

Public Cloud Licensing

<https://campus.barracuda.com/doc/78151871/>

CloudGen Firewalls deployed in Amazon AWS, Microsoft Azure, or Google Cloud public clouds are not restricted to a capacity. Performance is limited only by the performance and number of CPU cores of the virtual instance used. To use any service (Firewall, VPN, etc...), you must have an active Energize Updates subscription. In addition to the services and features included with the Energize Updates subscription, the BYOL licensing model allows you to optionally add Malware Protection, Advanced Threat Protection, Advanced Remote Access, and Premium Support.

Public Cloud License Sizes

Level	Capacity (Protected IPs)	Number of Supported CPU Cores
Level 1 (VFC1)	10	1
Level 2 (VFC2)	Unlimited*	1
Level 4 (VFC4)	Unlimited*	2
Level 6 (VFC6)	Unlimited*	4
Level 8 (VFC8)	Unlimited*	8

* Number of protected FW IPs, SSL VPN users, VPN users, and proxy users (AV + Web Filter)

There are two types of images available for CloudGen Firewalls in the public cloud:

- **Bring Your Own License (BYOL)** – Licenses purchased directly from Barracuda Networks. Only the instance cost is billed by the cloud vendor.
- **Pay As You Go (PAYG)** – Available in two types: hourly and volume based (metered). Volume based PAYG images are currently only available in AWS. The firewall license cost is included in the cloud vendor bill.

General License Information

Public Cloud Licenses include the following features:

CloudGen Firewall Feature	BYOL					PAYG Time-Based
	Level 1	Level 2	Level 4	Level 6	Level 8	-
-						
Firewall	Yes	Yes	Yes	Yes	Yes	Yes
Application Control	Yes	Yes	Yes	Yes	Yes	Yes

IPS	Yes	Yes	Yes	Yes	Yes	Yes
VPN (site-to-site and client-to-site)	Yes	Yes	Yes	Yes	Yes	Yes
SSL Inspection	Yes	Yes	Yes	Yes	Yes	Yes
WAN Compression	Yes	Yes	Yes	Yes	Yes	Yes
Network Access Control for VPN client-to-site connections	Yes	Yes	Yes	Yes	Yes	Yes
Energize Updates	Yes	Yes	Yes	Yes	Yes	Yes
Malware Protection (1)	Optional	Optional	Optional	Optional	Optional	No
Advanced Threat Protection (1)	Optional	Optional	Optional	Optional	Optional	No
Advanced Remote Access	Optional	Optional	Optional	Optional	Optional	Yes
Premium Support (2)	Optional	Optional	Optional	Optional	Optional	No

(1) Including FTP, mail, and web protocols

(2) Premium Support ensures that an organization's network is running at its peak performance by providing the highest level of 24x7 technical support for mission-critical environments. For more information please visit <https://www.barracuda.com/support/premium>.

Bring Your Own License (BYOL)

To license a BYOL image, you must purchase a license from Barracuda Networks. Upon activation, the license is bound to the unique ID generated by the public cloud provider. DNS resolution and access to the Barracuda licensing servers are required to be able to download the license after activation. In Azure, the unique ID is a 128-bit identifier generated for each new Azure VM. These IDs do not change if the VM is stopped or moved within the datacenter. It will change, however, if a snapshot is used to create a new instance. The **Host ID** column of the **CONTROL > Licensing** page shows the UUID of the BYOL license that must match with the UUID in the **HOST IDs** section. To be able to use the services on the virtual server, a valid Energize Updates subscription is required.

After the license expires, the firewall enters a 14-day grace period during which you have time to renew your licenses. When the grace periods ends, the behavior depends on if the firewall is managed by a Control Center or is a stand-alone. The configuration of stand-alone firewalls is read-only, but the services remain active. If the firewall is managed by a Control Center, all services are shut down.

