

FortiAnalyzer Big Data

4500G Series





Highlights

Big Data Analytics Scalable Performance Built-in High Availability

High performance big data network analytics

FortiAnalyzer Big Data delivers high-performance big data network analytics for large and complex networks. It is designed for large-scale data center and high-bandwidth deployments, offering the most advanced cyber threat protection by employing hyperscale data ingestion and accelerated parallel data processing. Together with its new distributed software and hardware architecture and Fortinet's high performance next generation firewalls, this powerful 4RU chassis offers blazing fast performance, enterprisegrade data resiliency, built-in horizontal scalability, and consolidated appliance management.



Available in

:==

Appliance



Virtual

Features

High Performance

- Totally redesigned and optimized architecture, employing the newest Big Data Kafka/ Hadoop/ Spark technologies
- Massive Parallel event streaming and data processing for high-speed ingestion, data storage, and search capabilities
- The highest performing FortiAnalyzer appliance: 300 000 logs/sec out-of-box, horizontally scalable to petabytes of storage

Unified Appliance Management

- Enterprise-grade Big Data Appliance with consolidated hardware and software monitoring through the Cluster Manager
- Simple installation, updating, expansion, and data management
- Built-in automation and customizable job templates

Reliable and Scalable Deployment

- Built-in enterprise high availability and data resiliency based on a newly optimized software and hardware architecture
- Designed for rapid scalability with multiple Big Data appliances using high speed 40 Gb/s built-in switch modules
- Specifically designed to accelerate the visibility and expansion of the Fortinet Security Fabric

Big Data Security Analytics

- Monitor and analyze your entire network from end-to-end at an accelerated rate, maximizing the visibility of your entire attack surface, network traffic, applications, users, and end-point hosts
- Interactive dashboards and informative reports using real-time tracking of key security metrics, link health status, and application steering performance
- Ready to use and customizable report templates for compliance, security posture assessments, and system performance checks
- Use log analytics to query IPFIX log messages collected, when Ingestion is configured in Flow mode

Rapid Incident Detection and Response

- Intuitive event and incident workflow for SOC teams to focus on critical alerts
- The built-in correlation engine automates and groups alerts to remove false positives
- Out-of-box connectors and extensive APIs for security teams to automate repetitive tasks

Highlights

FortiAnalyzer Big Data supports all of the features and technologies of FortiAnalyzer family. FortiAnalyzer Big Data also provides additional scalability and high-speed performance using new massive parallel data processing and Columnar Data Store processes. After the data ingest, the FortiAnalyzer Big Data provides an easy to use front-end UI that interacts with the distributed big data SQL engine to search, query, and aggregate the data.

SERVICE CATEGORY	ACTIVITY	FORTIANALYZER APPLIANCES	FORTIANALYZER BIG DATA 4500G
Security Analytics	Log View	\odot	\odot
	Interactive FortiView Dashboards	\odot	\odot
	Fabric View - Assets and Identity	\odot	\bigcirc
	Out-of-Box Report Templates	\bigcirc	\bigcirc
	Global Search across all Big Data clusters	_	\bigcirc
	IPFIX Support	_	\bigcirc
Incident Response	Indicators of Compromise Service	\bigcirc	\bigcirc
	Event Correlation and Alerting	\bigcirc	\bigcirc
	Incident Escalation Workflow and Management	\bigcirc	\bigcirc
Automation and Integration	Security Fabric Connectors	\bigcirc	\bigcirc
	Security Fabric Integration	\bigcirc	\bigcirc
	REST API	\bigcirc	\bigcirc
Multi-Tenancy and RBAC	ADOM	\odot	\bigcirc
	Role-Based Access Control	\bigcirc	\bigcirc
Performance and Scalability	Deployment	Small, Medium Enterprise	Large Enterprise and Service Providers
	High Availability and Redundancy	Yes, requires a second unit	Yes, built-in HA and redundancy
	Sustained Rate	Up to 100 000 logs/sec	Start at 300 000 logs/sec
	Horizontal Scalability	_	\bigcirc
	Big Data Analytics Engine	_	\bigcirc
	Massive Parallel Data Processing	_	\bigcirc
	Distributed Architecture	_	\bigcirc
	Columnar Data Store	_	\bigcirc
Appliance Management	Chassis	_	\bigcirc
	Cluster Manager	_	\bigcirc

To download the FortiAnalyzer Datasheet, please visit - https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/fortianalyzer.pdf

FortiAnalyzer Big Data Virtual Machines

Fortinet offers FortiAnalyzer Big Data in a stackable Virtual license model, with services available for 24×7 FortiCare support and subscription licenses for the FortiGuard Indicator of Compromise (IOC), and FortiGuard Outbreak Detection Service, FortiGuard Attack Surface Service, Security Automation Service, and OT Service.

