FortiOS v7.0.1+ (Security Fabric Integration)
- FortiManager v6.4.6 and 7.0.1 (License activation and FortiGuard server updates)
- FortiSIEM v5.3.0 log integration

DEPLOYMENT

Standalone Mode

Test center works with the local traffic generator and receiver.



Test Centre Mode

Scale FortiTester performance by combining up to eight FortiTesters in a cluster.



Public Cloud Support

Scale FortiTester performance by combining up to eight FortiTesters in a cluster.



DEPLOYMENT

Intuitive GUI

FortiTester features a simple, easy to use, and intuitive graphic user interface.



Use Cases

Secure Infrastructure Validation

- Evaluate Advanced Threat Protection (ATP) Technology
- Validate Technology, People, and Process

Breach Attack Simulation

- MITRE ATT&CK® Simulation
- Pre/Post Breach Simulation

Vendor Bake-Off

- Datasheet Performance Evaluation
- Future Proofing

Public Cloud Testing

- AWS, Azure, GCP, OCI, IBM, Alibaba
- Architecture Validation
- Load Testing in Marketplaces

SPECIFICATIONS

	FORT	TESTER 100F	FORTITESTER 2000F		
Hardware Specifications					
Total Interfaces	2× 10 GE SFP+, 2x GE SFP, 2x GE RJ45, 1x Console GE RJ45, 1x Management GE RJ45, 2x USB 3.0		4× 10 GE SFP+ slots, 1x Management GE RJ45 port		
Storage	1 TB HDD		1 TB HD		
Form Factor		1U	2U		
SSL Acceleration Card		No	No		
Performance Examples and Application Support	Standalone Mode	Test Center Mode with 8 Devices	Standalone Mode	Test Center Mode with 8 Devices	
HTTP Throughput	10.0 Gbps	80.0 Gbps	20.0 Gbps	160.0 Gbps	
HTTP Connections Per Second	700 000	5 600 000	961 000	7 200 000	
HTTP Concurrent Connections	9 000 000	72 000 000	9 000 000	72 000 000	
SSL Throughput	9.9 Gbps	79.6 Gbps	15 Gbps	118.4 Gbps	
SSL Connections Per Second	2500	10 000	18 000	84 000	
SSL Concurrent Connections	80 000	640 000	80 000	640 000	
IPsec	Yes	Yes	Yes	Yes	
SSL-VPN	Yes	Yes	Yes	Yes	
Protocol TCP (CIFS, SMB, FIX, FTP, IMAP, LDAP, NFS, POP3, RDP, SMTP, SSH), UDP, DHCP, ICMP, RTSP/RTP	Yes	Yes	Yes	Yes	
RFC2544 and 3511	Yes	Yes	Yes	Yes	
IPS, Malware, MITRE ATT&CK, FUZZING, and DDOS	Yes	Yes	Yes	Yes	
Replay — PCAP, Traffic, Attack, GTP	Yes	Yes	Yes	Yes	
Traffic Mix (Enterprise / Lite / Fortinet Mix)	Yes	Yes	Yes	Yes	
Dimensions and Power					
Height x Width x Length (inches)	1.73 × 17.32 × 19.69		1.73 × 17.24 × 22.83		
Height x Width x Length (mm)	44 × 440 × 500		44 × 438 × 580		
Weight	15.9 lbs (7.2 kg)		16.31 lbs (7.4 kg)		
Power Required	100-240V AC, 50-60 Hz, 6A-3A		100–240VAC, 63-47 Hz, Redundant		
Power Consumption (Average / Maximum)	90W / 120W		216 W / 240 W		
Maximum Current	120V	/6A, 240V/3A	120V/5A, 240V/3A		
Heat Dissipation	477 BTU/h		819 BTU/h		
Redundant Power Supplies	No		Yes		
Environment					
Operating Temperature	32°F to 104°F (0°C to 40°C)		32°F to 104°F (0°C to 40°C)		
Storage Temperature	-4°F to 167°F (-20°C to 75°C)		-4°F to 158°F (-20°C to 70°C)		
Humidity	5% to 90% non-condensing		5% to 90% non-condensing		
Operating Altitude	Up to 7400 ft (2250 m)		<2000 m		
Compliance					
Regulatory Compliance	FCC, ICES, CE, RCM, VCCI, BSMI (Class A)		FCC Part 15 Class A, ICES, CE, RCM, VCCI		
Safety	U/cl	JL, CB, BSMI	UL/CUL, CB , BSMI		

FortiTester 2000F/2500E – Based on SSL/TLS cipher suite: AES256-GCM-SHA384 with 2K key size.

