

DATA SHEET

FortiGate® -VM with VMware NSX-T™

**Scalable East-West and
North-South Security**

Automated, Advanced Security for VMware NSX-T Data Center Environments

FortiGate-VM next generation firewall is a virtual appliance that integrates with NSX-T security for VMware ESXi and other hypervisors and container orchestration platforms in SDDCs, private clouds, and public clouds. FortiGate-VM augments the microsegmentation that NSX-T 2.4 / 2.5 / 3.0 / 3.1 provides with advanced L7 security and zero-trust segmentation for complete protection against the most sophisticated threats and vulnerabilities.

**Security Features**

- Advanced (L7) threat protection integrated with VMware NSX-T Data Center environments in SDDCs as well as private and public clouds
- Zero-trust segmentation to protect against lateral threats
- Streamlined SecOps, with automation and orchestration via Fortinet Fabric Connectors
- Single-pane-of-glass management through VMware NSX Manager, with full visibility in FortiManager

Certification

- FortiGate-VM is certified with VMware's Service Chaining for NSX-T Data Center (Firewall) and Edge Service Insertion for NSX-T Data Center (Firewall). For the compatibility matrix, go to VMware Compatibility Guide.

Management

- Ability to manage virtual and physical appliances from a single pane of glass management platform
- Wide array of licensing choices to fit any infrastructure requirement
- VDOM-enabled models for multi-tenant environments

Security Fabric

- Enables Fortinet and Fabric-ready partners' products to collaboratively integrate and provide end-to-end security across the entire attack surface



