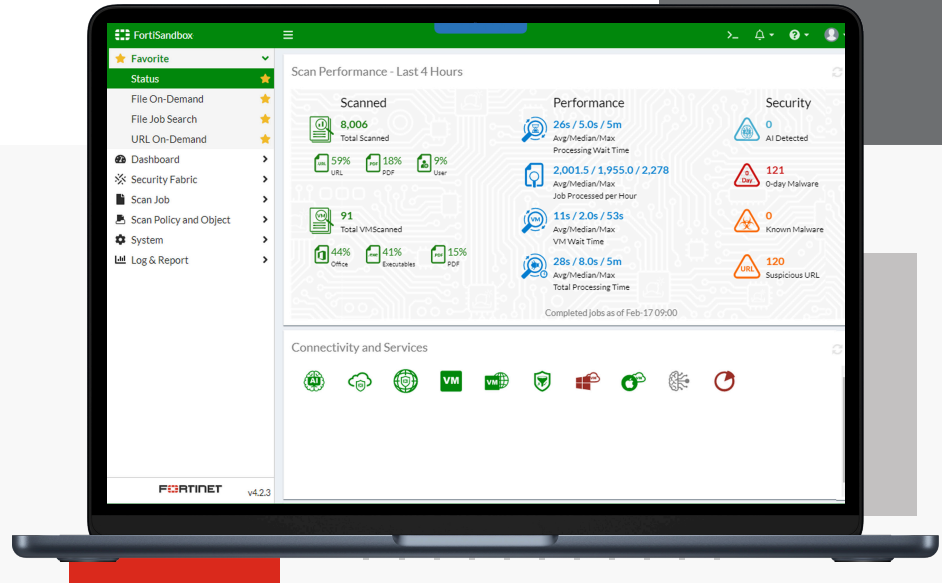


# FortiSandbox and FortiGuard Sandbox Services



## Highlights

### REAL-TIME VERDICTS

Prevent delays and unknown files from entering the network with real-time analysis and filtering

### INTEGRATION AT EVERY STAGE

Extend zero-day threat protection to NGFWs and other major areas of your infrastructure

### ACCELERATED THREAT INVESTIGATION

Speed investigation with built-in MITRE ATT&CK® matrix to identify a variety of malware

### REDUCE SECURITY OVERHEAD

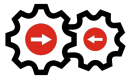
Block unknown files and experience fewer incidents and less investigation and mitigation time

## Third Generation Malware Sandbox

FortiSandbox is a high-performance security solution that utilizes machine learning technology to identify and isolate advanced threats in real-time. It inspects network traffic, files, and URLs for malicious activity, including zero-day threats, and uses sandboxing technology to analyze suspicious files in a secure virtual environment.

The solution supports multiple operating systems and file types, and provides reporting capabilities for quick threat identification and response. FortiSandbox is a flexible option suitable for organizations of any size and can be deployed on-premises, in the cloud, or as a hosted service, and integrates natively with the Security Fabric and other tools to evaluate suspicious content.

## Feature Benefits



### Integrated

FortiSandbox easily integrates with existing infrastructure to automate the submission of objects from existing security controls and share threat-intelligence in real time. This automation enables immediate threat response and reduces reliance on security resources.

---



### Inline

With FortiOS 7.2, we introduced the industry's first inline blocking where the FortiGate NGFW holds suspicious files while maintaining user experience. It does this action by leveraging an AI-powered malware analysis environment. Only files that have been analyzed and determined to be safe are let into the network.

---



### Anywhere

Ideal for IT and OT environments to protect networks, email, web applications, and endpoints from the campus to the public cloud, plus industrial control system (ICS) devices found in industrial facilities. This structure significantly reduces gaps in the attack surface.

---

## Feature Highlights

### AI-Powered Sandbox Malware Analysis, Automated, Inline Breach Protection

Complement your established defenses with a two-step AI-based sandboxing approach. Suspicious and at-risk files are subjected to the first stage of analysis that quickly identifies known and emerging malware through FortiSandbox's ML-powered static analysis. Second stage analysis is done in a contained environment to uncover the full attack lifecycle leveraging behavior based ML that is constantly learning new malware techniques and automatically adapting malware behavioral indicators. This approach makes the FortiSandbox dynamic analysis detection engine more efficient and effective against zero-day threats. Lastly, deep learning is applied to analyze the code base for anomalies.

Starting with FortiOS 7.2, FortiGate Next-Generation Firewalls can hold suspicious files, without noticeable business impact, by leveraging our AI-powered sandbox for malware analysis. Only files that have been analyzed and determined to be safe are let into the network. This feature is supported with the FortiGuard AI-based Inline Sandbox Service (IL SBX) and FortiSandbox offerings running version 4.2+.