SPECIFICATIONS

	FORTITESTER 2500E		FORTITESTER 3000F		FORTITESTER 4000F		
Hardware Specifications							
Total Interfaces	4× 10 GE SFP+ slots, 1x Management GE RJ45 port		2 × 40GE QSFP (breakout to 4 × 10GE SFP+ supported), 1 x GE RJ45(mgmt)		2× 100 GE QSFP28, 1x GE RJ45 (breakout cable not supported)		
Storage	1 TB HD		2 TB		2 TB HDD		
orm Factor	1U		1U		10		
SL Acceleration Card	Yes		Yes		Yes		
Performance and Application Support	Standalone Mode	Test Center Mode with 8 Devices	Standalone Mode	Test Center Mode with 8 Devices	Standalone Mode	Test Center Mode with 8 Devices	
TTP Throughput	20.0 Gbps	160.0 Gbps	39.94 Gbps	316.00 Gbps	100 Gbps	800 Gbps	
TTP Connections Per econd	1 035 000	8 135 000	2 500 000	16 000 000	3 600 000	28 800 000	
TTP Concurrent connections	9 000 000	72 000 000	36 000 000	308 000 000	76 000 000	608 000 000	
SL Throughput	14.07 Gbps	109.92 Gbps	39.93 Gbps	316.00 Gbps	99 Gbps	792 Gbps	
SL Connections Per econd	16 900	128 400	60 000	360 000	80 000	640 000	
SL Concurrent onnections	80 000	640 000	320 000	2 560 000	640 000	5 120 000	
osec	Yes	Yes	Yes	Yes	Yes	Yes	
SL-VPN	Yes	Yes	Yes	Yes	Yes	Yes	
rotocol TCP (CIFS, 3MB, FIX, FTP, IMAP, DAP, NFS, POP3, RDP, 3MTP, SSH), UDP, 9HCP, ICMP, RTSP/RTP	Yes	Yes	Yes	Yes	Yes	Yes	
FC2544 and 3511	Yes	Yes	Yes	Yes	Yes	Yes	
PS, Malware, MITRE TT&CK, FUZZING, and DOS	Yes	Yes	Yes	Yes	Yes	Yes	
eplay — PCAP, Traffic, ttack, GTP	Yes	Yes	Yes	Yes	Yes	Yes	
raffic Mix Enterprise / ite / Fortinet Mix	Yes	Yes	Yes	Yes	Yes	Yes	
imensions and Power							
eight x Width x Length nches)	1.73 × 17.24 × 22.83		1.73 × 17.20 × 24		1.73 × 17.24 × 22.83		
leight x Width x Length mm)	44 × 43	44 × 438 × 580		44 × 437 × 610		44 × 438 × 580	
/eight	22.6 lbs	22.6 lbs (10.3 kg)		24.1 lbs (10.95 kg)		22.6 lbs (10.3 kg)	
ower Required	100-240V AC, 63-	47 Hz, Redundant	100-240V AC, 50-60 Hz, Redundant		100–240V AC, 63-47 Hz, Redundant		
ower Consumption Average / Maximum)	300 W /	300 W / 360 W			300 W	/ 360 W	
laximum Current	120V/5A,	240V/3A	100V/2.3A, 240V/0.94A		120V/5A, 240V/3A		
eat Dissipation	1160 BTU/h		767 BTU/h		1160 BTU/h		
edundant Power upplies	Dual Power Supplies		Dual Power Supplies		Dual Powe	er Supplies	
nvironment							
perating Temperature			32°F to 104°F	(0°C to 40°C)			
orage Temperature	-4°F to 158°F (-20°C to 70°C)						
umidity	5% to 95% non-condensing						
perating Altitude			Up to 7400 f	t. (2250 m)			
ompliance							
egulatory Compliance			FCC Part 15 Class A,	RCM, VCCI, CE, UL/c			
afety			CSA, C/US	S, CE, UL			

FortiTester 4000F - Based on SSL/TLS cipher suite: AES256-GCM-SHA384 with 2K key size. * FortiTester 4000F SSL performance uses 6 cores, 2 cores are used for system/management.