FortiManager



FortiAnalyzer

Fortinet's comprehensive security virtual appliance lineup supports VMware NSX-T

DEPLOYMENT

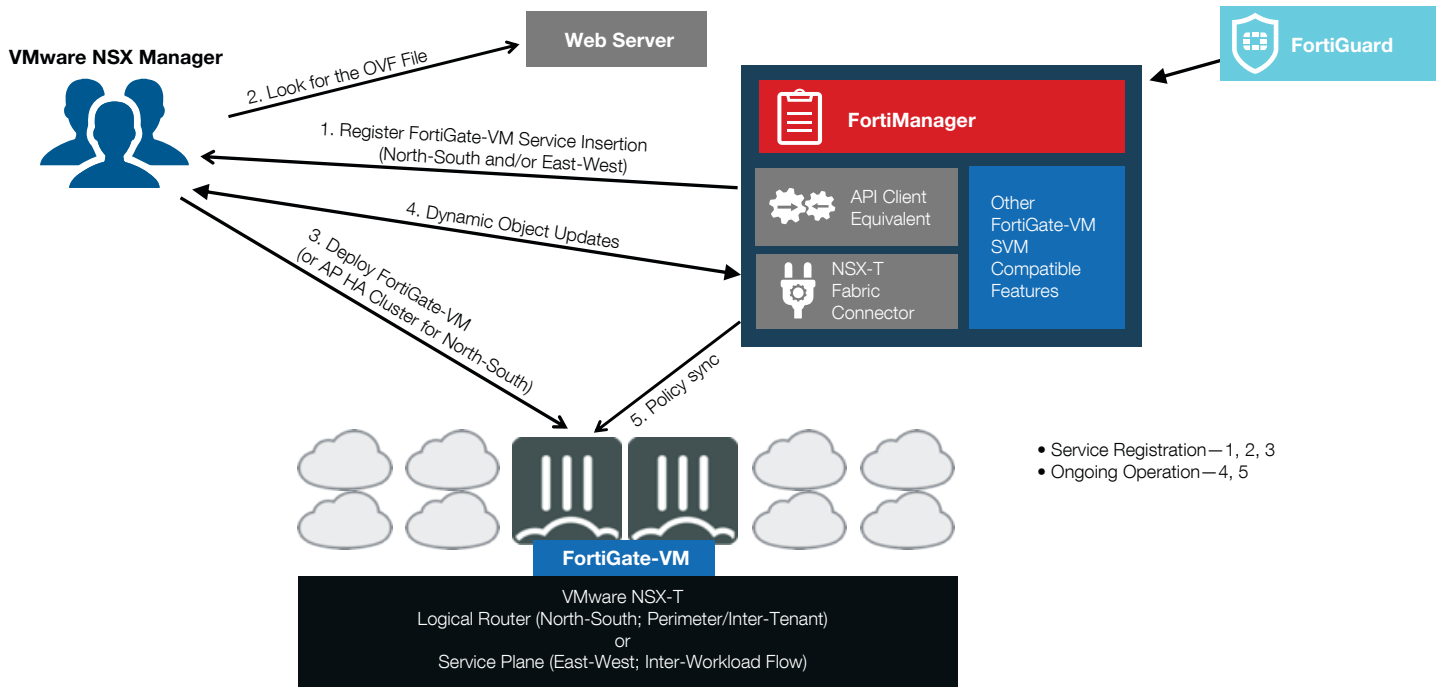


Figure 1: FortiGate-VM and FortiManager seamlessly integrate with VMware NSX Manager.

The FortiGate-VM provides interoperability with NSX-T Data Center through service insertion as a third-party edge firewall (Figure 1).

Core capabilities include:

- By means of Fabric Connectors activated from the FortiManager console, FortiGate-VM integrates with NSX-T Data Center to register both east-west and north-south service insertions.
- From that point on, security can be managed from the NSX-T dashboard and is automatically carried through to the FortiGate-VM instances running in the NSX-T Data Center.
- Fortinet Fabric Connector automatically updates security policies associated with dynamic objects in NSX-T whenever changes are made to underlying IP addresses, application metadata, and annotations. This capability, which also extends to public cloud infrastructures (such as AWS, Azure, and GCP), relieves organizations of the need to manually update security policies, freeing up their time for other business-critical duties.

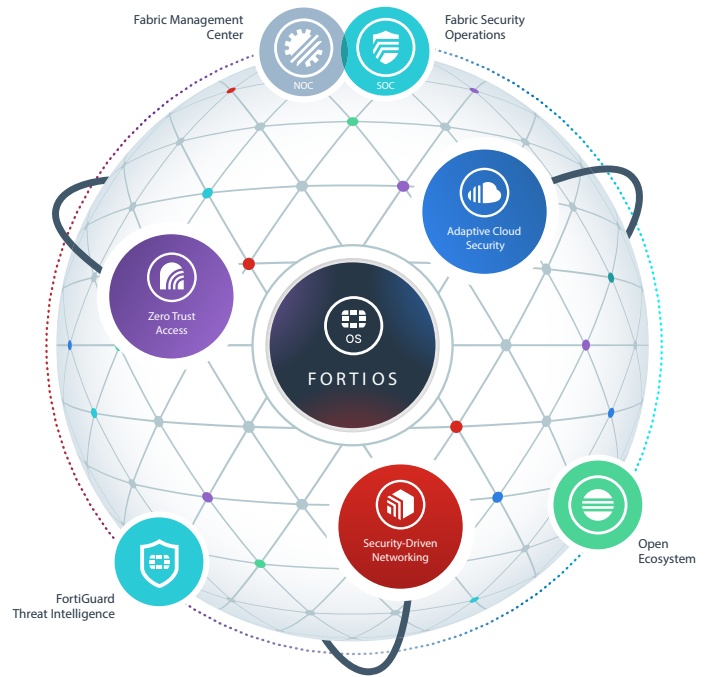
FORTINET SECURITY FABRIC

Security Fabric

The industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- **Broad:** Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints and users
- **Integrated:** Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest Ecosystem
- **Automated:** Context aware, self-healing network & security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.



