FortiManager

With today's challenging cybersecurity landscape, Security teams are falling behind due to resource constraints and an inability to keep up with the latest threats. Complexity and the unknown diminish security effectiveness – NOC-SOC helps to rejuvenate and strengthen your Security Posture. **Operationalizing Security** improves response time and awareness, and **Fortinet's Security Fabric** is the foundation of that new approach. FortiManager provides one console to manage your network, giving you full control for your Fortinet devices with enterprise-class centralized management. FortiManager offers a common GUI to manage all your Fortinet products including FortiGates, FortiAPs, FortiSwitches, FortiClients, Managed FortiAnalyzers and more, reducing the complexity and number of skilled personnel required to manage the network.

Centralized Management

FortiManager's **Security Operationalized Visibility** across your Fortinet Security Fabric enables true security effectiveness and foresight to identify and understand the scope of threats, and facilites actionable response and remediation of risks.

Quantifiable Security solution information such as Security Maturity and Security Ratings produce measureable accountability, and use those ratings to compare your security preparedness internally and to that of your industry peers.

Centralized Change Management helps you update policies and objects, maintain provisioning templates and easily configure changes to your APs, Switches, SD-WAN and SDN connectors and more, including Workflow Integration with ITSM (ServiceNow) to mitigate security events and apply configuration changes and policy updates.

Figure: FortiManager Deployment

Key Features

- Provides easy centralized configuration, policy-based provisioning, update management, and end to-end network monitoring for your Fortinet installation,

- Segregate management of large deployments easily and securely by grouping devices and agents into geographic or functional ADOMs,

- Manage units in a Security Fabric group as if they were a single device and display the security fabric topology,

- Reduce your management burden and operational costs with fast device and agent provisioning, detailed revision tracking, and thorough auditing capabilities,

- Easily manage complex mesh and star VPN environments while leveraging FortiManager as a local distribution point for software and policy updates
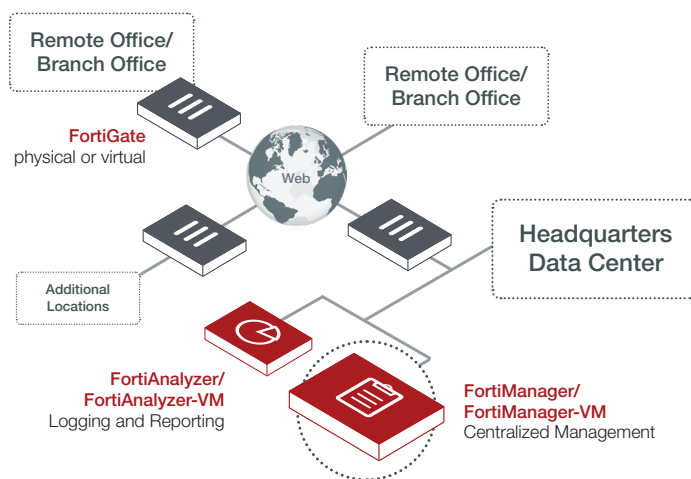
- Seamless integration with FortiAnalyzer appliances provides in-depth discovery, analysis, prioritization and reporting of network security events

- Quickly create and modify policies/objects with a consolidated, drag and drop enabled, in-view editor,

- Script and automate device provisioning, policy pushing, etc. with JSON APIs or build custom web portals with the XML API,

- Leverage powerful device profiles for mass provisioning and configuration of managed devices,

- Centrally control firmware upgrades and content security updates from FortiGuard Center Threat Research & Response,

- Deploy with either a physical hardware appliance or virtual machine with multiple options to dynamically increase storage

Single Pane-of-Glass Management

Fortinet Security Fabric delivers sophisticated security management for unified, end-to-end protection. Deploying Fortinet-based security infrastructure to battle advanced threats, and adding FortiManager to provide single-pane-of-glass management across your entire extended enterprise provides insight into network-wide traffic and threats.

FortiManager offers enterprise-class features to contain advanced threats, but also delivers the industry's best scalability to manage up to 100,000 Fortinet devices. FortiManager, coupled with the FortiAnalyzer family of centralized logging and reporting appliances, provides a comprehensive and powerful centralized management solution for your organization.

