

# FortiGate<sup>®</sup>-VM on Amazon Web Services

Next Generation Firewall  
VPN Gateway



The FortiGate-VM on AWS delivers next generation firewall capabilities for organizations of all sizes, with the flexibility to be deployed as next generation firewall and/or VPN gateway. It protects against cyber threats with high performance, security efficacy and deep visibility.

## Security

- Protects against known exploits and malware using continuous threat intelligence provided by FortiGuard Labs security services
- Identify thousands of applications including cloud applications for deep inspection into network traffic
- Protects against unknown attacks using dynamic analysis and provides automated mitigation to stop targeted attacks
- Automate incident response and threat intelligence from AWS GuardDuty threat detection service

## Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs, ICISA, Virus Bulletin and AV Comparatives
- An AWS Security Competency partner

## Networking

- Delivers extensive routing, switching, and VPN capabilities to consolidate networking and security functionality
- Design for high availability using AWS health checks

## Management

- Ability to manage virtual appliances and physical appliances from a single pane of glass management platform
- Map your security postures to scale up and down with your EC2
- Wide array of licensing choices to fit any infrastructure requirement
- VDOM-enabled models for multi-tenant environments (VDOM is supported with BYOL only)

## 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



FortiSandbox



FortiAuthenticator



FortiSIEM



FortiWeb



FortiMail

Fortinet's comprehensive security virtual appliance lineup supports on AWS

## Deployment



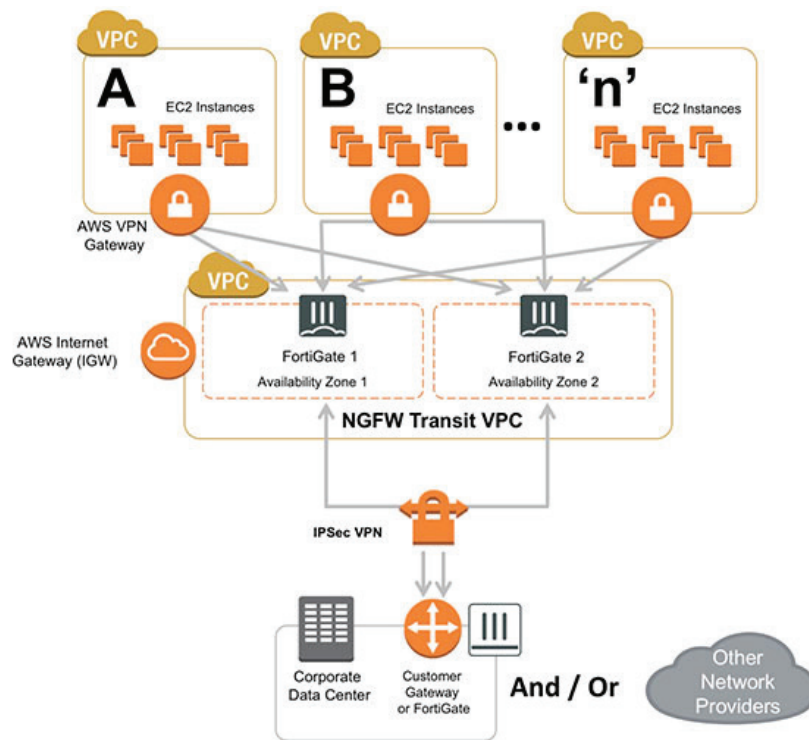
### Next Generation Firewall (NGFW)

- Combines threat prevention security capabilities into single power virtual appliance instance
- Reduces complexity by creating campus topology view and providing granular visibility of devices, users and threat information
- Identifies and stops threats with powerful intrusion prevention beyond port and protocol that examines the actual content of your network traffic
- Extends security capabilities with Security Fabric integration



### VPN Gateway

- Direct Connect utilizing FortiGate firewalls for SSL and IPsec VPNs into and out of the AWS VPCs
- VGW to FortiGate VPN between VPCs
- Hybrid cloud site to site IPsec VPN
- Remote access VPN