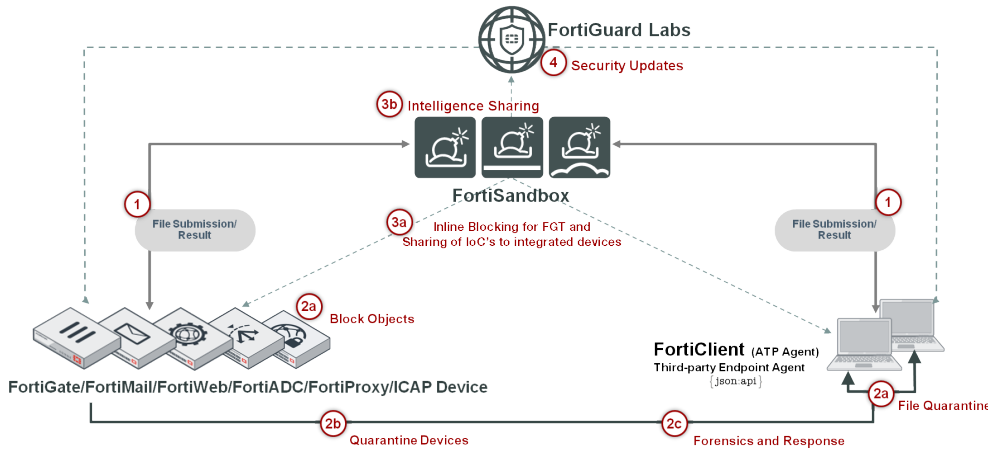
---

### Threat Mitigation

Our ability to uniquely integrate various products with FortiSandbox through the Security Fabric platform automates your breach protection strategy with an incredibly simple setup. Once malicious code is identified, FortiSandbox will return risk ratings and the local intelligence is shared in real time with Fortinet, Fabric-Ready Partners, and third-party security solutions to mitigate and immunize against new advanced threats. The local intelligence can optionally be shared with the Fortinet threat research team, FortiGuard Labs, to help protect organizations globally. Figure 1 steps through the flow on the automated mitigation process.



# Feature Highlights



### Query

- 1 File submission for analysis, results returned

### Mitigate

- 2a Block objects on the submission device or quarantine files on the endpoint
- 2b Quarantine endpoints
- 2c Further investigate and respond

### Update

- 3a Share IoCs to integrated devices
- 3b Optionally share analysis with FortiGuard
- 4 Improve protections for all customers/devices

Figure 1 - FortiSandbox Threat Mitigation Workflow

## MITRE ATT&CK-based Reporting and Investigative Tools

FortiSandbox provides a detailed analysis report that maps discovered malware techniques to MITRE ATT&CK framework with built-in powerful investigative tools that allows Security Operations (SecOps) team to download captured packets, original file, tracer log, malware screenshot, and is STIX 2.0 compliant IOCs that not only provides rich threat intelligence but actionable insight after files are examined (see Figure 2).

In addition, SecOps team can choose to record a video of the entire malware interaction or manually interact with the malware in a simulated environment.