Highlights

Multi-Tenancy and Heirarchical — Administrative Domains (ADOMs)
FortiManager provides a hierarchical objects database to facilitate re-use of common configurations and a multi-tenancy architecture to serve multiple customers. The graphical interface makes it easy to view, create and manage ADOMs. You can use ADOMs to manage independent security environments, each ADOM with its own security policies and configuration database. FortiManager enables you to group devices logically or geographically for flexible management, and the zero-touch deployment uses templates to provision devices for quick mass deployment. Define global objects such as Firewall Objects, Policies and Security Profiles to share across multiple ADOMs. Granular permissions allow assigning ADOMs, devices and policies to users based on role and duties.

Configuration and Settings Management
Collectively configure the device settings, objects and policies across your network from a single user interface. The VPN manager simplifies the deployment and allows centrally-provisioned VPN community and monitoring of VPN connections on Google Map. FortiAP Manager allows configuring, deploying and monitoring FortiAPs from a single console with Google Map view. The FortiClient Manager allows centralized configuration, deployment, and monitoring of FortiClients. FortiManager also provides the ability to centrally manage up to 100,000 FortiGate security appliances.
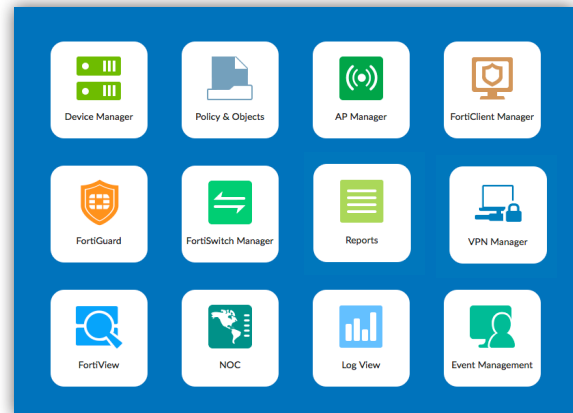

Figure 3: FortiManager Modules

Workflow for Audit and Compliance
FortiManager enables you to review, approve and audit policy changes from a central place, including automated processes to facilitate policy compliance, policy lifecycle management, and enforced workflow to reduce risk for policy changes.

Locally Hosted FortiGuard Labs Security Content
Host security content locally for greater control over security content updates and improved response time for rating database. Includes support for: Application Control and Intrusion Prevention updates, Vulnerability Management, Antispam, Antivirus and Web Filtering updates.

Monitor and Report for Deep Visibility
Access vital security and network statistics, as well as real-time monitoring and integrated reporting provides visibility into network and user activity. For more powerful analytics, combine with a FortiAnalyzer appliance for additional data mining and graphical reporting capabilities.

Managed FortiAP & FortiExtender
Centrally manage FortiAP access points that are controlled by FortiGate devices, through FortiManager. WiFi Templates allow you to create and manage AP profiles, SSIDs, and Wireless Intrusion Detection System (WIDS) profiles and assign to managed FortiAP devices. View FortiGate controllers on a map and monitor connected clients and information about all the APs for FortiGates (fig 2). FortiExtender can be used as a primary connection or deployed as a backup connection to ensure reliability.
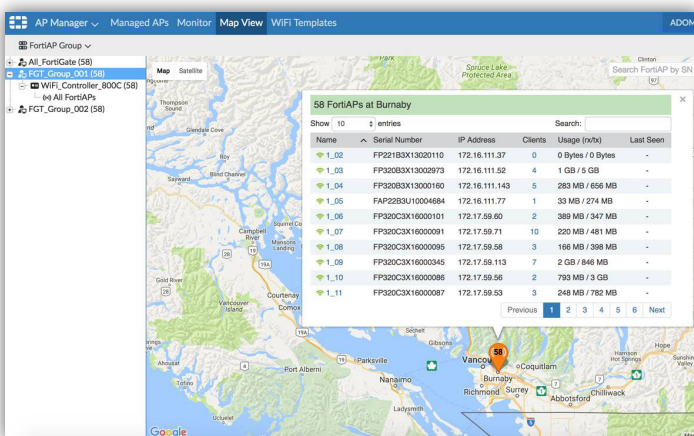

Figure 2

Highlights

Managed FortiAnalyzer

You can now use the new Add FortiAnalyzer device wizard to add a FortiAnalyzer unit to FortiManager to better support managed devices with logging enabled. All devices with logging enabled will automatically send logs to the FortiAnalyzer device. You can use FortiManager to remotely access FortiView, Log View, Events Managements, and Reports on the managed FortiAnalyzer unit.