FortiGate-VM on AWS deployment as NGFW and VPN Gateway

## AWS Integration

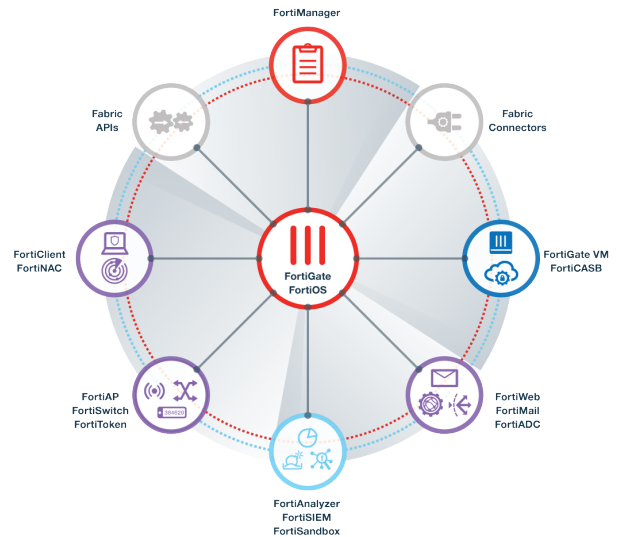
- Fortinet embeds the latest AWS Auto Scaling functionality and FortiGate CloudFormation template configuration into our cloud security fabric, providing automation based on resource demand from your cloud workloads.
- Accelerate time-to-protection for new threats detected by AWS GuardDuty by deploying native AWS scripting to automatically push malicious IP or DNS addresses into dynamic FortiGate policies.
- Provide service resiliency with AWS native load balancer.

# Fortinet Security Fabric

## Security Fabric

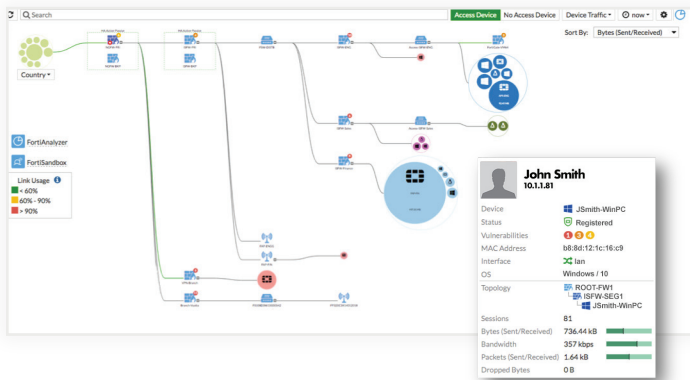
The Security Fabric delivers broad visibility, integrated AI-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network. All this is tied together under a single pane of glass management for significantly thereby delivering leading security capabilities across your entire environment while also significantly reducing complexity.

FortiGates are the foundation of Security Fabric, expanding security via visibility and control by tightly integrating with other Fortinet security products and Fabric-Ready Partner solutions.



## FortiOS

Control all security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce complexity, costs, and response time with a truly consolidated next-generation security platform.



- A truly consolidated platform with a single OS and pane-of-glass for all security and networking services across all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance. Ability to leverage latest technologies such as deception-based security.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated AI-driven breach prevention and advanced threat protection.
- Fulfill your networking needs with extensive routing, switching, and SD-WAN capabilities along with intent-based segmentation.
- Utilize SPU hardware acceleration to boost security capability performance.

## 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.



Our FortiCare customer support team provides global technical support for all Fortinet products. With support staff in the Americas, Europe, Middle East, and Asia, FortiCare offers services to meet the needs of enterprises of all sizes.

For more information, please refer to [forti.net/fortiguard](https://forti.net/fortiguard) and [forti.net/forticare](https://forti.net/forticare)

## Licensing

With a multitude of deployment methods supported across various private and public cloud deployments, FortiGate-VM for AWS supports both on-demand (PAYG) and bring-your-own-license (BYOL) licensing models.