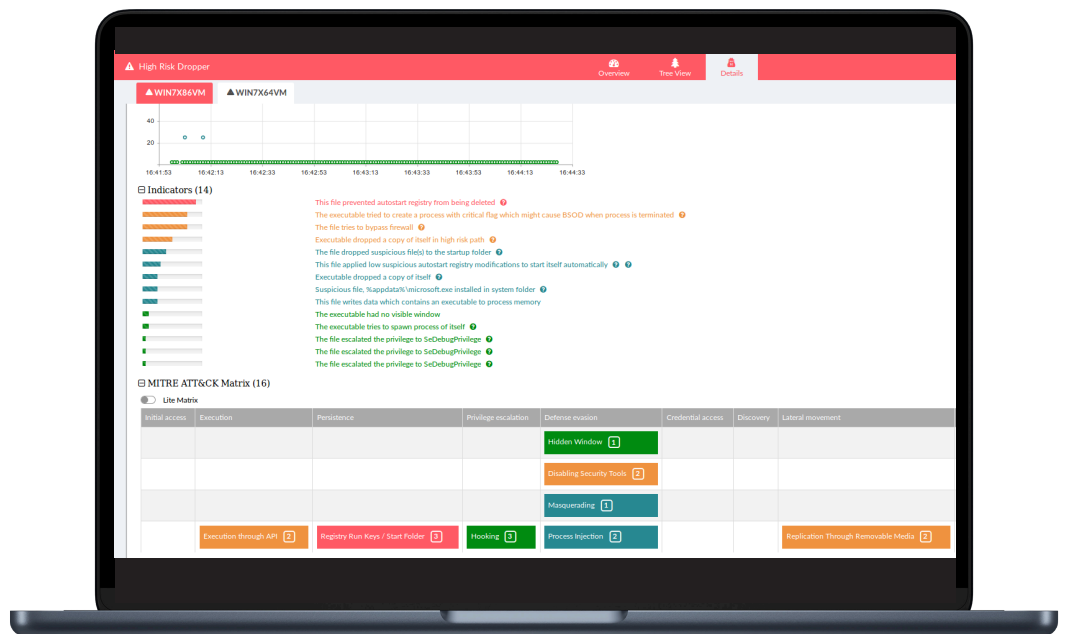


Figure 2 - MITRE ATT&CK Matrix with Built-in Tools



## Deployment Options

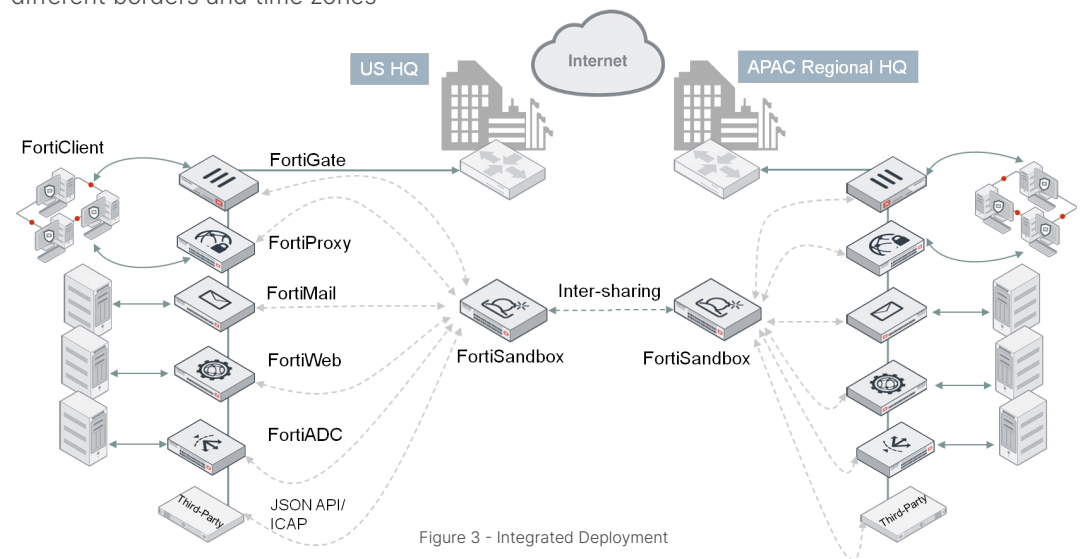
FortiSandbox supports inspection of many protocols in one unified solution, simplifying both network and security infrastructure and operations while reducing overall Total Cost of Ownership. Further, it integrates with Fortinet's Security Fabric, adding a layer of advanced threat protection to your existing security architecture.

FortiSandbox is the most flexible threat-analysis appliance available as it offers various deployment options for unique configurations and requirements. In addition, organizations can choose to combine these deployment options.

### Integrated

FortiSandbox natively integrates with FortiGate, FortiMail, FortiWeb, FortiADC, FortiProxy, FortiClient (ATP agent), Fabric-Ready Partner solutions, and via JSON API or ICAP with third-party security vendors to intercept and submit suspicious content to FortiSandbox. The integration will also provide timely remediation and reporting capabilities to those devices.

This integration extends to other FortiSandboxes to allow instantaneous sharing of real-time intelligence. This feature benefits large enterprises that deploy multiple FortiSandboxes in different geo-locations. This zero-touch automated model is ideal for holistic protection across different borders and time zones



### Standalone

This FortiSandbox deployment mode accepts inputs from spanned switch ports or network taps and emails via MTA or BCC mode. It may also include SecOps analyst on-demand file uploads or scanning of file repositories via CIFs, NFS, AWS S3, and Azure Blob through the GUI. It is the ideal option for enhancing an existing multi-vendor threat protection approach.

### Platform as a Service (PaaS)

Hosted FortiSandbox services offer the same Fortinet Security Fabric integration as FortiSandbox appliances. FortiSandbox (PaaS) can easily scale to facilitate current and future business needs without big upfront investments and with lower operational costs. Fortinet will maintain, update, and operate this service on your behalf.