Normal box operation

ACTIVE LICENSES
Enter new License Token
Edit Licenses

Name/Module	License	Expires	HostID	Status
lbase-bnvmfaz2	670155-BN-VFAzureLevel2-1438590274	02.10.2015 02:00:00	MAC-00:0d:3a:20:eb:c4	
└─ Compression				
└─ SPAM-Filter				
add-bnvmfaz2-a	670155-BN-VFAzureLevel2-AdvancedThrea...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	
add-bnvmfaz2-v	670155-BN-VFAzureLevel2-EnergizeUpdate...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	
add-bnvmfaz2-m	670155-BN-VFAzureLevel2-MalwareProtecti...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	

License Values

License: Barracuda
 License-Virtual: True
 License-Model: VFC2
 Capacity: 19998
 SSLVPNAC: licensed
 Demo Mode: no
 Export Mode: no
 CC managed: no
 Platform:
 Product: vf1000
 Configured Appliance: VF1000
 Detected Appliance: VM
 Serial Number: 670155
 Flash based: no
 Statistics: yes
 Licensed Tunnels: unlimited
 Compression: licensed
 Hardware Encryption: not-licensed
 Padlock Encryption: licensed
 VPN Shaping: licensed
 NAC: unlimited
 Protected IPs: unlimited

VERSION STATUS
HOST IDs

Module	Type	Version	Status	Comment
NGFirewall-OS	package	phionnet_release-6.1.0-112.noarch	clean_release_confirmed_@_Mon_03_Aug_2015_08:0...	GWAY-6.1.0-112
kemel	kemel	kemel-2.6.38.7-9ph6.1.0.01.x86_64		2.6.38.7-9ph6.1.0.01.x86_64
acpf	kemel-module	phionnet_acpf-6.1.0-60.x86_64		6.1.0.59
ktina	kemel-module	phionnet_ktina-6.1.0-57.x86_64		6.0.0.5
hotfix-Cloud-684-6.1.0-84839	hotfix	phionnet_hotfix_684-6.1.0-0.hf684.84839.noarch	installed	Cloud-684-6.1.0-84839
Firewall	server	phionnet_fw-6.1.0-195.hf684.84839.i386	Valid-Host-ID	-
VPN-Service	server	phionnet_vpn-6.1.0-88.i386	Valid-Host-ID	-

CPU-0010-0F81-0000-0000-0000-0000
 BBS-0000-0011-0941-1187-5120-2170
 MAC-00:0d:3a:20:1a:e8

Pay-As-You-Go License (PAYG)

PAYG licenses are available in two types: hourly and volume based. Volume-based (metered) licenses are currently available only in AWS. For the license to be generated, DNS resolution and access to the Barracuda licensing servers on first boot is required. PAYG licenses include the following services:

- Forwarding Firewall
- VPN service
- All services included in the Advanced Remote Access subscription
- Mail Gateway (no longer available in releases 8.x and higher)
- HTTP Proxy
- SSH Proxy (no longer available in releases 8.x and higher)
- DNS
- SNMP
- DHCP
- DHCP Relay
- FTP Gateway (no longer available in releases 8.x and higher)
- Dynamic Routing
- (If managed by a Control Center) Distributed Firewall

There are two types of PAYG licenses:

- **PAYG (hourly)** – The hourly instance price includes the firewall license. Some restrictions may apply. Both firewall license and instance cost are billed via the cloud vendor.

- **PAYG (volume based)** – The firewall license is determined by how much data is processed by the firewall. The hourly instance price is added to the cost. Both firewall license and instance cost are billed via the cloud vendor.

Automatic Licensing Creation During First Boot

The license is generated on first boot and bound to the unique ID generated by the public cloud provider. For the license to be generated, DNS resolution and access to the Barracuda licensing servers on first boot are required. The unique ID for the respective cloud vendor is used as the identifier for each new PAYG firewall. These IDs do not change if the VM is stopped or moved within the data center. They will change, however, if a snapshot is used to create a new instance, invalidating the license. The **Host ID** column of the **CONTROL > Licensing** page shows the UUID of the PAYG license that must match with the UUID in the **HOST IDs** section. If used in a high availability cluster, you must export the license of the secondary firewall and import it on the primary one before the HA sync.

Volume Based Billing

Firewalls using volume based or metered billing are billed based on the amount of traffic handled by the firewall. This includes all incoming, outbound, and forwarding traffic. In some scenarios such as VPN and HTTP Proxy, traffic is counted twice. For example, the VPN tunnel traffic is added to the traffic going through the VPN tunnel, resulting in every MB of VPN traffic being counted double.

