How to Configure a Transparent Redirect

https://campus.barracuda.com/doc/100371634/

> The following instructions apply to any appliance processing traffic that requires the original source and destination IP addresses to remain unmodified.

To transparently forward connections to a processing appliance located in a DMZ behind a CloudGen Firewall, configure the Dst NAT access rule to not rewrite the source and destination addresses of the connection. Using the original source and destination IP addresses allows the appliance to apply meaningful policies as if it were directly connected to the client.
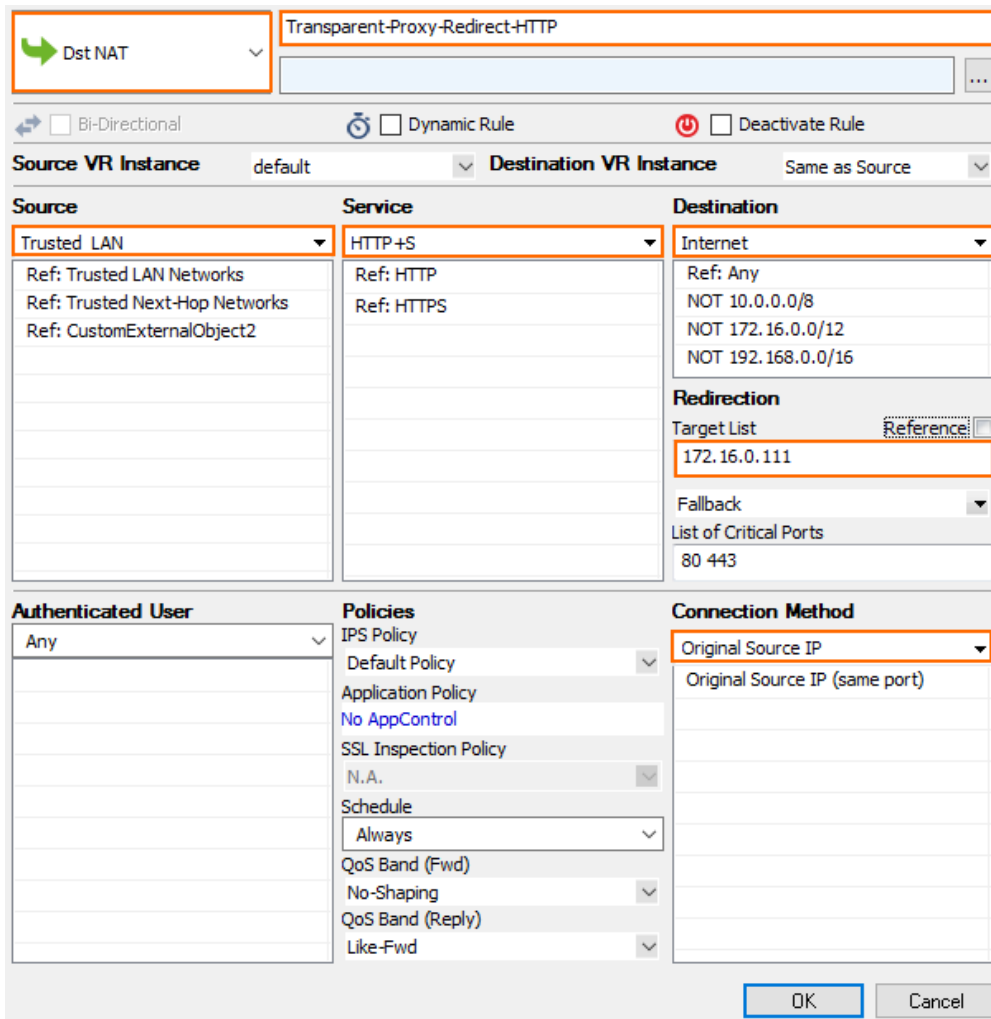

Before You Begin

- Verify that the CloudGen Firewall and the proxy are directly connected to the same subnet (within the same ARP domain).
- (optional) Enable SSL Inspection in the firewall. For more information, see SSL Inspection in the Firewall.
- (optional) Configure the processing appliance to use transparent SSL Inspection.

Step 1. Create a Transparent Redirect Dst NAT Access Rule

Create the Dst NAT access rule to forward all traffic to the proxy.

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.
2. Click **Lock**.
3. Create an access rule to forward selected traffic coming from your clients:
   - **Action** – Select **Dst NAT**.

- **Source** – Select **Trusted Networks**. Or, you can enter the network the client using the appliance is in.
- **Destination** – Select **Internet**.
- **Service** – Select **HTTP+S**.
- **Target List** – Enter the IP address without a port. You can use multiple proxies.
  E.g.: `172.16.0.10`

  > Do not use network objects containing hostnames (DNS objects). The firewall does not redirect traffic to a hostname or FQDN.