## Features Summary

ADVANCED THREAT PROTECTION
Inline blocking with FortiOS 7.2 and up.
Inspection of new threats including ransomware and password-protected malware mitigation
ML-powered static code analysis identifying possible threats within non-running code
Intelligent adaptive scan profile that optimizes sandbox resources based on submissions
Virtual OS sandbox
<ul style="list-style-type: none"> <li>ML-powered behavioral analysis constantly learning new malware and ransomware techniques</li> <li>Concurrent instances</li> <li>OS type supported: Windows 10, Windows 8.1, Windows 7, macOS, Linux, Android, and ICS systems</li> <li>Customizable VMs with Windows and Linux OS and applications</li> <li>Anti-evasion detection. Sleep calls, process identification, registry queries, and more. Plus, simulates bare metal behavior for evasion techniques</li> <li>Callback detection. Malicious URL visit, botnet C&amp;C communication, and attacker traffic from activated malware</li> <li>Download captured packets, tracer logs, and screenshots</li> <li>Sandbox interactive mode</li> <li>Video-recording of malware interaction</li> </ul>
Heuristic/pattern/reputation-based analysis
Configurable internet browser on dynamic scan
Deep learning powered dynamic scan module (pexbox) for emulating Windows executable codes
VM scan ratio for efficient utilization of VMs
Rating Engine Plus that leverages FortiGuard's latest ML rating
Parallel scan to run multiple distinct VM types
File type support:
.7z, .ace, .apk, .app, .arj, .bat, .bz2, .cab, .cmd, .dll, .dmg, .doc, .docm, .docx, .dot, .dotm, .dotx, .eml, .elf, .exe, .gz, .htm, .html, .iqy, .iso, .jar, .js, .kgb, .lnk, .lzh, Mach-O, .msi, .pdf, .pot, .potm, .potx, .ppam, .pps, .ppsm, .ppsx, .ppt, .pptm, .pptx, .ps1, .rar, .rtf, .sldm, .sldx, .swf, .tar, .tgz, .upx, .rl, .vbs, WEblink, .wsf, .xlam, .xls, .xlsb, .xlsm, .xlsx, .xlt, .xltn, .xltx, .xz, .z, .zip
User-defined extensions
Protocols/applications supported
<ul style="list-style-type: none"> <li>Integrated mode with FortiGate. HTTP, SMTP, POP3, IMAP, MAPI, FTP, IM, and their equivalent SSL-encrypted versions</li> <li>Integrated mode with FortiMail. SMTP, POP3, IMAP</li> <li>Integrated mode with FortiClient EMS. HTTP, FTP, SMB</li> <li>Integrated mode with FortiWeb. HTTP</li> <li>Integrated mode with ICAP Client. HTTP</li> <li>Sniffer mode. HTTP, FTP, POP3, IMAP, SMTP, SMB</li> <li>MTA/BCC mode. SMTP</li> </ul>
OT services supported. TFTP, Modbus, S7comm, HTTP, SNMP, BACnet, IPMI
Isolate VM image traffic from system traffic
Network threat detection in sniffer mode. Identify botnet activities and network attacks, malicious URL visits
Manual or scheduled scan SMB/NFS, AWS S3, and Azure Blob storage shares and quarantine of suspicious files
Scan embedded URLs inside document files
Integrate with third-party Yara rules
Option to auto-submit suspicious files to cloud service for manual analysis and signature creation
Option to forward files to a network share for further third-party scanning
File checksum whitelist and blacklist options
URL submission for scan and query from emails and files

SYSTEM INTEGRATION
File submission input. FortiGate, FortiMail, FortiWeb, FortiADC, FortiProxy, and FortiClient (ATP agent)
File status feedback and report. FortiGate, FortiMail, FortiWeb, FortiADC, FortiProxy, and FortiClient (ATP agent)
Dynamic threat DB update. <ul style="list-style-type: none"> <li>FortiGate, FortiMail, FortiWeb, FortiADC, FortiProxy, and FortiClient (ATP agent)</li> <li>Periodically push dynamic DB to registered entities</li> <li>File checksum and malicious URL DB</li> </ul>
Update database proxy for FortiManager
Remote and secured logging. FortiAnalyzer, FortiSIEM, syslog server
JSON API to automate uploading samples and downloading actionable malware indicators to remediate
Certified third-party integration. Carbon Black, Ziften, SentinelOne
Sharing of IOCs between FortiSandboxes
NETWORKING / DEPLOYMENT
File input. File submission from integrated device(s). Sniffer mode, on-demand file upload
Supports sending TCP RST on sniffer mode deployment
Large file support (e.g., ISO images, network shared folders)
Multiple ICAP adapter profile for multi-tenancy support
Air-gapped networks support
High-availability clustering support
Port monitoring for fail-over in a cluster
Aggregate interface for increased bandwidth and redundancy
Static routing support
MONITORING AND REPORTING
Dashboard widgets for connectivity and services, license status, scan performance, system resources
Real-time monitoring widgets. Scanning result statistics, scanning activities (over time), top targeted hosts, top malware, top infectious URLs, top callback domains
Drilldown event viewer. Dynamic table with content of actions, malware name, rating, type, source, destination, detection time, and download path
Reports and logging. GUI, download PDF, and raw log file
Report generation. MITRE ATT&CK-based report on malware techniques such as file modification, process behaviors, registry behaviors, and network behaviors
Sample file, sandbox tracer logs, PCAP capture and indicators in STIX 2.0 format
Routine logs of system status and performance
Scan performance page for tracking historical usage
Generates periodic log of scan statistics
Generates periodic log of system resource usage
ADMINISTRATION
Supports GUI and CLI configurations
Multiple administrator account creation
Configuration file backup and restore
Notification emails when a malicious file is detected
Weekly reports to global email lists and FortiGate administrators
Centralized search page allowing administrators to build customized search conditions
Frequent signature auto-updates
Automatic check and download of new VM images
VM status monitoring
Radius authentication for administrators
Cluster management for administering HA clusters
Supports single-page upload of any licenses
Alert system for system health check
Supports FortiGuard as NTP server
Consolidated CLI for troubleshooting
Supports backup, restore, and revision of the configuration