This software-based version of the FortiAnalyzer Big Data hardware appliance is designed to run on many virtualization platforms, which allows you to expand your virtual solution as your environment grows.

Specifications

FORTIANALYZER BIG DATA VIRTUAL APPLIANCES	FAZ-BD-VM	
Capacity		
	015 70	
Storage Capacity	215 TB	
Log Ingestion Rate (logs/sec)	150 000 (up to 2 million logs/sec)	
Devices/VDOMs Maximum	10 000+	
Chassis Management	\bigcirc	
Virtual Machine		
FortiGuard Indicator of Compromise (IOC)	\bigcirc	
FortiGuard Security Automation Service	\bigcirc	
FortiGuard Outbreak Alert Service	\bigcirc	
OT Service	\bigcirc	
Attack Surface Service	\bigcirc	
Virtual Machine		

Virtual Machine Hypervisor Support

Up-to-date hypervisor support information can be found in the release notes for each FortiAnalyzer Big Data version. Visit <u>https://docs.fortinet.com/product/fortianalyzer-bigdata/</u> and find the Release Information at the bottom section. Go to "Product Integration and Support" \rightarrow "FortiAnalyzer BigData [version] support" \rightarrow "Virtualization"

FORTIANALYZER BIG DATA APPLIANCES	FAZ-BD-4500G
Capacity and Performance	
GB/Day of Logs (raw logs)	20 TB
Log Ingestion Rate (logs/sec)	300 000
Devices/VDOMs (Maximum)	10 000+
Max Number of Days Analytics*	30
Options Supported	
FortiGuard Indicator of Compromise (IOC)	\bigcirc
FortiGuard Security Automation Service	\odot
FortiGuard Outbreak Alert Service	\bigcirc
FortiGuard OT Service	\odot
FortiGuard Attack Surface Service	\odot
Hardware Specifications	
Form Factor	4 RU
Total Interfaces	6× 100GbE QSFP28 or 6× 40GbE QSFP+
Storage Capacity	Blade#1 to Blade#14: 14 × 2 × 2.5" 7.68TB SSD = 215TB
Usable Storage	~7.68TB on Blade#1 in RAID1; 200TB total on Blade#2 to Blade#14
Removable Hard Drives	28 (Max) SSD, each blade 2 × 2.5" Storage Device
Redundant Hot Swap Power Supplies**	\odot
Dimensions	
Height x Width x Length (inches)	7 × 17.6 × 32
Height x Width x Length (cm)	17.8 × 44.7 × 81.3
Weight	240 lbs (108.96 kg)
Environment	
AC Power Supply**	200-240 VAC, 50-60 Hz
Power Consumption (Average / Maximum)	7000 W / 9100 W
Heat Dissipation	31050.48 (BTU/h)
Max Current	200-240 V / 10-9.8A
Operating Temperature	10°C ~ 35°C (50°F ~ 95°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	8% to 90% (non-condensing)
Compliance	
Safety Certifications	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB

* The max number of days if receiving logs continuously at the sustained log ingestion rate. This number can increase if the average log rate is lower.

** All four power supplies must be installed and plugged into a reliable power source when the device is turned on / powered up. The max power consumption of each PSU supports 2200 W.

