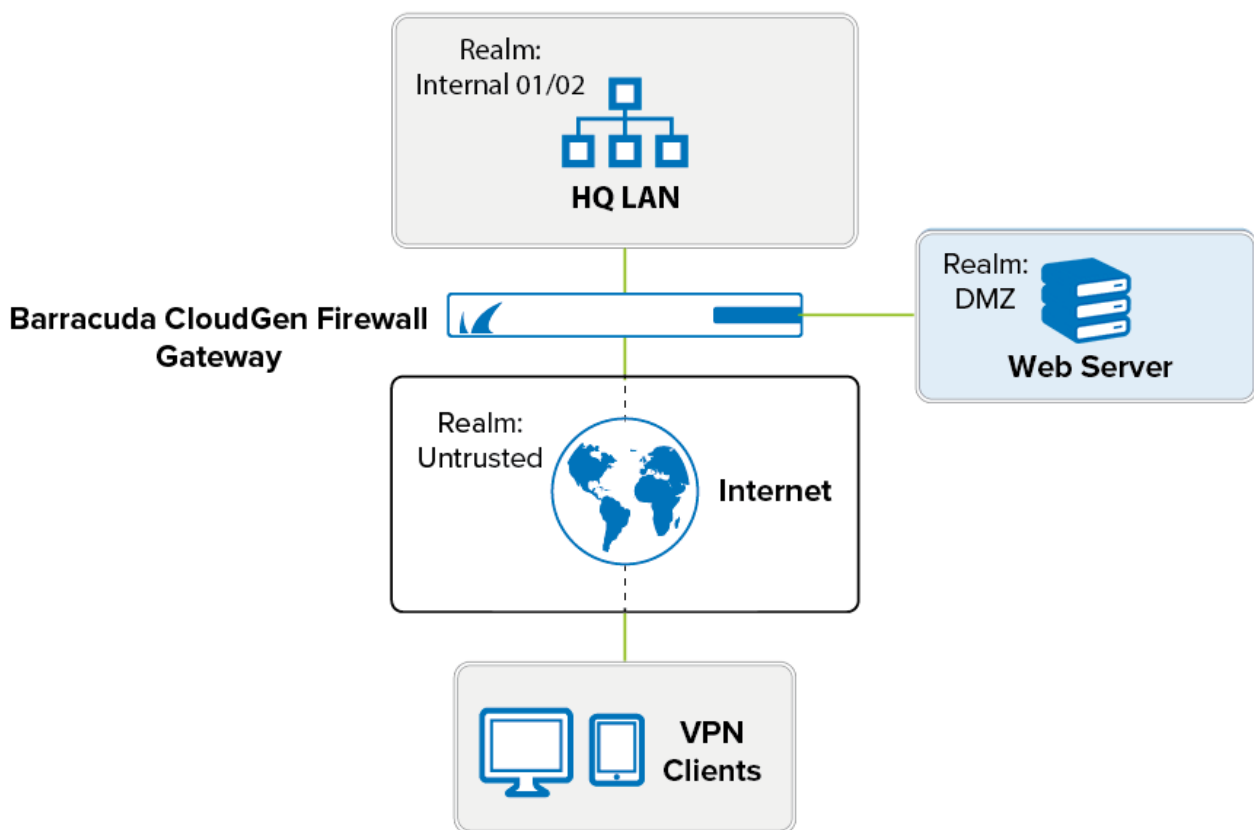


Protected IP Count Policies

<https://campus.barracuda.com/doc/17753/>

Barracuda CloudGen Firewall VF and SF units are licensed based on the number of IP addresses being protected by the gateway. For more information, see [CloudGen Firewall Licensing](#). This article explains the algorithms that are used to count the protected IP addresses. It also provides instructions on how to specify counting policies when creating and configuring firewall rules.

Protected and Unprotected Realms - General Overview



Viewing the Number of Protected IPs

To view the number of protected IP addresses for a Barracuda CloudGen Firewall, go to the **FIREWALL > Dynamic** page and click the **Protected IPs** tab. The table on this page provides information on the number of active licensed IP addresses. For more information on the **FIREWALL > Dynamic** page, see [Dynamic Page](#).

Counting Policies

The following sections describe how IP addresses are counted for each type of connection.

General Case

Generally, the protected IP address counted is either the source or destination address, based on a comparison of the classification of incoming and outgoing interfaces. The valid preference is the following:

1. **Internal (LAN)**
2. **DMZ**
3. **Unspecified**
4. **External**

For example, if the realm weight is the same from Internal01 to Internal02, the source IP address is counted. The same applies, vice versa, from Internal02 to Internal01.

Classification of Incoming and Outgoing Interfaces

Incoming	Outgoing			
	Trusted / Internal01/02	DMZ	Unclassified	Untrusted
Trusted / Internal01/02	Src	Src	Src	Src
DMZ	Dst	Src	Src	Src
Unclassified	Dst	Dst	Src	Src
Untrusted	Dst	Dst	Dst	Src

On the **Network** page, you can specify the realm category of an IP address:

1. Go to **CONFIGURATION > Configuration Tree > Box > Network**.
2. Click **Lock**.
3. In the **IP Address Configuration** table, double-click the IP address entry and select the realm weight from the **Trust Level** list.

For more information on configuring IP addresses, see [Network](#).

Uncounted IP Addresses

The following IP addresses are not taken into account:

- Source and destination are site-to-site tunnel addresses (VPN relaying - [VPN Tunnels in Star-](#)

[Shaped Topologies](#)).