## Specifications

FEATURE	CLOUD			ON PREMISE				
	FortiSandbox SaaS <sup>1</sup>	FortiSandbox PaaS	FortiSandbox Public Cloud	FSA-VM	FSA-500F	FSA-1000F/DC	FSA-2000E	FSA-3000F
Deployment	Fortinet-Hosted	Fortinet-Hosted	Azure, AWS, GCP, OCI	VM Appliance	Hardware Appliance	Hardware Appliance	Hardware Appliance	Hardware Appliance
<b>FortiGate Capabilities</b>								
Detection (Visibility and Log Enrichment)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Accelerated AI Pre-filterer	Yes <sup>1</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
Prevention (Inline Blocking)	Yes <sup>1</sup>	coming in Q2	Yes	Yes	Yes	Yes	Yes	Yes
<b>Security Services</b>								
Fortinet Security Fabric Integration	Centralized	Centralized	Centralized	Centralized	Centralized	Centralized	Centralized	Centralized
Fabric Partners		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adapters, API, Network Share, and Sniffer		Via API only	Yes	Yes	Yes	Yes	Yes	Yes
AI-based Static Behavior Analysis	Yes <sup>1</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Analysis Time	up to 60 minutes (1-3 minutes) <sup>1</sup>	1-3 minutes	1-3 minutes	1-3 minutes	1-3 minutes	1-3 minutes	1-3 minutes	1-3 minutes
Anti-evasion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
C & C Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AV, IPS, Web Filtering	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>System Performance</b>								
Effective Sandboxing Throughput <sup>3</sup> (Files/Hr)		20 – 4000	100 – 1000	100 – 1000	1000	1400	2400	6720
Static Analysis Throughput <sup>4</sup> (Files/Hr)					6000	10 000	16 000	75 000
Dynamic Analysis Throughput <sup>5</sup> (Files/Hr)					250	500	800	1600
FortiMail Throughput <sup>6</sup> (Emails/Hr)		200 – 40 000	1000 – 10 000	1000 – 10 000	10 000	14 000	24 000	67 200
Number of Users <sup>7</sup>		8 – 1600	40 – 400	40 – 400	400	560	960	2688
MTA Adapter Throughput (Emails/Hr)					5000	10 000	15 000	60 000
Sniffer Mode Throughput (Gbps)			1	1	0.5	1	4	9.6
<b>Sandboxing VMs</b>								
Default Local VMs			0	0	2	2	4	+8
Local or Custom VM Expansion Capacity			+8	8	+4	+12	+20	+64
Cloud VM Expansion Capacity		1 - 200	5 - 200	5 - 200	5 - 200	5 - 200	5 - 200	5 - 200
<b>Supported OS</b>								
Windows	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MacOS, Linux, Android		Yes <sup>8</sup>	Yes	Yes	Yes	Yes	Yes	Yes
Custom OS			Yes	Yes	Yes	Yes	Yes	Yes
OT Simulation					Yes	Yes	Yes	Yes

1. Supported on FortiGate as add-on AI-Based Inline Sandbox Prevention Service.

2. Integration support with FortiNDR's Artificial Neural Network capability for fast pre-filtering

3. Tested based on files with 80% documents and 20% executables. Includes both static and dynamic analysis with pre-filtering enabled; measured based on v4.2.2