FortiOS™ Operating System

FortiOS, Fortinet's leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric's ability to deliver consistent security across hybrid deployment models consisting on appliances, software and As-a-Service with SASE, ZTNA and other emerging cybersecurity solutions.

SERVICES

FortiGuard™ Security Services

FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet's solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world's leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.

FortiCare™ Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1,000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.



SPECIFICATIONS

	FORTIGATE-VM01/01V	FORTIGATE-VM02/02V	FORTIGATE-VM04/04V
Technical Specifications			
vCPU Support (Minimum / Maximum)	1 / 1	1 / 2	1 / 4
Memory Support (Minimum)	2 GB	2 GB	2 GB
Storage Support (Minimum / Maximum)	32 GB / 2 TB	32 GB / 2 TB	32 GB / 2 TB
Wireless Access Points Controlled (Tunnel / Global)	32 / 64	512 / 1,024	512 / 1,024
Virtual Domains (Default / Maximum) *	10 / 10	10 / 25	10 / 50
Firewall Policies	10,000	10,000	10,000
Maximum Number of Registered Endpoints	2,000	2,000	8,000
Unlimited User License	Yes	Yes	Yes

	FORTIGATE-VM08/08V	FORTIGATE-VM16/16V	FORTIGATE-VM32/32V	FORTIGATE-VMUL/ULV
Technical Specifications				
vCPU Support (Minimum / Maximum)	1 / 8	1 / 16	1 / 32	1 / unlimited
Memory Support (Minimum)	2 GB	2 GB	2 GB	2 GB
Storage Support (Minimum / Maximum)	32 GB / 2 TB	32 GB / 2 TB	32 GB / 2 TB	32 GB / 2 TB
Wireless Access Points Controlled (Tunnel / Global)	1,024 / 4,096	1,024 / 4,096	1,024 / 4,096	1,024 / 4,096
Virtual Domains (Default / Maximum) *	10 / 500	10 / 500	10 / 500	10 / 500
Firewall Policies	200,000	200,000	200,000	200,000
Maximum Number of Registered Endpoints	20,000	20,000	20,000	20,000
Unlimited User License	Yes	Yes	Yes	Yes

Network Interface Support

The maximum number of network interfaces consumable by a FortiGate instance is 24 starting with FortiGate version 6.4.0. Prior versions allow 18. The minimum number is 1. The actual number of network interfaces attachable to instances varies depending on cloud platforms and instance types, and they may not allow you to attach the greater number of interfaces to an instance than their maximum limits even while FortiGate allows up to 24.

** FG-VMxxV and FG-VMxxS series do not come with a multi-VDOM feature by default. You can add it by applying separate VDOM addition perpetual licenses. See ORDER INFORMATION for VDOM SKUs. Special licenses for offline network environments are available for VMxxV series (01V to ULV), and they have the same specifications as those of VMxxV shown in the table above. For ordering offline licenses, please consult Fortinet sales representatives.

System Requirements

NSX-T integration requires a deployment of FortiManager (as a physical appliance or VM instance) with a valid license/entitlement in addition to a FortiGate-VM. See the FortiManager datasheet for the spec for details: <https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/fortimanager.pdf>

Note : FortiGate-VM 6.2.1 special build and FortiManager 6.2.2+ support VMware NSX-T 2.4 and 2.5. FortiGate-VM 6.4.3 and FortiManager 6.4.4+ support VMware NSX-T 2.5, 3.0, and 3.1. FortiManager is required for the NSX-T deployments. Supported FortiGate-VM versions are found in VMware Compatibility Guide.

FortiGate-VM 6.2.1 sp can be upgraded to 6.2.3+ GA. Upgrading to FortiGate-VM 6.2.2 is not supported.

