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## Network Address Translation (NAT)

<https://campus.barracuda.com/doc/9011745/>

Network Address Translation (NAT) maps outbound IP addresses to prevent exposing internal IP addresses.

NAT allows you to:

- Conceal the internal IP address from external exposure or access.
- Reduce the demand for registered IP addresses because internal IP addresses are not revealed to the outside world.

Incoming IP addresses can be translated to correct internal IP addresses.

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## Source Network Address Translation (SNAT)

Source Network Address Translation (SNAT) maps internal IP (private IP) addresses to an external IP (public IP) address. SNAT re-writes the IP address of the computer that originated the packet. SNAT is composed of two steps:

- The process of translating an internal IP address into an external IP address;
- The process of undoing the translation for returning traffic, that is, rewriting the IP address of the computer that originated the packet.

On the **NETWORK > NAT** page, you can define an SNAT rule to allow Real Servers to forward traffic to the Internet.

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## Create a Source NAT Rule

To create a source NAT rule, complete the following steps:

1. Log into the Barracuda Load Balancer ADC as the administrator, and go to the **NETWORK > NAT** page.
2. In the **ADD NAT RULE** section, enter values for the following:
  - **Pre SNAT Source** - Enter the internal IP address or source network that is to be translated.
  - **Pre SNAT Source Mask** - Enter the subnet for the entered network; you can use a 32-bit netmask if required for single IP NAT.
  - **Protocol** - Specify **TCP** or **UDP**.
  - **Destination Port**: Either enter an individual port number (for example, 80) or a range of port

numbers (for example, 100-200). The default value of 1-65535 allows all ports.

- **Post SNAT Source:** Enter the source IP address after the translation. If you specified a range in the **Pre SNAT Source Mask**, this is the first IP address in the translated range.

There must already be a virtual interface configured on this system with the IP address (and range, if applicable) specified in **Post SNAT Source**. If not, the NAT rule will not be added and you will get an error message.

- **Outgoing Interface:** The network connection that the outgoing traffic passes through.

3. Click **Save**.

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