4. Includes receiving, job handling, AV engine, Yara engine, Cloud Query; measured based on v4.2.2

5. Previously called "Sandboxing VM Throughput"; measured based on v4.2.2 with Pipeline mode enabled

6. Based on a ratio of one email with attachment to 10 emails

7. Based on a ratio of one user per 25 emails

8. Limited to static analysis only



## Specifications

FEATURE	CLOUD			ON PREMISE				
	FortiSandbox SaaS <sup>1</sup>	FortiSandbox PaaS	FortiSandbox Public Cloud	FSA-VM	FSA-500F	FSA-1000F/DC	FSA-2000E	FSA-3000F
<b>System Information</b>								
<b>Form</b>	Virtual Machine	Virtual Machine	Virtual Machine	Virtual Machine	1RU Appliance	1RU Appliance	2RU Appliance	2RU Appliance
<b>Network Interfaces</b>			4	4	4x GE RJ45 ports	4x GE RJ45 ports, 4x GE SFP slots	4x GE RJ45 ports, 2x 10 GE SFP+ slots	4x GE RJ45 ports, 2x 10 GE SFP+ slots
<b>1G RJ45</b>					Yes	Yes	Yes	Yes
<b>1G SFP</b>					No	Yes	Yes	Yes
<b>10G SFP+</b>					No	No	Yes	Yes
<b>Storage</b>		200 GB	200 GB (min)	200 GB (min)	1x 1 TB	2x 1 TB	2x 2 TB	4x 2 TB
<b>Hot Swappable</b>							Yes	Yes
<b>Trusted Platform Module (TPM)</b>					No	No	No	No
<b>Hypervisor Support<sup>1</sup></b>	No	No	Yes	Yes				
<b>Dimensions and Power</b>								
<b>Height x Width x Length (inches)</b>					1.73 x 17.24 x 12.63	1.73 x 17.24 x 22.83	3.46 x 17.24 x 20.87	3.5 x 17.2 x 23.7
<b>Height x Width x Length (mm)</b>					44 x 438 x 320	44 x 438 x 580	88 x 438 x 530	88 x 438 x 601
<b>Weight</b>					18.72 lbs (8.5 kg)	25 lbs (11.34 kg)	27 lbs (12.25 kg)	44 lbs (20 kg)
<b>Form Factor</b>					1 RU	1 RU	2 RU	2 RU
<b>Power Supplies</b>					1x PSU	1x PSU, Optional 2nd PSU for hot-swap	2x Redundant PSU (Hot Swappable)	2x Redundant PSU (Hot Swappable)
<b>Power Supply (AC/DC)</b>					100–240V AC 50/60 Hz	100–240V AC, 50/60 Hz / -48VDC	100–240V AC, 50/60 Hz	100–240V AC, 50/60 Hz
<b>Maximum Current (AC/DC)</b>					100V/8A, 240V/4A	100V/5A, 240V/3A / -48VDC/9A	100V/8A, 240V/4A	100V/10A, 240V/5A
<b>Power Consumption (Average/Maximum)</b>					30.1 / 76.3 W	66.93 / 116.58 W	164.7 / 175.9 W	392.8 / 462.1 W
<b>Heat Dissipation</b>					260.34 BTU/h	397.75 BTU/h	600.17 BTU/h	1610.81 BTU/h
<b>Forced Airflow</b>					Front to Back	Front to Back	Front to Back	Front to Back
<b>Environment</b>								
<b>Operating Temperature</b>					32°–104°F (0°–40°C)	32°–104°F (0°–40°C)	32°–104°F (0°–40°C)	32°–104°F (0°–40°C)
<b>Storage Temperature</b>					-4°–158°F (-20°–70°C)	-4°–158°F (-40°–70°C)	-4°–158°F (-20°–70°C)	-4°–158°F (-40°–70°C)
<b>Humidity</b>					5%–90% non-condensing	5%–90% non-condensing	5%–90% non-condensing	5%–90% (non-condensing)
<b>Compliance</b>								
<b>Certifications</b>					FCC Part 15 Class A, RCM, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST			
<b>Compute / DC Locations</b>								
<b>Hosted Regions</b>	USA, Germany, Japan, and Canada	USA, Germany, and Canada						
<b>Additional Services</b>								
<b>24 x 7 Support</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<sup>1</sup> Hypervisor support includes VMware ESXi, Linux KVM CentOS, Microsoft Hyper-V, Nutanix, AWS, Azure, GCP, and OCI

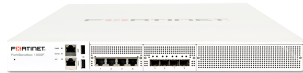


# Integration Matrix

Product	CLOUD				APPLIANCES
	SaaS	Inline Sandbox	FortiSandbox Cloud (PaaS)	Private/Public Cloud	*
FORTIGATE	FortiOS V6.2+	FortiOS V7.2.1+	FortiOS V6.4.2+, 6.2.5+		FortiOS V5.6+
FORTICLIENT	FortiClient for Windows OS V6.2+		FortiClient for Windows OS V6.4.4+, 7.0+		FortiClient for Windows OS V5.6+
FORTIMAIL	FortiMail OS V6.2+		FortiMail V6.4.3+		FortiMail OS V5.4+
FORTIWEB	FortiWeb OS V6.2+				FortiWeb OS V5.6+
FORTIADC					FortiADC OS V5.0+
FORTIPROXY					FortiProxy OS V1.2.3+