On-demand licensing is a highly flexible option for both initial deployments and growing them as needed. With a wide selection of supported instance types, there is a solution for every use case. This license offers FortiOS with UTM bundle.

BYOL is ideal for migration use cases, where an existing private cloud deployment is migrated to a public cloud deployment. When using an existing license, the only additional cost would be the price for the AWS instances.

## Specifications

FortiGate-VM is available for purchase in all regions, including AWS GovCloud and AWS China.

The following is the system requirement for BYOL licenses:

	VM-00	VM-01/01V	VM-02/02V	VM-04/04V
<b>System Requirement</b>				
Core (Minimum / Maximum)	1 / 1	1 / 1	1 / 2	1 / 4
Virtual Domains (Default / Maximum) **	2 / 2	10 / 10	10 / 25	10 / 50
	VM-08/08V	VM-16/16V	VM-32/32V	VM-UL/ULV
<b>System Requirement</b>				
Core (Minimum / Maximum)	1 / 8	1 / 16	1 / 32	1 / unlimited
Virtual Domains (Default / Maximum) **	10 / 500	10 / 500	10 / 500	10 / 500

\*\* Not applicable to FG-VMxv series as VDOMs are not supported by default. VDOMs can be added with separately purchased VDOM licenses. See ORDER INFORMATION for VDOM SKUs.



For sizing guide, please refer to the sizing document available on [www.fortinet.com](http://www.fortinet.com)

## Order Information

The following are SKUs that can be acquired for BYOL scheme. For PAYG/On-Demand subscription, various instance/VM types are available on Marketplace. BYOL is perpetual licensing, as opposed to PAYG/On-Demand, which is an hourly subscription available with marketplace-listed products.

Product	SKU	Description
FortiGate-VM00	FG-VM00	FortiGate-VM 'virtual appliance'. 1x vCPU core, (up to) 2 GB RAM. No Extreme DB support.
FortiGate-VM01	FG-VM01, FG-VM01V	FortiGate-VM 'virtual appliance'. 1x vCPU core and (up to) 2 GB RAM. No VDOM by default for FG-VM01V model.
FortiGate-VM02	FG-VM02, FG-VM02V	FortiGate-VM 'virtual appliance'. 2x vCPU cores and (up to) 4 GB RAM. No VDOM by default for FG-VM02V model.
FortiGate-VM04	FG-VM04, FG-VM04V	FortiGate-VM 'virtual appliance'. 4x vCPU cores and (up to) 6 GB RAM. No VDOM by default for FG-VM04V model.
FortiGate-VM08	FG-VM08, FG-VM08V	FortiGate-VM 'virtual appliance'. 8x vCPU cores and (up to) 12 GB RAM. No VDOM by default for FG-VM08V model.
FortiGate-VM16	FG-VM16, FG-VM16V	FortiGate-VM 'virtual appliance'. 16x vCPU cores and (up to) 24 GB RAM. No VDOM by default for FG-VM016V model.
FortiGate-VM32	FG-VM32, FG-VM32V	FortiGate-VM 'virtual appliance'. 32x vCPU cores and (up to) 48 GB 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.

FG-VMxx"V" 6.0.0 supports VDOM by adding separate VDOM licenses. 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.

## 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	Threat Protection	UTM	Enterprise Protection
FortiCASB SaaS-only Service ^			•
FortiGuard Industrial Service ^			•
FortiGuard Security Rating Service* ^			•
FortiGuard Antispam		•	•
FortiGuard Web Filtering		•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR*, Virus Outbreak Protection* and FortiSandbox Cloud Service*	•	•	•
FortiGuard IPS Service	•	•	•
FortiCare + FortiGuard App Control Service	•	•	•

\* Available when running FortiOS 6.0.1 and above ^ With new Q3-2018 SKUs