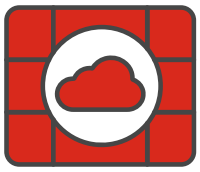
Fortinet Cloud NGFW Solutions



FortiOS powers all of Fortinet's next generation firewall (NGFW) offerings, including cloud network security solutions. Customers can purchase these solutions in flexible ways that suit their requirements, such as virtual machines (VM) for private and public cloud networks and software-as-a-service solutions for public cloud networks. They can also buy subscription licenses from cloud marketplaces and choose between pay as you go (PAYG) options or annual commitment contracts. To help customers select the most suitable cloud network security solution, this guide provides different options:

- **FortiGate-VM**: for customers seeking to protect private cloud workloads or tailor FortiGate-VM deployment to their needs in the public cloud, FortiGate-VM is the best (and only) option. It allows them to specifically design network integration and use the latest FortiOS enhancements. FortiGate-VM is the only cloud NGFW solution offering NAT, VPN, and SD-WAN functionality.
- **FortiFlex**: allows customers to consume FortiGate-VM and other Fortinet products on-demand using a points-based system, but does not provide unique technical capabilities.

FortiGate-VM Virtual NGFW

FortiGate is the flagship NGFW product family from Fortinet that delivers high-speed networking, increased scalability, and optimized performance features. Operators using the FortiGate NGFW can manage all of their security risks with the industry's best-of-breed IPsec, GTP, PFCP, IPS, and TLS inspection; and threat protection. FortiGate comes in different form factors and sizes and you can deploy it at the network edge, the core data center, and the public cloud. Fortinet offers FortiGate as appliances or VMs with different options for interface types, port density, security efficacy, and throughput to keep your network connected and secure wherever it is needed.

FortiGate-VM is available as a virtual appliance and for several cloud flavors, such as:

- **Public clouds**: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Oracle Cloud Infrastructure (OCI), IBM Cloud, and Alibaba Cloud (AliCloud)
- **Private clouds/hypervisors**: VMware (vSphere/NSX-T), OpenStack/KVM, Microsoft Hyper-V, Nutanix, and Citrix-Xen

Product Offerings - Security

Fortinet offers FortiGate-VM in the following license schemes:

- **Term-based subscription**: FortiGate-VM s-series
- **FortiFlex**: points-based consumption model for enterprise and managed security service providers (MSSP) (12-, 36-, or 60-month subscription)
- **Public cloud PAYG**: per-hour priced (based in number of vCPUs) PAYG offers available in AWS, Azure, GCP, and OCI marketplace

	ATP	UTP	ENTERPRISE
SECURITY UPDATES AND SERVICES			
Device/OS Detection	✓	✓	✓
SaaS Database (ISDB)	✓	✓	✓
Application Control	✓	✓	✓
Certificates	✓	✓	✓
IPS	✓	✓	✓
Antivirus	✓	✓	✓
Botnet DB	✓	✓	✓
Mobile Malware	✓	✓	✓
FortiGate Cloud Sandbox	✓	✓	✓
Outbreak Prevention	✓	✓	✓
Web Filtering		✓	✓
Video Filtering		✓	✓
Secure DNS Filtering		✓	✓
AntiSpam		✓	✓
IoT Mac Database		✓	✓
IoT Query Service			✓
Fortinet Security Fabric Rating			✓
NETWORKING AND MANAGEMENT SERVICES			
DDNS	✓	✓	✓
IPv6 DDNS	✓	✓	✓
GeoIP Updates	✓	✓	✓
FORTICARE SUPPORT SERVICES			
Enhanced Support (24×7)	✓	✓	✓
FortiConverter			✓

FortiGate-VMs with **eight or more vCPUs** are eligible to run the full extended database (DB). Any FortiGate-VM with fewer than eight cores receives a slim DB for performance, which is a smaller version of the full-extended DB that contains top active IPS signatures. The customer can choose eight or more vCPUs for full IPS protection or lower vCPUs for cost and performance.

See Support full extended IPS database for FortiGate VMs with eight cores or more.