FortiSandbox 500F



FortiSandbox 1000F/-DC



FortiSandbox 2000E



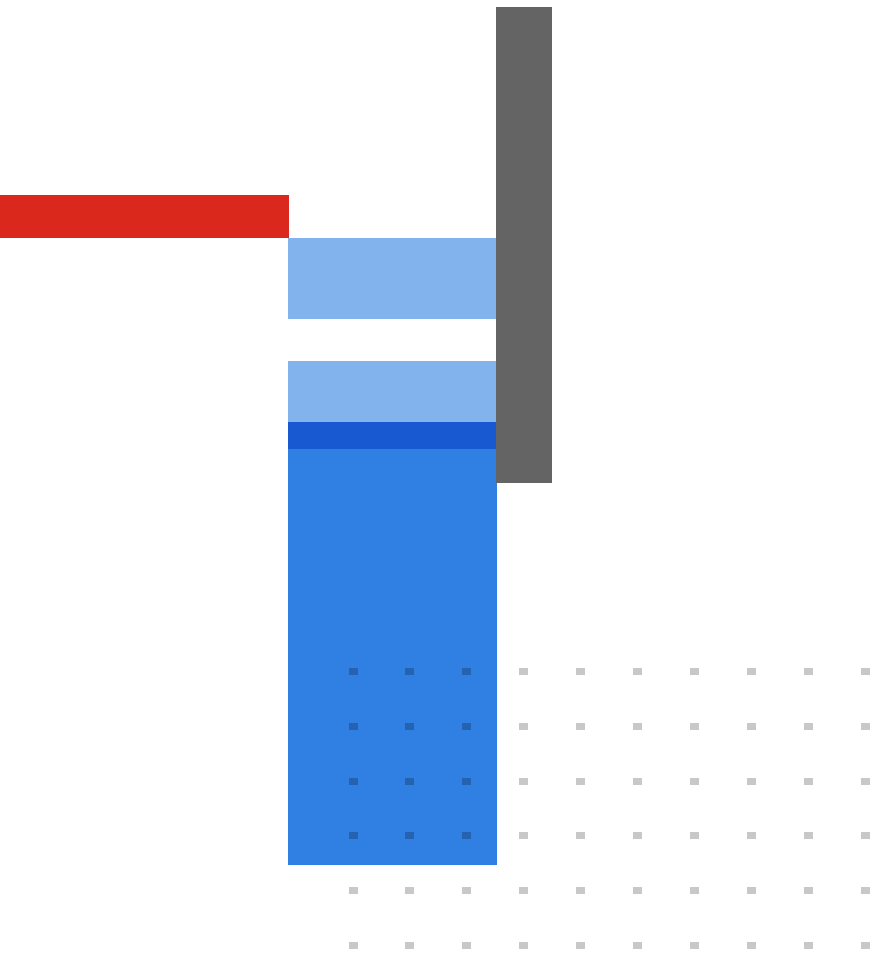
FortiSandbox 3000F



## Ordering Information

Product	SKU	Description
<b>FortiSandbox SaaS for FortiGate</b>		
Cloud Sandbox (FGT-200F)	FC-10-F200F-100-02-DD	Advanced Malware Protection (AMP) Bundle including Antivirus, Mobile Malware and FortiGate Cloud Sandbox Service.
Inline Sandbox (IL SBX) (FGT-200F)	FC-10-F200F-577-02-DD	FortiGuard AI-based Inline Sandbox Service. Requires AMP Bundle for the Antivirus engine.
<b>FortiSandbox SaaS for Security Fabric</b>		
Cloud Sandbox for FortiMail (FML-200F)	FC-10-FE2HF-123-02-DD	FortiMail Cloud Sandbox - Cloud Sandbox for FortiMail.
Cloud Sandbox for FortiWeb (FWB-100E)	FC-10-W01HE-123-02-DD	FortiWeb Cloud Sandbox - Cloud Sandbox for FortiWeb.
Cloud Sandbox for FortiProxy (FPX-400E)	FC1-10-XY400-514-02-DD	SWG Protection Bundle which includes Sandbox Cloud.
Cloud Sandbox for FortiADC (FAD-220F)	FC-10-AD2AF-123-02-DD	FortiADC Cloud Sandbox - Cloud Sandbox for FortiADC.
<b>FortiSandbox PaaS</b>		
FortiSandbox Cloud 1 VM	FC1-10-SACLP-433-01-DD	Cloud VM Service for FortiSandbox Cloud. Expands Cloud VM for Windows/macOS/Linux/Android by 1. Maximum of 200 VMs per FortiSandbox. Requires FortiCloud Premium SKU FC-15-CLDPS-219-02-DD.
FortiSandbox Cloud 5 VMs	FC2-10-SACLP-433-01-DD	Cloud VM Service for FortiSandbox Cloud. Expands Cloud VMs for Windows/MacOS/Linux/Android by 5. Maximum of 200 VMs per FortiSandbox. Requires FortiCloud Premium subscription SKU FC-15-CLDPS-219-02-DD.
FortiCloud Premium Account License	FC-15-CLDPS-219-02-DD	Access to advanced account and platform features. Per account license. See datasheet/online resources for included feature/license details.
<b>FortiSandbox Pub Cloud / FortiSandbox VM Appliance</b>		
FortiSandbox-VM	FSA-VM00	Sandboxing Virtual Appliance - No Windows/Office license included. For upgrades with local VMs up to 8, refer to FSA-VM-WIN10-1 or FSA-VM00-UPG-LIC-BYOL. For upgrade with Cloud VM up to 200, refer to FC-10-FSA01-195-02-DD. For Threat Intelligence subscription, refer to FC-10-FSV00-500-02-DD.
FortiSandbox Windows Cloud VM	FC-10-FSA01-195-02-DD	Expands FSA (Appliance/VM) Windows Cloud VM Clone capacity by 5. Supports Windows 10 with Office 2016. Maximum expansion limits to 200.