- Destination is a broadcast or multicast address.
- Firewall rule results in a **Block** or **Deny** action.
- Customers with legacy phion SF licenses, VPN users, and HTTP Proxy users are also not counted.

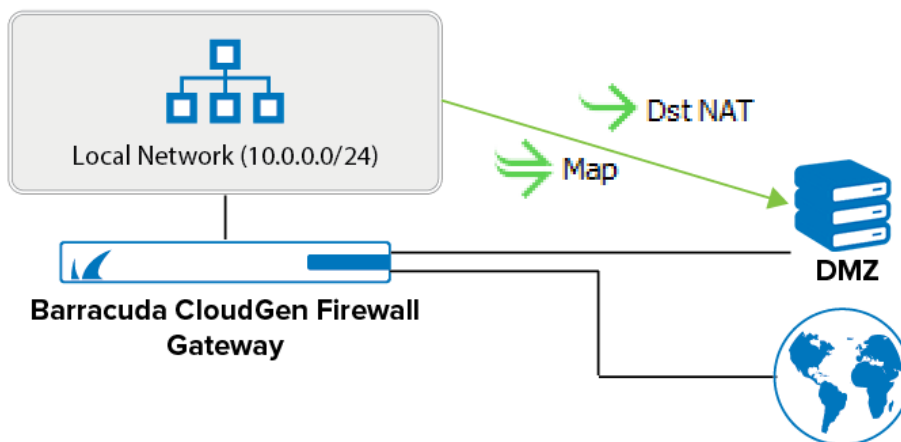
Any communication directed to the services running on the Barracuda CloudGen Firewall gateway itself is not counted:

- Mail Gateway
- DNS Server/Forwarder
- DHCP Server

Redirected Destination

If a redirection of the destination IP address is performed by the firewall rule ([Dst NAT](#) or [Map](#)), the translated destination IP address is counted as protected.

Policy for Redirected Destination



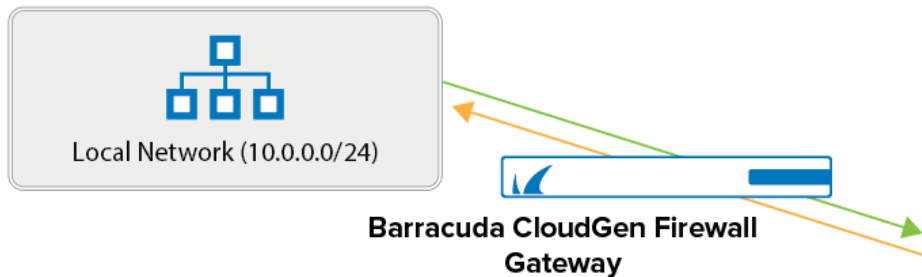
Site-to-Site VPN

The counting preference of protected IP addresses for Site-to-Site VPN tunnels is specified as follows:

- Source is counted as a protected IP address if the destination is routed via the tunnel.
- Destination is counted as a protected IP address if the source originates from the tunnel.

If both options apply, neither source nor destination is counted. For more information on site-to-site tunnels, see [Site-to-Site VPN](#).

Example Policy for Site-to-Site Tunnels



Client-to-Site VPN

Each client connected to a Client-to-Site VPN counts as one protected IP address.

SSL VPN

The number of protected IP addresses is taken from the client database and from configured resources such as the DMZ network. For more information, see [SSL VPN](#). Counting is specified as follows:

- Source is counted as a protected IP address if the destination is routed via the tunnel.
- Destination is counted as a protected IP address if the source originates from the tunnel.


If both options apply, neither source nor destination is counted.


Specifying Counting Policies

When creating or configuring firewall rules, you can also specify IP address counting policies in the [Advanced Access Rule Settings](#).


1. In the left navigation pane of the firewall rule editor window, click **Advanced** from the **Views** menu.
2. In the **Miscellaneous** section, select one of the following options from the **Policy** list:
 - **Count Source IP** - Source is chosen as the protected IP address if the rule explicitly requests it.
 - **Count Destination IP** - Destination is chosen as the protected IP address if the rule explicitly requests it.

The source and destination are interchanged if the rule matches on reverse.

 Edit Rule: NewRule [Advanced] ✕

Views 

Rule
Advanced
ICMP Handling

Object Viewer 

☒ Object Viewer

Counting / Eventing / Audit Trail

Firewall History Entry	Yes
Log File and FW Audit Entry	Yes
Transparent Failover State Sync	Yes
Statistics Entry	Yes
Log Session State Changed	No
Own Log File	No
Service Statistics	No
Eventing	None
Application Log Policy	Default
Generate event when rule is not used for [minutes]	0

Miscellaneous

Inline Authentication for HTTP and HTTPS	No Inline Authentication
IP Counting Policy	Count Destination IP
Time Restriction	Default Policy
Clear DF Bit	Count Source IP
Set TOS Value	Count Destination IP
Prefer Routing over Bridging	0 (TOS unchanged)
Color	No
Block Page for TCP 80	RGB(0,0,0)
Use X-Forwarded-for Application Ruleset Evaluation	None; SYN Block
Transparent Redirect	No

Dynamic Interface Handling

Source Interface	Matching
Continue on Source Interface Mismatch	No
Reverse Interface (Bi-directional)	Matching
Interface Checks After Session Creation	Enabled

OK Cancel

Figures

1. protected_ips_01.png
2. protected_ips_02.png
3. protected_ips_03.png
4. protected_ips_rule.png

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