API for Automation and Orchestration

RESTful API allows MSSPs/large enterprises to create customized, branded web portals for policy and object administration. Automate common tasks such as provisioning new FortiGates and configuring existing devices. Join Fortinet Developer Network (FNDN) to access exclusive articles, how-to content for automation and customization, community-built tools, scripts and sample code.

Traffic Shaping

FortiManager now supports global traffic shaping policies that allow both header and footer traffic shaping policies. Prioritize network traffic to reduce the impact of heavy users or devices from effecting other users or higher priority network traffic. FortiManager also supports traffic shaping policy packages at the ADOM level.

Switch Management

The FortiSwitch Manager module enables you to centrally manage FortiSwitch templates and VLANs, and monitor FortiSwitch devices that are connected to FortiGate devices. You can configure multiple templates for specific FortiSwitch platforms that can be assigned to multiple devices. View as a graphical representation of the connected FortiSwitch devices (fig 4)
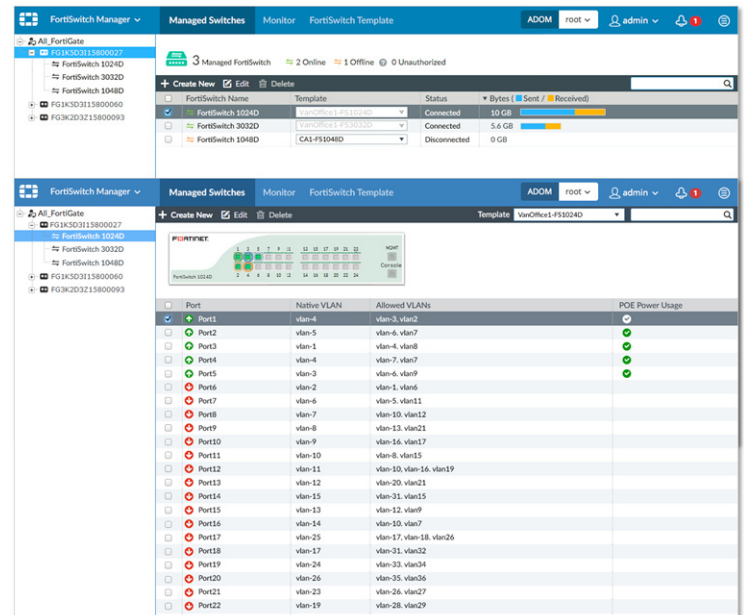

Figure 4

FortiManager VM

Fortinet offers the FortiManager VM in a stackable license model. This model allows you to expand your VM solution as your environment expands. Utilizing virtualization technology, FortiManager-VM is a software-based version of the FortiManager hardware appliance and is designed to run on many virtualization platforms. It offers all the features of the FortiManager hardware appliance.

The FortiManager virtual appliance family minimizes the effort required to monitor and maintain acceptable use policies, as well as identify attack patterns that can be used to fine tune the security policy, thwarting future attackers.

