

## Public Cloud Licensing

<https://campus.barracuda.com/doc/99617367/>

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. For more information, see [Base Licensing and Subscriptions](#) in the CloudGen Firewall documentation.

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)** – The license is billed hourly. The firewall license cost is included in the cloud vendor bill.

### Bring Your Own License (BYOL)

CloudGen Firewalls models VFC1-VFC48 deployed in Amazon AWS, Microsoft Azure, or Google Compute public clouds are only restricted by total number of cores, without any further capacity limits. 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 on other firewall models, the public cloud SSL VPN and NAC is also included for public cloud firewall BYOL licenses. And also in addition to the services and features included with the Energize Updates subscription on other firewall models, the SSL VPN browser portal and the Barracuda Network Access Client Windows Personal Firewall and Windows Health Check (via Access Control Service) are also included for public cloud firewall BYOL licenses.

To license a BYOL image, you must purchase a license from Barracuda Networks. BYOL licenses include the following services:

- Firewall
- Application Control
- IPS
- VPN (site-to-site and client-to-site)
- SSL Inspection
- WAN Compression
- Network Access Control for VPN client-to-site connections
- Energize Updates

## Optional:

- Malware Protection (1)
- Advanced Threat Protection (1)
- Advanced Remote Access
- Premium Support (2)
- Firewall Insights

(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>.

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

Name/Module	License	Expires	HostID	Status
base-bnrfaz2	670155-BN-VFAzureLevel2-1438590274	02.10.2015 02:00:00	MAC-00:0d:3a:20:eb:c4	
Compression				
SPAM-Filter				
add-bnrfaz2-a	670155-BN-VFAzureLevel2-AdvancedThrea...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	
add-bnrfaz2-v	670155-BN-VFAzureLevel2-EnergizeUpdate...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	
add-bnrfaz2-m	670155-BN-VFAzureLevel2-MalwareProtecti...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	

Enter new License Token    Edit Licenses    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

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
kemef	kemef	kemef-2.6.38.7-9ph6.1.0.01x86_64		2.6.38.7-9ph6.1.0.01x86_64
acpf	kemef-module	phionnet_acpf-6.1.0-60x86_64		6.1.0.59
ktina	kemef-module	phionnet_ktina-6.1.0-57x86_64		6.0.0.5
hotfix-Cloud-684-6.1.0-84839	hotfix	phionnet_hotfix_684-6.1.0-0hf684.84839.noarch	installed	Cloud-684-6.1.0-84839
Firewall	server	phionnet_fw-6.1.0-195hf684.84839.i386	Valid-Host-ID	-
VPN-Service	server	phionnet_vpn-6.1.0-88.i386	Valid-Host-ID	-

HOST IDs  
 CPU-0010-0F81-0000-0000-0000-0000  
 BB5-0000-0011-0941-1187-5120-2170  
 MAC-00:0d:3a:20:1a:e8

**Public Cloud License Sizes - Bring Your Own License (BYOL)**

Model	Recommended sizing	Licensed number of CPU cores
VFC1	up to 50	1
VFC2	up to 300	2
VFC4	up to 2000	4
VFC8	up to 7000	8
VFC16	up to 10000	16
VFC48	10000+	48

**Pay-As-You-Go License (PAYG)**

PAYG licenses are billed 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. 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

**Public Cloud License Sizes - Pay As You Go (PAYG)**

Level	Capacity (Protected IPs)	Number of Supported CPU Cores
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)

## 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.

## Switching to Other License Types

It is not possible to switch a 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-brn-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				

License Values  
 License: Barracuda  
 License-Virtual: True  
 License-Model: VFC16PAYG  
 Capacity: 9999  
 SSLVPN: 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

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
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-6.1.1-29.x86_64		6.1.1.5
ktina	kemel-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	-

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

For information on how to install and activate licenses on Barracuda CloudGen Firewall models deployed in the public cloud, see the [Licensing](#) section in the CloudGen Firewall documentation.

## Figures

1. BYOL\_Licensing\_page01.png
2. PAYG\_Licensing\_page01.png

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