- **Fallback/Cycle** – If you have defined multiple target IP addresses, select how the firewall distributes the traffic between the IP addresses.
  - **Fallback** – The connection is redirected to the first available IP address in the list.
  - **Cycle** – New incoming TCP connections are distributed evenly over the available IP addresses in the list on a per-source IP address basis. The same redirection target is used for all subsequent connections of the source IP address. UDP connections are redirected to the first IP address and not cycled.
- **List of Critical Ports** – Enter a space-delimited list of ports used.
- **Connection Method** – Select **Original Source IP**.
- **(optional) Application Policy** – Enable **Application Control** and **SSL Inspection** to gain deeper insight on the traffic redirected to the appliance.
  - If configured, select a policy from the **SSL Inspection Policy** drop-down list. For more information, see [SSL Inspection in the Firewall](#).

4. In the left menu, click **Advanced**.
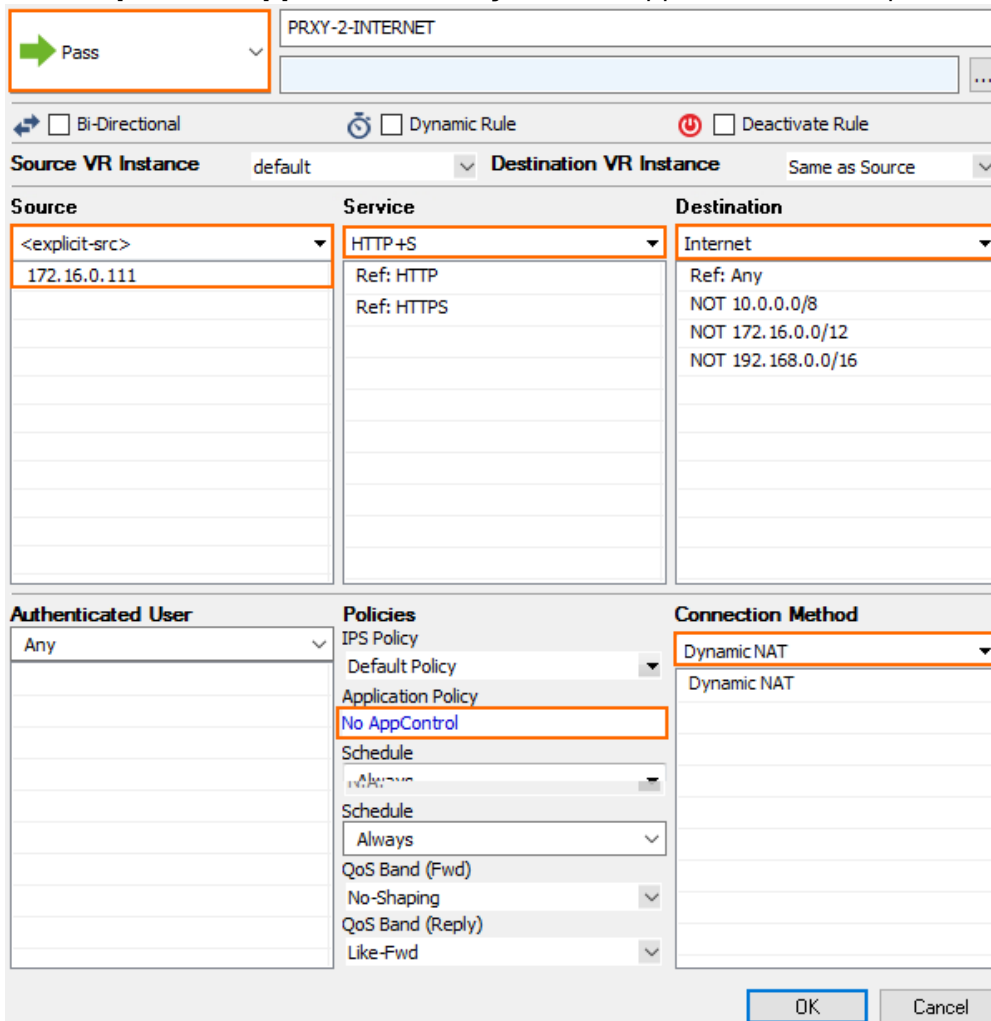5. In the **Miscellaneous** section, set **Transparent Redirect** to **Enable**.

6. Click **OK**.
7. Drag and drop the access rule so that it is the first rule that matches the traffic that you want it to forward. Ensure that the rule is located *above* the BLOCKALL rule; rules located below the BLOCKALL rule are never executed.

    Make sure to place the rule above all other HTTP/HTTPS rules that match this source and destination.