FortiSandbox MacOS Cloud VM	FC-10-FSA01-192-02-DD	Expands FSA (Appliance/VM) MacOS Cloud VM Clone capacity by 2. Supports MacOS X. Maximum expansion limits to 8.
<b>FortiSandbox Hardware Appliance</b>		
FortiSandbox 500F	FSA-500F	Sandboxing Appliance - 4 x GE RJ45, 1 Win10, 1 Win7, 1 Office16. Upgradable to max 6 VMs. For upgrades, refer to FSA-500F-UPG-WIN-LIC-4 or FSA-500F-UPG-LIC-BYOL. For Threat Intelligence subscription, refer to FC-10-FS5HF-499-02-DD.
FortiSandbox 1000F/-DC	FSA-1000F/FSA-1000F-DC	Sandboxing Appliance - 4 x GE RJ45, 4 x GE SFP slots, redundant PSU optional, 1 Win10, 1 Win7, 1 Office16. Upgradable to max 14 VMs. For upgrades, refer to FSA-1000F-UPG-WIN-LIC-6 or FSA-1000F-UPG-LIC-BYOL. For redundant PSU, refer to SP-FSA1000F-PS SKU. For Threat Intelligence subscription, refer to FC-10-FS1KF-499-02-DD.
FortiSandbox 2000E	FSA-2000E	Sandboxing Appliance - 4 x GE RJ45, 2 x 10GbE SFP+ Slots, redundant PSU, 1 Win10, 1 Win8, 2 Win7, 1 Office16. Upgradable to max 24 VMs. For upgrades, refer to FSA-2000E-UPG-WIN-LIC-10 or FSA-2000E-UPG-LIC-BYOL. For Threat Intelligence subscription, refer to FC-10-SA20K-499-02-DD.
FortiSandbox 3000F	FSA-3000F	Sandboxing Appliance - 4 x GE RJ45, 2 x 10GbE SFP+ Slots, redundant PSU, 6 Win10, 2 Win7, 1 Office19. Upgradable to max 72 VMs. For upgrades, refer to FSA-3000F-UPG-LIC-32 or FSA-3000F-UPG-LIC-BYOL. For Threat Intelligence subscription, refer to FC-10-SA3KF-499-02-DD.
<b>Optional Accessories</b>		
1 GE SFP SX Transceiver Module	FR-TRAN-SX	1 GE SFP transceiver module, short range. Compatible to FSA-1000F and FSA-2000E.
1 GE SFP LX Transceiver Module	FR-TRAN-LX	1 GE SFP transceiver module, long range. Compatible to FSA-1000F and FSA-2000E.
10 GE SFP+ SR Transceiver Module	FG-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range. Compatible to FSA-2000E and FSA-3000F.
10 GE SFP+ LR Transceiver Module	FG-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range. Compatible to FSA-2000E and FSA-3000F.
FSA-1000F AC Power Supply	SP-FSA1000F-PS	AC power supply for FSA-1000F, FDC-1000F, and FIS-1000F modules only.
FSA-1000F DC Power Supply	SP-FSA1000F-DC-PS	DC power supply for FSA-1000F-DC module only.
FSA-3000F AC Power Supply	SP-FSA3000F-PS	AC power supply for FSA-3000F and FAC-3000F modules only.





**FORTINET**

[www.fortinet.com](http://www.fortinet.com)

Copyright © 2023 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.

April 17, 2023

FSA-DAT-R49-20230417