Product Offerings - Performance

FortiGate-VM delivers high performance by combining technologies such as single root I/O virtualization (SR-IOV) and Fortinet vSPU. SR-IOV allows the partition of a single physical network controller into multiple virtual interfaces called virtual functions. The Fortinet vSPU refers to the combination of FortiOS vNP and DPDK libraries in the FortiGate-VM. The vSPU enhances FortiGate-VM performance by offloading part of packet processing to userspace while bypassing kernel within the operating system. The vNP is the software emulation of a subset of Fortinet's network processor (NP).

For performance information, see the FortiGate-VM on VMware ESXi datasheet and FortiGate-VM on Linux KVM datasheet.

Order Information - Public Cloud

PUBLIC CLOUD		
1 VCPU	**ORDER INFORMATION**	**RECOMMENDED INSTANCE***
AWS	FC1-10-FGVVS-990-02-DD	t2.small/c8gn.medium
Azure		Standard_D2s_v5/Standard_D2ps_v6
GCP		n1-standard-1/c4a-standard-1
2 VCPU		
AWS	FC2-10-FGVVS-990-02-DD	c6in.large/c8gn.large
Azure		Standard_D2s_v5/Standard_D2ps_v6
GCP		c4-standard-2/c4a-standard-2
Oracle		VM.Standard3.Flex (1 OCPU)/VM.Standard.A1.Flex (2 OCPU)
AliCloud		ecs.c9i.large
4 VCPU		
AWS	FC3-10-FGVVS-990-02-DD	c6in.xlarge/c8gn.xlarge
Azure		Standard_D4s_v5/Standard_D4ps_v6
GCP		c4-standard-4/n2-standard-4/c4a-standard-4
Oracle		VM.Standard3.Flex(2 OCPU)/VM.Standard.A1.Flex (4 OCPU)
AliCloud		ecs.c9i.xlarge
8 VCPU		
AWS	FC4-10-FGVVS-990-02-DD	c6in.2xlarge/c8gn.2xlarge
Azure		Standard_D8s_v5/Standard_D8ps_v6
GCP		c4-standard-8/n2-standard-8/c4a-standard-8
Oracle		VM.Standard3.Flex(4 OCPU)/VM.Standard.A1.Flex (8 OCPU)
AliCloud		ecs.c9i.2xlarge
16 VCPU		
AWS	FC5-10-FGVVS-990-02-DD	c6in.4xlarge/c8gn.4xlarge
Azure		Standard_D16s_v5/Standard_D16ps_v6
GCP		c4-standard-16/n2-standard-16/c4a-standard-16
Oracle		VM.Standard3.Flex(8 OCPU)/ VM.Standard.A1.Flex (16 OCPU)
AliCloud		ecs.c9i.4xlarge
32 VCPU		
AWS	FC6-10-FGVVS-990-02-DD	c6in.8xlarge/c8gn.8xlarge
Azure		Standard_D32s_v5/Standard_D32ps_v6
GCP		c4-standard-32/c4a-standard-32
Oracle		VM.Standard3.Flex 16 OCPU/VM.Standard.A1.Flex (32 OCPU)
AliCloud		ecs.c9i.8xlarge
UNLIMITED CPU		
AWS	FC7-10-FGVVS-990-02-DD	c6in.16xlarge/c8gn.16xlarge
GCP		c4-standard-48, c4-standard-96, c4a-standard-48, c4a-standard-64, c4a-standard-72
Oracle		VM.Standard3.Flex/VM.Standard.A1.Flex

* c6in.large to c6in.8xlarge support up to 12.5 Gbps.

Order Information - Public Cloud

PUBLIC CLOUD - PAYG			
ARCHITECTURE	ORDER INFORMATION	RECOMMENDED INSTANCE	MARKETPLACE PRODUCT
AWS	PAYG	c6in.xlarge (Intel)	AWS FortiGate x64
AWS ARM		c8gn.large (ARM)	AWS FortiGate ARM
Azure*		Dv5 Series (Intel) Dasv5 Series (AMD) Dpsv6 Series (ARM)	Azure FortiGate
GCP		c4-standard-4 (Intel) c4a-standard-4 (ARM)	GCP FortiGate x64
OCI**		VM.Standard.3.Flex (Intel) VM.Standard.E5.Flex (AMD) VM.Standard.A1.Flex (ARM)	OCI 2 OCPU x64 OCI 4 OCPU x64 OCI 8 OCPU x64 OCI 24 OCPU x64
AliCloud		ecs.c9i Instance Family (Intel)	AliCloud FortiGate x64

* Azure PAYG is selected on the portal GUI with the FortiOS version.