To properly report the billing information to the AWS Marketplace, the instance must be deployed with an IAM role that includes access to the AWS Marketplace Metering API. Traffic is reported once per hour. If the reporting fails, the firewall license is set to grace mode. The firewall remains fully functional in grace mode. Every hour the firewall attempts to report the metering information. Data that could not be reported is added to the next hour's report. If reporting fails for 3 hours, the firewall switches to grace-expired mode. In grace-expired mode, the firewall configuration is locked, and only export-restricted ciphers are allowed. When reporting resumes, the firewall license is enabled again to resume normal operations.

The reported data volume is calculated by the firewall as follows:

- There is no data cap, or minimum usage.
- Any traffic matching an access rule with an allow policy (Pass, App Redirect, Map, Dst NAT) is counted, both in the Host and the Forwarding Firewall. Traffic such as VPN traffic which matches both host and forwarding access rules, is counted each time, effectively doubling the billed volume for this type of traffic.
- Traffic blocked by the firewall is not counted.
- Management traffic of the firewall, such as pattern, or definition updates, as well as update packages downloaded by the firewall is billed.

Switching to Other License Types

It is not possible to switch a volume based or hourly PAYG instance to BYOL licenses by entering the license token of the BYOL license. To switch from PAYG to BYOL licenses, the firewall instance must be redeployed.

Server
Network
Resources
Licenses
Box
Sessions

Refresh if active
Refresh (F5)
Disconnect

Normal box operation

ACTIVE LICENSES
Enter new License Token

Name/Module	License	Expires	HostID	Status
base-bn-faz16payg	BN-FAZ16PAYG-15FBFA81-1FF1-3...	never	UUID-15FBFA81-1FF1-3F44-B4FF-FF81...	Valid-Host-ID
└─ Compression				
└─ Distributed-Firewall				
└─ URL-Filter				
└─ DNS-Service				
└─ energize				
└─ Firewall				
└─ FTP-Gateway				
└─ App-Detection				
└─ Ips				
└─ OSPF-RIP-BGP-Service				
└─ Access-Control-Service				
└─ SPAM-Filter				
└─ SSH-Proxy				
└─ VPN-Service				

VERSION STATUS

Module	Type	Version	Status	Comment
NGFirewall-OS	package	phionnet_release-6.1.1-075.noarch	clean_release_confirmed_@_Mon_03_Aug_2015_02:31:07	GWAY-6.1.1-075
kernel	kernel	kernel-2.6.38-7-9ph6.1.0.01.x86_64		2.6.38-7-9ph6.1.0.01.x86_64
acpf	kernel-module	phionnet_acpf-6.1.1-29.x86_64		6.1.1.5
ktina	kernel-module	phionnet_ktina-6.1.0-84.x86_64		6.0.0.5
Firewall	server	phionnet_fw-6.1.1-93.i386	Valid-Host-ID	-
VPN-Service	server	phionnet_vpn-6.1.1-54.i386	Valid-Host-ID	-

License Values

License: Barracuda
 License-Virtual: True
 License-Model: VFC16PAYG
 Capacity: 9999
 SSLVPNAC: licensed
 Demo Mode: no
 Export Mode: no
 CC managed: yes
 Platform:
 Product: vfc16payg
 Configured Appliance: VFC16PAYG
 Detected Appliance: VM
 Serial Number:
 Flash based: no
 Statistics: yes
 Licensed Tunnels: unlimited
 Compression: licensed
 Hardware Encryption: not-licensed
 Padlock Encryption: licensed
 VPN Shaping: licensed
 NAC: not-licensed
 Protected IPs: unlimited

HOST IDs

CPU-0002-06D7-0000-0000-0000-0000
 BBS-0000-0010-9243-5035-1126-4711
UUID-15FBFA81-1FF1-3F44-B4FF-FF81...
 MAC-00:0d:3a:20:1a:e8

Figures

1. BYOL_Licensing_page01.png
2. PAYG_Licensing_page01.png

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