Specifications

FORTIMANAGER VIRTUAL APPLIANCES	FMG-VM-BASE	FMG-VM-10-UG	FMG-VM-100-UG	FMG-VM-1000-UG	FMG-VM-5000-UG	FMG-VM-10K-UG
CAPACITY						
Devices/VDOMs (Maximum)[1]	10	+10	+100	+1,000	+5,000	+10,000
Storage Capacity[3]	100 GB	200 GB	1 TB	4 TB	8 TB	16 TB
GB/Day of Logs[3]	1	2	5	10	25	50
VIRTUAL MACHINE						
Hypervisor Support	VMware ESX/ESXi 5.0/5.1/5.5/6.0/6.5, Microsoft Hyper-V 2008 R2/2012/2012 R2/2016, Citrix XenServer 6.0+ and Open Source Xen 4.1+, KVM on Redhat 6.5+ and Ubuntu 17.04, Amazon Web Services (AWS), Microsoft Azure					
vCPU Support (Minimum / Maximum)	2 / Unlimited					
Network Interface Support (Min / Max)	1 / 4					
Storage Support (Minimum / Maximum)	100 GB / 16 TB					
Memory Support (Minimum / Maximum)	4 GB / Unlimited for 64-bit					
High Availability Support	Yes					

[1] Each Virtual Domain (VDOM) operating on a physical or virtual device counts as one (1) licensed network device   [2] Limited in software to 10,000 devices/VDOMs
[3] Storage Capacity and GB/Day of Logs are not stackable. These values represent the maximum available with purchased license.

Specifications

	FMG-200F	FMG-300E	FMG-400E
CAPACITY AND PERFORMANCE			
Devices/VDOMs (Maximum)[1]	30	100	300
Sustained Log Rates	50	50	50
GB/Day	2	2	2
HARDWARE SPECIFICATIONS			
Storage Capacity	8 TB (2 x 4 TB)	12 TB (4x 3 TB)	24 TB (8x 3 TB)
Total Storage (after RAID)	4 TB	6 TB	21 TB
RAID Levels Supported	RAID 0/1	RAID 0/1/5/10	RAID 0/1/5/6/10/50/60
Default RAID	1	10	50
Hardware Form Factor	1 RU Rackmount	1 RU Rackmount	2 RU Rackmount
Total Interfaces	2xRJ45 GE, 2xSFP	4x GE	2x GE
Console Port	RJ45	DB9	DB9
Removable Hard Drives	No	✓	✓
Redundant Hot Swap Power Supplies	No	No	✓
Chassis Management	✓	✓	✓
DIMENSIONS			
Height x Width x Length (inches)	1.75 x 17.0 x 15.0	1.7 x 17.2 x 19.8	3.5 x 17.2 x 25.2
Height x Width x Length (cm)	4.4 x 43.2 x 38	4.3 x 43.7 x 50.3	8.9 x 43.7 x 64.8
Weight	18.9 lbs (8.6 kg)	31 lbs (14.1 kg)	52 lbs (23.6 kg)
ENVIRONMENT			
AC Power Supply	100-240V 60-50Hz	100–240V AC, 50-60 Hz	100–240V AC, 60–50 Hz
Power Consumption (Average / Maximum)	65W	93W/133W	192.5W/275W
Heat Dissipation	445 BTU/h	456 BTU/h	920 BTU/h
Operating Temperature	32–104°F (0–40°C)	41–95°F (5–35°C)	41–95°F (5–35°C)
Storage Temperature	-31–158°F (-35–70°C)	-40–140°F (-40–60°C)	-40–140°F (-40–60°C)
Humidity	20 to 90% non-condensing	8–90% non-condensing	8–90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)	Up to 9,842 ft (3,000 m)	Up to 9,842 ft (3,000 m)
COMPLIANCE			
Safety Certifications	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

[1] Each Virtual Domain (VDOM) operating on a physical or virtual device counts as one (1) licensed network device

* FGT 7000 Series is supported on all FMG models and does not require Chassis Management.