** In Oracle Cloud, note the following:

- AMD and Intel: 1 OCPU = 2 vCPU
- ARM: 1 OCPU = 1 vCPU

Plan deployments accordingly.

Order Information - Private Cloud

HYBRID CLOUD: VMWARE ESXI, KVM, MICROSOFT HYPER-V, AND XEN	
1 VCPU	TERM SUBSCRIPTION ORDER INFORMATION
ATP Bundle	FC1-10-FGVVS-993-02-DD
UTP Bundle	FC1-10-FGVVS-990-02-DD
Enterprise Bundle	FC1-10-FGVVS-814-02-DD
2 VCPU	
ATP Bundle	FC2-10-FGVVS-993-02-DD
UTP Bundle	FC2-10-FGVVS-990-02-DD
Enterprise Bundle	FC2-10-FGVVS-814-02-DD
4 VCPU	
ATP Bundle	FC3-10-FGVVS-993-02-DD
UTP Bundle	FC3-10-FGVVS-990-02-DD
Enterprise Bundle	FC3-10-FGVVS-814-02-DD
8 VCPU	
ATP Bundle	FC4-10-FGVVS-993-02-DD
UTP Bundle	FC4-10-FGVVS-990-02-DD
Enterprise Bundle	FC4-10-FGVVS-814-02-DD
16 VCPU	
ATP Bundle	FC5-10-FGVVS-993-02-DD
UTP Bundle	FC5-10-FGVVS-990-02-DD
Enterprise Bundle	FC5-10-FGVVS-814-02-DD
32 VCPU	
ATP Bundle	FC6-10-FGVVS-993-02-DD
UTP Bundle	FC6-10-FGVVS-990-02-DD
Enterprise Bundle	FC6-10-FGVVS-814-02-DD
UNLIMITED CPU	
ATP Bundle	FC7-10-FGVVS-993-02-DD
UTP Bundle	FC7-10-FGVVS-990-02-DD
Enterprise Bundle	FC7-10-FGVVS-814-02-DD
VDOM SUBSCRIPTION OPTIONS	
+5 VDOMs	FC1-10-FGVVS-498-02-DD
FORTICARRIER UPGRADE SUBSCRIPTION	
FortiCarrier Upgrade Subscription	FC-10-FGVVS-948-02-DD

FortiFlex Program

Product Offering - Overview

FortiFlex allows customers to easily manage license entitlements for FortiGate-VM, FortiWeb-VM, FortiManager-VM, and FortiAnalyzer-VM. You can use the FortiFlex portal or its API to create VM configurations, generate licensing entitlements, and monitor resource consumption in the form of points. FortiFlex subscribers can create multiple sets of a single VM entitlement that corresponds to a licensed VM. Each entitlement contains a base VM with the number of vCPUs, FortiGuard services (bundles or à la carte), and FortiCare support services. Resource consumption is based upon predefined points that are calculated daily.

Devices with usage entitlements require installing a one-time token on every VM. You can inject these tokens into the FortiGate-VM via cloud-init or an OVF environment, once the VM configurations and vCPU quantities are defined in the FortiFlex portal, and the VMs are deployed on the customer-managed platform in supported clouds and hypervisors.

FortiFlex is available as a prepaid service for enterprise customers and as a postpaid service for approved MSSP partners.

FortiFlex provides a powerful REST API that you can combine with the FortiOS REST API to provide a full automated VM lifecycle management.

For information about the FortiFlex program, see its ordering guide.

Order Information

- You must register all SKU purchases within 365 days of the purchase date.
- For the MSSP program only, a minimum consumption of 50,000 points per year is required.