8. Click **Send Changes** and **Activate**.

Step 2. Create a Pass Access Rule for the Proxy to Access the Internet

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.
2. Click **Lock**.
3. Create a PASS rule to allow the HTTP proxy to access the Internet:
   - **Action** – Select **Pass**.
   - **Source** – Enter the IP address of the HTTP Proxy.
   - **Destination** – Select **Internet**.
   - **Service** – Select **HTTP+S**.
   - **Connection Method** – Select **Dynamic NAT**.
   - **(optional) Application Policy** – Select Application Control policies.
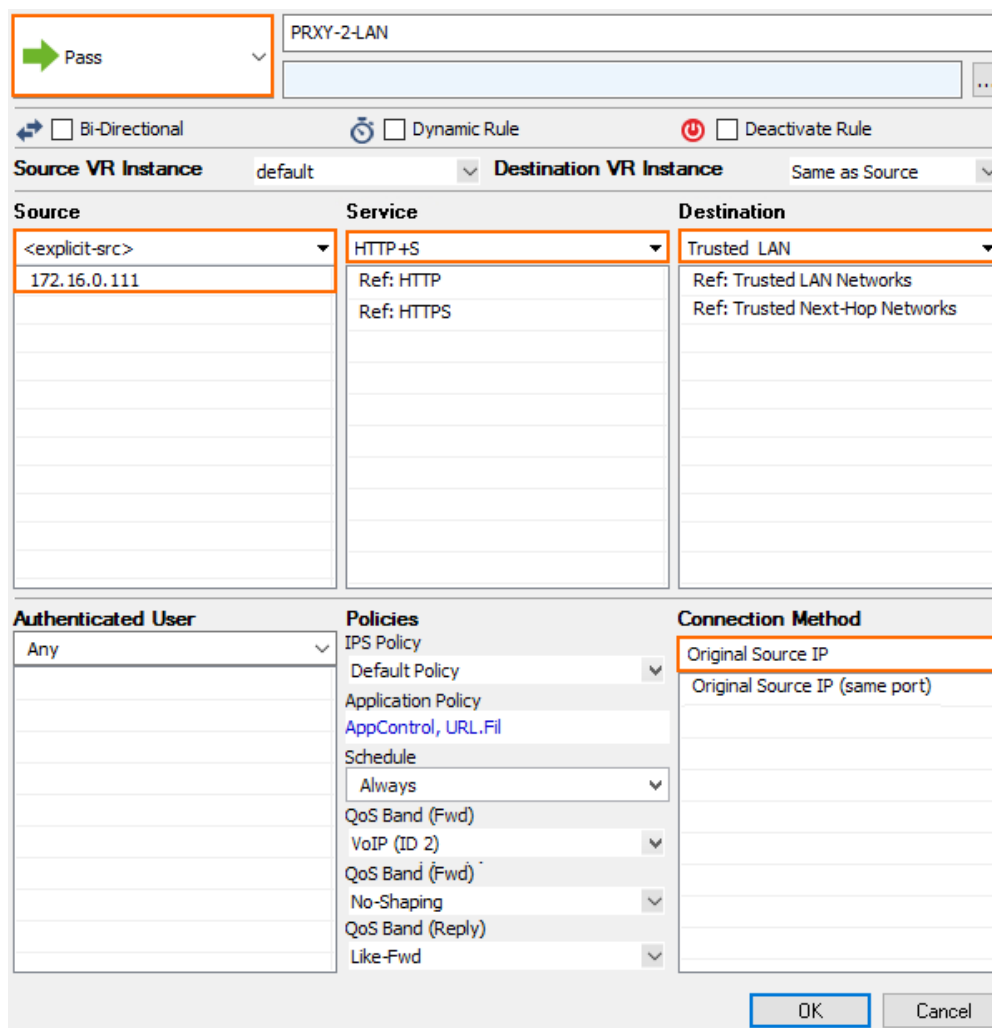

4. In the left menu, click **Advanced**.
5. In the **Dynamic Interface Handling** section, set **Source Interface** to **Any**.
6. Click **OK**.

7. Click **Send Changes** and **Activate**.

Step 3. Create a Pass Access Rule for the HTTP Proxy to Access the Client Network

To allow the HTTP proxy to access the client, you must create a PASS rule:

- **Action** – Select **Pass**.
- **Source** – Enter the IP address of the appliance.
- **Destination** – Select **Trusted Networks**.
- **Service** – Select **HTTP+S**.
- **Connection Method** – Select **Original Source IP**.
- **(optional) Application Policy** – Select Application Control policies.

Step 4. Configure the Appliance

In order to successfully send the connection from the proxy to the Internet, you must configure the processing device:

- Route to the Internet using the firewall as the gateway.
- Route to the internal client network using the firewall as the gateway.
- Traffic must use the IP address of the appliance as the source IP address for outgoing connections.
- The appliance must accept the HTTP and HTTPS connections on the same port as the firewall.

Step 5. Import the Appliance's Root Certificate

If you are running SSL Inspection on the CloudGen Firewall, you must add the root certificate used for SSL Inspection to the **Trusted Root Certificates**.

1. Download the root certificate on the appliance.
2. On the CloudGen Firewall, go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Security Policy Settings**.
3. Click **Lock**.
4. Click **+** in the **Trusted Root Certificates** list and select **Import from PEM File**.
5. Select the file containing the root certificate you previously exported from the appliance.
6. Enter a **Name**.
7. Click **OK**.
8. Click **Send Changes** and **Activate**.

The certificate is now listed in the **Trusted Root Certificates** list.

Next Steps

Import the root certificates from the CloudGen Firewall and the processing appliance on the clients to avoid SSL certificate errors.

Figures

1. transparent_redir_rules-01.png
2. transparent_redirect_00.png
3. transparent_redirect_01.png
4. transparent_redirect_02.png
5. transparent_redirect_03.png