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## Azure Licensing

<https://campus.barracuda.com/doc/45028317/>

By default, hardware and virtual NG Firewall licenses are bound to the MAC address of the first network interface. In Azure, MAC addresses may change either when the VM is moved to a different host due to maintenance work, or when the VM is stopped and, upon restart, is assigned a new host with a different MAC address. This causes problems for the traditional licensing approach.

As a solution, Microsoft assigns a unique 128bit identifier called Azure Unique ID to each new Azure VM. This ID does not change if the VM is stopped or moved to a different host. It will change, however, if a snapshot is used to create a new instance. Both the PAYG and BYOL images bind their licenses to the Azure ID.

### In this article

## Bring Your Own License Considerations

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To license a BYOL image, you must purchase a license from Barracuda Networks that matches the Azure pricing tier. Upon activation, the license is bound to the Azure Unique ID and the MAC address at the time of licensing. This MAC address is stored internally. If the physical MAC address of the VM changes, the stored internal MAC address is used and the license validates as long as the Azure Unique ID does not change. To see the UUID and MAC address the license is bound to, go to the **CONTROL > Licensing** page. The MAC addresses in the **HostID** column may differ from the MAC in the **Host IDs** section if the underlying physical MAC address of the host has changed.

Normal box operation

ACTIVE LICENSES

Name/Module	License	Expires	HostID	Status
base-bnvfaz2	670155-BN-VFAzureLevel2-1438590274	02.10.2015 02:00:00	MAC-00:0d:3a:20:eb:c4	
└─ Compression				
└─ SPAM-Filter				
add-bnvfaz2-a	670155-BN-VFAzureLevel2-AdvancedThrea...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	
add-bnvfaz2-v	670155-BN-VFAzureLevel2-EnergizeUpdate...	03.10.2015 03:00:00	MAC-00:0d:3a:20:eb:c4	
add-bnvfaz2-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	HOST IDs
NGFirewall-OS	package	phionnet_release-6.1.0-112.noarch	clean_release_confirmed_@_Mon_03_Aug_2015_08:0...	GWAY-6.1.0-112	CPU-0010-0F81-0000-0000-0000-0000 BBS-0000-0011-0941-1187-5120-2170 MAC-00:0d:3a:20:1a:e8
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	-	

## Hourly or Pay-As-You-Go License Considerations

The license is generated on first boot and bound to the Azure Unique ID of the Azure VM. License cannot be regenerated if the Azure ID changes. Once the PAYG license has been generated, it can only be used on this Instance. It is not possible to use the same PAYG license on a new PAYG image because the Azure IDs will not match. All licenses are included in the base 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:

## Normal box operation

### ACTIVE LICENSES

Enter new License Token

### License Values

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				

License: Barracuda  
 License-Virtual: True  
 License-Model: VFC16PAYG  
 Capacity: 9999  
 SSLVPN/NAC: 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

### HOST IDs

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	-

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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