For Enterprise, in the case of excess consumption, there is a 90-day grace period to recover from a negative balance. VM entitlements stop operation after the grace period ends. During the grace period, new entitlements cannot be created.

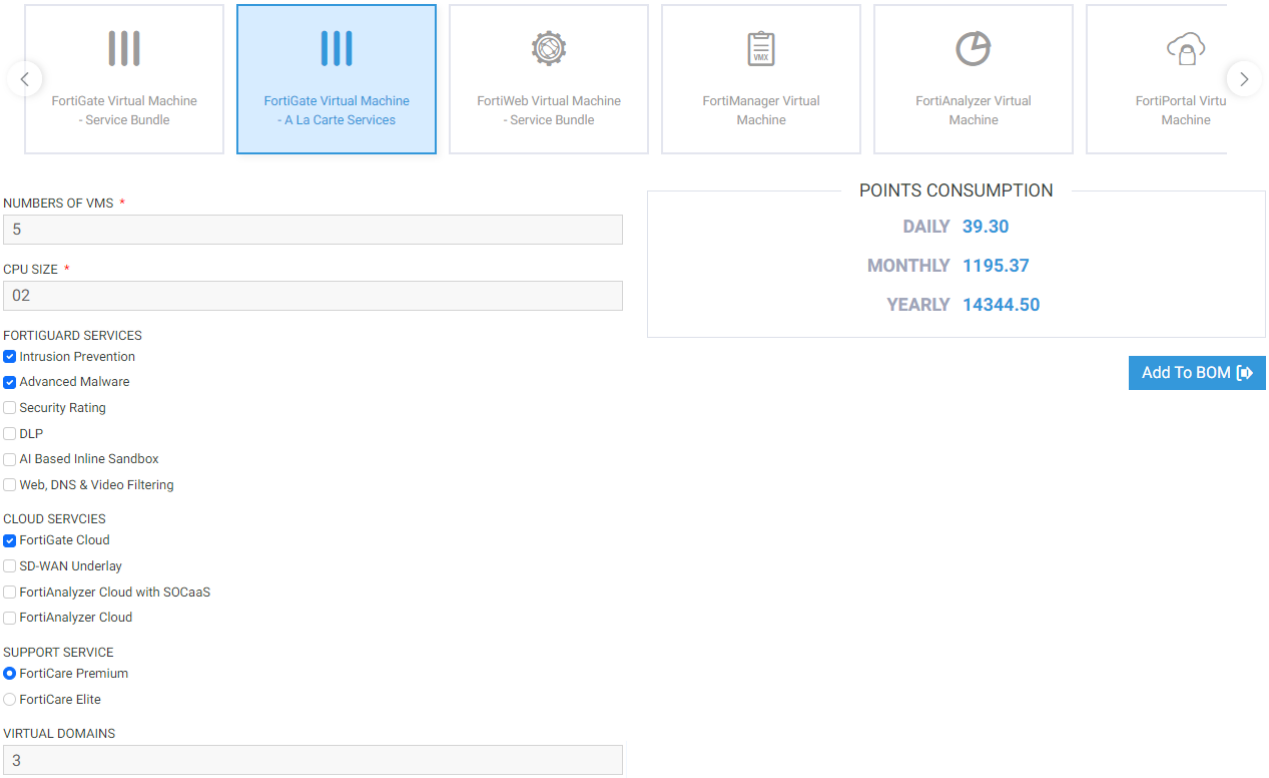
For MSSP, in the case of underconsumption, there is a true-up to meet the minimum annual consumption amount if usage is lower. VM entitlements stop operation after the grace period ends.