Global Policies and high availability support available on all models

Specifications

	FMG-2000E	FMG-3000F
CAPACITY AND PERFORMANCE		
Devices/VDOMs (Maximum)[1]	1,200	4,000
Sustained Log Rates	50	150
GB/day logs	2	10
HARDWARE SPECIFICATIONS		
Storage Capacity	36 TB (12x 3 TB)	48 TB (16x 3 TB)
Total Storage (after RAID)	30 TB	42 TB
RAID Levels Supported	RAID 0/1/5/6/10/50/60	RAID 0/1/5/6/10/50/60
Default RAID	50	50
Hardware Form Factor	2 RU Rackmount	3 RU Rackmount
Total Interfaces	4x GE, 2x 10 GE SFP+	4x GE, 2x 10 GE SFP+
Console Port	DB-9	DB-9
Removable Hard Drives	✓	✓
Redundant Hot Swap Power Supplies	✓	✓
Chassis Management	✓	✓
DIMENSIONS		
Height x Width x Length (inches)	3.5 x 17.2 x 25.6	5.2 x 17.2 x 25.5
Height x Width x Length (cm)	8.9 x 43.7 x 64.8	13.2 x 43.7 x 64.8
Weight	58 lbs (26.3 kg)	76 lbs (34.5 kg)
ENVIRONMENT		
AC Power Supply	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz
Power Consumption (Average / Maximum)	293.8W/354W	449W/541W
Heat Dissipation	1209 BTU/h	1846.5 BTU/h
Operating Temperature	50–95°F (10–35°C)	50–95°F (10–35°C)
Storage Temperature	-40–158°F (-40–70°C)	-40–158°F (-40–70°C)
Humidity	8–90% non-condensing	8–90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)	Up to 7,400 ft (2,250 m)
COMPLIANCE		
Safety Certifications	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

Global Policies and high availability support available on all models

FORTINET®

Order Information

PRODUCT	SKU	DESCRIPTION
FortiManager	FMG-200F	Centralized management, log and analysis appliance — 2xRJ45 GE, 2xSFP, 8 TB storage, up to 30x Fortinet devices/virtual domains.
	FMG-300E	Centralized management, log and analysis appliance — 4x GE RJ45, 12 TB storage, up to 100x Fortinet devices/virtual domains.
	FMG-400E	Centralized management, log and analysis appliance — 2x GE RJ45, 24 TB storage, up to 300x Fortinet devices/virtual domains.
	FMG-2000E	Centralized management, log and analysis appliance — 4x GE RJ45, 2x 10 GE SFP+ slots, 36 TB storage, dual power supplies, manages up to 1,200 Fortinet devices/virtual domains.
	FMG-3000F	Centralized management, log and analysis appliance — 4x GE RJ45, 2x 10 GE SFP+ slots, 48 TB storage, dual power supplies, manages up to 4,000 Fortinet devices/virtual domains.
FortiManager Device Upgrade	FMG-DEV-100-UG	FortiManager device upgrade license for adding 100 Fortinet devices/vdoms (3000 series and above - hardware only)
FortiManager VM	Built-in Evaluation	Built-in 15-day EVAL license, no activation required.
	Full Evaluation (60-days)	EVAL license. License and activation required.
	FMG-VM-Base	Base license for stackable FortiManager-VM. Manages up to 10 Fortinet devices/Virtual Domains, 1 GB/Day of Logs and 100 GB storage capacity. Designed for all supported platforms.
	FMG-VM-10-UG	Upgrade license for adding 10 Fortinet devices/Virtual Domains; allows for total of 2 GB/Day of Logs and 200 GB storage capacity.
	FMG-VM-100-UG	Upgrade license for adding 100 Fortinet devices/Virtual Domains; allows for total of 5 GB/Day of Logs and 1 TB storage capacity.
	FMG-VM-1000-UG	Upgrade license for adding 1,000 Fortinet devices/Virtual Domains; allows for total of 10 GB/Day of Logs and 4 TB storage capacity.
	FMG-VM-5000-UG	Upgrade license for adding 5,000 Fortinet devices/Virtual Domains; allows for total of 25 GB/Day of Logs and 8 TB storage capacity.
	FMG-VM-10K-UG	Upgrade license for adding 10,000 Fortinet devices/Virtual Domains by default, with capacity to increase with add-on license. Allows for total of 50 GB/Day of Logs and 16 TB storage capacity.
Additional FortiManager Items	FC-10-FNDN1-139-02-12	1 Year Subscription Renewal for 1 User to Fortinet Developer Network
	FC-10-FNDN2-139-02-12	1 Year Subscription for Unlimited Users to Fortinet Developer Network
	FMG-SDNS	License to operate FortiManager as a dedicated Secure DNS server appliance (3000 series and above – hardware only)

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