SPECIFICATIONS

	FORTITESTER VM02	FORTITESTER VM04	FORTITESTER VM08	FORTITESTER VM16	FORTITESTER VM32		
Virtual Machine							
Hypervisor Support	VMware ESX/ESXi, KVM, AWS, Azure, GCP, OCI, IBM, Alibaba						
vCPUs	2	4	8	16	32		
Memory	6 GB	10 GB	18 GB	34 GB	44 GB		
Storage			60 GB				
Network Interfaces	1 Management (E1000) + 4 Tester (PCI passthrough Intel(R) Ethernet Network Adapter x710						
HTTP Throughput (Gbps)	9.9	12.0	15.0	18.0	20.0		
HTTP Connections Per Second	383 000	677 000	1 280 000	1 660 000	2 170 000		
HTTP Concurrent Sessions	300 000	800 000	4 000 000	9 000 000	18 000 000		
SSL throughput (Gbps)	4.3	8.9	19.9	19.9	19.9		
SSL Connections Per Second	1300	2600	4800	7400	9700		
PSEC	yes	yes	yes	yes	yes		
SSLVPN	yes	yes	yes	yes	yes		
Protocol TCP (CIFS, SMB, FIX, FTP, IMAP, LDAP, NFS, POP3, RDP, SMTP, SSH), UDP, DHCP, CMP, RTSP/RTP	yes	yes	yes	yes	yes		
RFC2544 and 3511	yes	yes	yes	yes	yes		
PS, Malware, MITRE ATT&CK, FUZZING, and DDOS	yes	yes	yes	yes	yes		
Replay — PCAP, Traffic, Attack, GTP	yes	yes	yes	yes	yes		
Traffic Mix Enterprise / Lite / Fortinet Mix	no	Lite only	Lite/ Enterprise	Lite/ Enterprise/ Fortinet Emix	Lite/ Enterprise/ Fortine Emix		

FortiTester Test Center Mode Support

In order to run Test Center mode, FortiTester supports grouping similar members above in the same Test Center group.

MEMBERS
FTS-100F
FTS-2000D, FTS-2000F, FTS-2500E
FTS-3000F
FTS-4000F
FTS_VM_KVM
FTS_VM
FTS_VM_AWS
FTS_VM_AWS_BYOL
FTS_VM_AZURE_BYOL
FTS_VM_OCI_BYOL
FTS_VM_GCP_BYOL
FTS_VM_IBM_BYOL

Ordering Information

PRODUCT	SKU	DESCRIPTION
HARDWARE		
FortiTester 100F	FTS-100F	Network Performance and Security Testing System for Enterprises and Service Providers — 1x GE MGMT port, 2x GE RJ45 ports, 2x GE SFP ports, 2× 10GE SFP+ ports. 1TB HDD Storage.
	FTS-100F-BDL-293-DD	Hardware plus Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
FortiTester 2000F	FTS-2000F	Network performance and security testing system for enterprises and service providers — 1x GE RJ45 (mgmt), 4× 10GE SFP+, 2 TB HDD Storage, SSL card for acceleration.
	FTS-2000F-BDL-293-DD	Hardware plus Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with FortiCare Premium support.
FortiTester 2500E	FTS-2500E	Network Performance and Security Testing System for Enterprises and Service Providers — 1x GE RJ45, 4× 10 GE SFP+, 1 TB storage.
	FTS-2500E-BDL-293-DD	Hardware plus Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
FortiTester 3000F	FTS-3000F	Network performance and security testing system for enterprises and service providers — 1x GE RJ45 (mgmt), 2× 40GE QSFP (can split to 2× 10GE SFP+), 2 TB HDD Storage, equipped with SSL acceleration card.
	FTS-3000F-BDL-293-DD	Hardware plus Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with FortiCare Premium support.
FortiTester 4000F	FTS-4000F	Network Performance and Security Testing System for Enterprises and Service Providers — 1x GE RJ45, 2×100 GE QSFP28, 2 TB HDD storage.
	FTS-4000F-BDL-293-DD	Hardware plus Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
VM WARE		
FortiTester VM02	FTS-VM02	Network Performance and Security Testing System for Enterprises and Service Providers — Virtual appliance with 2x vCPU cores and 4 GB memory, supporting VMware/VMXNET3 and KVM/VIRTIO.
	FC-10-FTV02-294-02-DD	Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
FortiTester VM04	FTS-VM04	Network Performance and Security Testing System for Enterprises and Service Providers — Virtual appliance with 4x vCPU cores and 8 GB memory, supporting VMware/VMXNET3 and KVM/VIRTIO.
	FC-10-FTV04-294-02-DD	Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
FortiTester VM08	FTS-VM08	Network Performance and Security Testing System for Enterprises and Service Providers — Virtual appliance with 8x vCPU cores and 16 GB memory, supporting VMware/VMXNET3 and KVM/VIRTIO.
	FC-10-FTV08-294-02-DD	Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
FortiTester VM16	FTS-VM16	Network Performance and Security Testing System for Enterprises and Service Providers — Virtual appliance with 16x vCPU cores and 32 GB memory, supporting VMware/VMXNET3 and KVM/VIRTIO.
	FC-10-FTV16-294-02-DD	Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.
FortiTester VM32	FTS-VM32	Network Performance and Security Testing System for Enterprises and Service Providers — Virtual appliance with 32x vCPU cores and 64 GB memory, supporting VMware/VMXNET3 and KVM/VIRTIO.
	FC-10-FTV32-294-02-DD	Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection and MITRE ATT&CK signature updates), with 24×7 FortiCare support.