FLEX-VM PROGRAMS		SKU	POINTS ROLLOVER	POINTS EXPIRATION
Prepaid - Enterprise	Program	FC-10-ELAVR-221-02-DD (DD = 12, 36, or 60 months)	N/A	
	Stackable Packs	LIC-FLXPTS-1K LIC-FLXPTS-10K LIC-FLXPTS-50K LIC-FLXPTS-100K	100%	3 years from purchase date
	BULK Packs	LIC-FLXPTS-BULK-5K (MOQ 50,000 points)	100%	3 years from purchase date
		LIC-FLXPTS-BULK (MOQ 1,000,000 poins)	100%	5 years from purchase date
Postpaid - MSSP	Program	FC-10-ELAVS-221-02-DD (DD = 12, 36, or 60 months)	N/A	
	Monthly Billing	FCB-ELAVM-01	N/A	

FortiFlex Program

FortiFlex Daily Points Pricing

You can calculate daily points pricing for both FortiGate-VM and FortiWeb-VM using the FortiFlex Calculator available on FNDN. Select the product type, number of vCPUs, CPU size, and service bundle accordingly.



Fortinet Training and Certification

FCSS – Enterprise Firewall Administrator training

Learn how to use the most common FortiGate features.

In interactive labs, explore firewall policies, user authentication, high availability, SSL VPN, site-to-site IPsec VPN, Fortinet Security Fabric, and how to protect your network using security profiles, such as IPS, antivirus, web filtering, application control, and more. These administration fundamentals will provide a solid understanding of how to implement the most common FortiGate features.

FCSS - Public Cloud Security Architect Training and Certification

This course teaches how to use various methods to deploy Fortinet solutions in the public cloud. It covers using third-party automation tools to deploy and secure cloud resources, effectively troubleshooting common connectivity issues in Azure and AWS, and leveraging FortiCNP to streamline risk management for cloud workloads.

Course Descriptions

For prerequisites, agenda topics, and learning objectives, visit:

https://training.fortinet.com/local/staticpage/view.php?page=library_enterprise-firewall

https://training.fortinet.com/local/staticpage/view.php?page=library_public-cloud-security

Training Offering

For training SKUs, purchasing, and delivery options, visit:

https://training.fortinet.com/local/staticpage/view.php?page=purchasing_process

The Space

Virtualization and software-defined networks (SDN) are rapidly transforming datacenters into agile, innovative, software-defined, and cost-effective clouds: public and private.

Security is not guaranteed in these cloud environments and level of protection differs with various deployment models.

A virtual NGFW increases visibility and protection in these cloud environments regardless of variations in deployments.

Product Lineup

FortiGate-VM product supports various cloud types and providers:

- **Public clouds**: AWS, GCP, Azure, OCI, IBM, and AliCloud
- **Private clouds**: VMware, OpenStack/KVM, Microsoft Hyper-V, and Citrix Xen

Flex-VM adds flexibility on top of the FortiGate-VM and FortiWeb-VM offerings by providing a point consumption-based model for enterprise and MSSP.

Ordering Guide

BYOL: you can use bring your own license (BYOL) for FortiGate-VM in virtualized datacenter, private cloud, and public cloud deployments.

BYOL licensing types include term subscriptions (12/36/60 months) and Flex-VM subscriptions (12/36/60 months).

Cloud marketplace instance: customers can purchase FortiGate-VM PAYG instances from a cloud service provider marketplace, such as AWS, Azure, GCP, AliCloud, or OCI. These instances incur hourly charges and are payable monthly. Depending on the cloud provider, customers can also enroll into annual contracts with better hourly pricing.

Major Highlights

Fortinet has comprehensive security solutions for clouds covering the different network areas.

We have a market-leading TCO and scaling for user plane use cases thanks to our vSPU (vNP + DPDK). This is key to match exponential traffic growth.

The move to cloud and containers increases the attack surface as the internals of the compute nodes are now open.

In private networks, Fortinet has a single solution that can simultaneously secure the wired OT, the Wi-Fi, and 5G access.

We have tools to detect zero-day attacks and lateral movements as they occur.

Major Competitors

PAN: provides an enterprise ELA program, which only has a la carte. Lacks a program for MSSP. Daily points are usually 30% more expensive.

Juniper: SecGW and NGFW primarily. Sales tied to Ericsson. Worse performance than Fortinet.

Checkpoint: SecGW & NGFW primarily. Worse performance than Fortinet.

Copyright © 2026 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 SVP Legal and above, 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.

July 9, 2026 9:27 AM

CNGFW-OG-R24-20260709