Data Sheet

Ordering Information

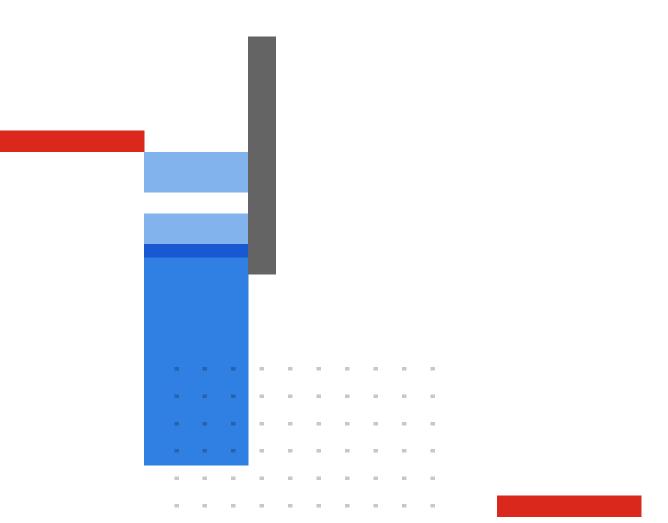
Product	SKU	Description
FortiAnalyzer-BigData-4500G	FAZ-BD-4500G	FortiAnalyzer high-performance chassis for big data analytics with 14 blade servers, 12× 100G/40G QSFP28 Ethernet Ports, 300,000 logs/sec ingestion rate, and 215TB SSD storage in a single system. Horizontally scalable up to petabytes of storage.
Hardware Bundle	FAZ-BD-4500G-BDL-466-DD	Hardware plus 24×7 FortiCare and FortiAnalyzer Enterprise Protection.
Enterprise Protection Bundle	FC-10-FB45G-466-02-DD	FortiCare Premium plus Indicators of Compromise Service, Security Automation Service, and FortiGuard Outbreak Service.
Security Automation Service	FC-10-FB45G-335-02-DD	FortiAnalyzer Security Automation Service including premium reports, event handlers, SIEM correlation rules for advanced threat detection and SOAR playbooks.
IOC and Outbreak Service Bundle	FC-10-FB45G-661-02-DD	FortiGuard IOC and Outbreak Detection Service.
OT Service	FC-10-FB45G-159-02-DD	OT Security Service including advanced OT analytics, risk and compliance reports, event handlers, and use- case correlation rules.
Attack Surface Service	FC-10-FB45G-175-02-DD	FortiAnalyzer Attack Surface Security Rating and Compliance.
24×7 FortiCare Contract	FC-10-FB45G-175-02-DD	FortiCare Premium Support.
FortiAnalyzer-BigData-VM	FAZ-BD-VM	FortiAnalyzer-BD virtual appliance with 150 000 logs/sec ingestion rate and 200TB storage capacity to start. Support add-on to scale up performance and storage.
FortiAnalyzer-BigData-VM Add-On *	FAZ-BD-VM-UG	FortiAnalyzer-BD virtual appliance ADD-ON to add additional capacity with 50 000 logs/sec ingestion rate and 50TB storage. Multiple ADD-ONs can be stacked together to scale up the ingestion rate and storage.
Enterprise Protection Bundle VM	FC-10-ZBDVM-575-02-DD	Enterprise Protection (24×7 FortiCare plus Indicators of Compromise Service, Security Automation Service, and FortiGuard Outbreak Detection service.
Security Automation Service VM	FC-10-ZBDVM-335-02-DD	FortiAnalyzer Security Automation Service including premium reports, event handlers, SIEM correlation rules for advanced threat detection and SOAR playbooks.
IOC and Outbreak Service Bundle VM	FC-10-ZBDVM-661-02-DD	FortiGuard IOC and Outbreak Detection Service.
OT Service VM	FC-10-ZBDVM-159-02-DD	OT Security Service including advanced OT analytics, risk and compliance reports, event handlers, and use- case correlation rules.
Attack Surface Service VM	FC-10-ZBDVM-175-02-DD	FortiAnalyzer Attack Surface Security Rating and Compliance.
24×7 FortiCare Contract VM	FC-10-ZBDVM-248-02-DD	FortiCare Premium Support.
Accessories		
AC Power Supply	SP-FAZBD4500G-PS	AC power supply for FAZ-BD-4500G, power cable SP-FGPCOR-XX sold separately.
Expansion Kit	SP-FAZBD4500G-SSD	2.5-in 7.6TB SSD in a disk tray expansion kit (2.5-in SSD + disk tray) for FAZ-BD-4500G.

* FortiAnalyzer-BD virtual appliance ADD-ON can stack up to a maximum of 2 million logs/sec

Visit <u>https://www.fortinet.com/resources/ordering-guides</u> for related ordering guides.

Fortinet Corporate Social Responsibility Policy

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