Ordering Information

PRODUCT	SKU	DESCRIPTION		
ACCESSORIES SUPPORT 100F/2000D/2000E/	2500E			
IGE SFP RJ45 Transceiver Module (except FTS-100F)	FN-TRAN-GC	1GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.		
GE SFP LX Transceiver Module	FN-TRAN-LX	1GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.		
GE SFP SX Transceiver Module	FN-TRAN-SX	1GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.		
0GE SFP+ Transceiver Module, Long Range	FN-TRAN-SFP+LR	10GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.		
0GE SFP+ Transceiver Module, Short Range	FN-TRAN-SFP+SR	10GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.		
0GE SFP+ Passive Direct Attach Cable	SP-CABLE-FS-SFP+1	10GE SFP+ Passive Direct Attach Cable, 1 m for Systems with SFP+ and SFP/SFP+ slots.		
0GE SFP+ Passive Direct Attach Cable	SP-CABLE-FS-SFP+3	10GE SFP+ Passive Direct Attach Cable, 3 m for Systems with SFP+ and SFP/SFP+ slots.		
0GE SFP+ Passive Direct Attach Cable	SP-CABLE-FS-SFP+5	10GE SFP+ Passive Direct Attach Cable, 5 m for Systems with SFP+ and SFP/SFP+ slots.		
0GE SFP+ Passive Direct Attach Cable	SP-CABLE-FS-SFP+7	10GE SFP+ Passive Direct Attach Cable, 7 m for Systems with SFP+ and SFP/SFP+ slots.		
0GE SFP+ Active Direct Attach Cable, 0m / 32.8 ft	SP-CABLE-ADASFP+	10GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots.		
CCESSORIES SUPPORT 3000F				
IOGE QSFP+ Transceiver Module, Short Range	FN-TRAN-QSFP+SR	40GE QSFP+ transceivers, short range for all systems with QSFP+ Slots.		
10GE QSFP+ Passive Direct Attach Cable	SP-CABLE-FS-QSFP+1	40GE QSFP+ Passive Direct Attach Cable, 1 m for Systems with QSFP+ slots.		
OGE QSFP+ Passive Direct Attach Cable	SP-CABLE-FS-QSFP+3	40GE QSFP+ Passive Direct Attach Cable, 3 m for Systems with QSFP+ slots.		
OGE QSFP+ Passive Direct Attach Cable	SP-CABLE-FS-QSFP+5	40GE QSFP+ Passive Direct Attach Cable, 5 m for Systems with QSFP+ slots.		
CCESSORIES SUPPORT 4000F				
00 GE QSFP28 Transceiver Module, ixtended Long Range	FN-TRAN-QSFP28-ER	100 GE QSFP28 transceivers, extended long range 20KM for all systems with QSFP28 Slots.		
00 GE QSFP28 Transceiver Module, ong Range	FN-TRAN-QSFP28-LR	100 GE QSFP28 transceivers, 4 channel parallel fiber, long range for all systems with QSFP28 Slots.		
ECURITY SERVICES				
ortiTester XXXX	FC-10-XXXX-293-02-DD	Enterprise bundle (IPS attack PCAPs update, malware strike pack, web protection, and MITRE ATT&CK signature updates), with 24×7 FortiCare support.		
	FC-10-XXXX-187-02-DD	FortiTester Premium Attack Signatures (FDS update of IPS attack PCAPs update, plus web protection signatures updates).		
	FC-10-XXXX-318-02-DD	FortiTester ATT&CK MITRE Attack Package (Windows/ Linux/ Mac attacks based on MITRE techniques).		
	FC-10-XXXX-261-02-DD	FortiTester Malware Strike Pack (FortiGuard auto update).		

SERVICES SKU / UPDATES ENTITLEMENT	ENTERPRISE BUNDLE	PREMIUM ATTACK SIGNATURES	MALWARE STRIKE PACK	MITRE ATT&CK
IPS	\odot	\bigcirc		
Web Attacks	\odot	\bigcirc		
IOT / SCADA Attacks	\bigcirc	\bigcirc		
Malware Strike Pack	\odot		\bigcirc	
MITRE ATT&CK	\odot			\odot

Fortinet Corporate Social Responsibility Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.



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