ORDER INFORMATION

Product	SKU	Description
FortiGate-VM01	FG-VM01, FG-VM01V	FortiGate-VM 'virtual appliance': 1x vCPU core and unlimited RAM. No VDOM by default for FG-VM01V model.
FortiGate-VM02	FG-VM02, FG-VM02V	FortiGate-VM 'virtual appliance': 2x vCPU cores and unlimited RAM. No VDOM by default for FG-VM02V model.
FortiGate-VM04	FG-VM04, FG-VM04V	FortiGate-VM 'virtual appliance': 4x vCPU cores and unlimited RAM. No VDOM by default for FG-VM04V model.
FortiGate-VM08	FG-VM08, FG-VM08V	FortiGate-VM 'virtual appliance': 8x vCPU cores and unlimited RAM. No VDOM by default for FG-VM08V model.
FortiGate-VM16	FG-VM16, FG-VM16V	FortiGate-VM 'virtual appliance': 16x vCPU cores and unlimited RAM. No VDOM by default for FG-VM016V model.
FortiGate-VM32	FG-VM32, FG-VM32V	FortiGate-VM 'virtual appliance': 32x vCPU cores and unlimited RAM. No VDOM by default for FG-VM032V model.
FortiGate-VMUL	FG-VMUL, FG-VMULV	FortiGate-VM 'virtual appliance': Unlimited vCPU cores and RAM. No VDOM by default for FG-VMULV model.
Optional Accessories		
Virtual Domain License Add 5	FG-VDOM-5-UG	Upgrade license for adding 5 VDOMs to FortiOS 5.4 and later, limited by platform maximum VDOM capacity.
Virtual Domain License Add 15	FG-VDOM-15-UG	Upgrade license for adding 15 VDOMs to FortiOS 5.4 and later, limited by platform maximum VDOM capacity.
Virtual Domain License Add 25	FG-VDOM-25-UG	Upgrade license for adding 25 VDOMs to FortiOS 5.4 and later, limited by platform maximum VDOM capacity.
Virtual Domain License Add 50	FG-VDOM-50-UG	Upgrade license for adding 50 VDOMs to FortiOS 5.4 and later, limited by platform maximum VDOM capacity.
Virtual Domain License Add 240	FG-VDOM-240-UG	Upgrade license for adding 240 VDOMs to FortiOS 5.4 and later, limited by platform maximum VDOM capacity.

The number of configurable VDOMs can be stacked up to the maximum number of supported VDOMs per vCPU model. Please refer to Virtual Domains (Maximum) under SPECIFICATIONS.



ORDERING INFORMATION

The following SKUs adopt the annual subscription licensing scheme:

Product	SKU	Description
FortiGate-VM01-S	FC1-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (1 vCPU core)
FortiGate-VM02-S	FC2-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (2 vCPU cores)
FortiGate-VM04-S	FC3-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (4 vCPU cores)
FortiGate-VM08-S	FC4-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (8 vCPU cores)
FortiGate-VM16-S	FC5-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (16 vCPU cores)
FortiGate-VM32-S	FC6-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (32 vCPU cores)
FortiGate-VMUL-S	FC7-10-FGVVS-<Support Bundle>-02-DD	Subscriptions license for FortiGate-VM (Unlimited vCPU cores)
Support Bundle		
258	FortiCare services (only) included	
815	Enterprise Bundle included	
820	360 Protection Bundle included	
990	UTP Bundle included	

FortiOS 6.2.3+ and 6.4.0+ support the FortiGate-VM S-series. The FortiGate-VM S-series does not have RAM restriction on all vCPU levels.

FortiManager 6.2.3+ and 6.4.0+ support managing FortiGate-VM S-series devices. However, only specific FortiManager versions support NSX-T integration. Refer to System Requirements.

BUNDLES



FortiGuard Bundle

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiCare	ASE ¹	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web and Video ² Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard IoT Detection Service	•	•		
FortiGuard Industrial Service	•	•		
FortiConverter Service	•	•		
SD-WAN Orchestrator Entitlement	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
Fortinet SOaaS	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

1. 24x7 plus Advanced Services Ticket Handling

2. Available when running FortiOS 7.0



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