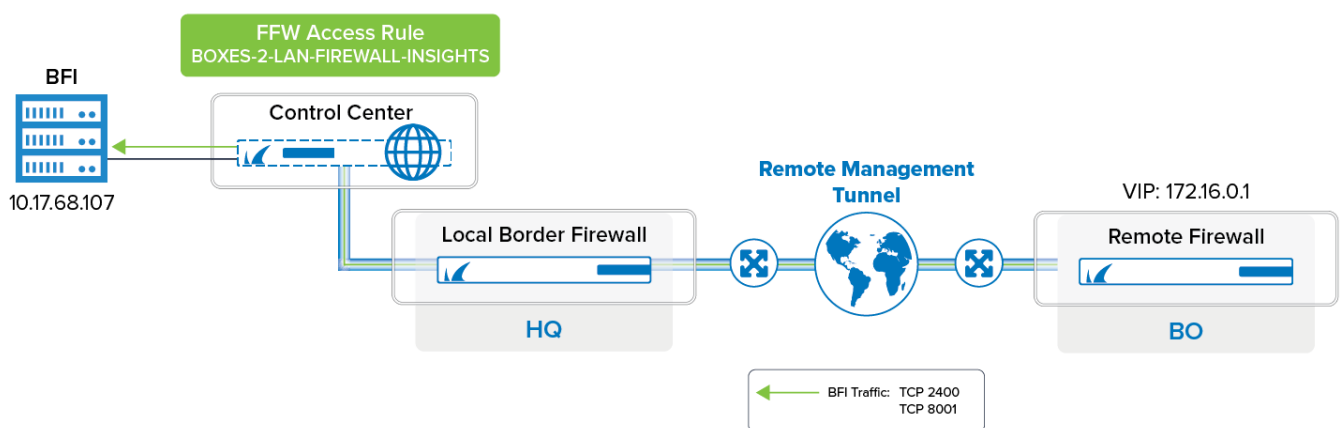


How to Stream Data to Firewall Insights via a Remote Management Tunnel

<https://campus.barracuda.com/doc/96026567/>

In certain cases it can be necessary to stream data from a remote firewall to a Barracuda Firewall Insights device that is located behind a local border firewall. In the following setup, streaming data is sent from a remote firewall through the remote management tunnel over the Internet and through the local border firewall to the Control Center, which forwards the traffic to Firewall Insights.



Before You Begin

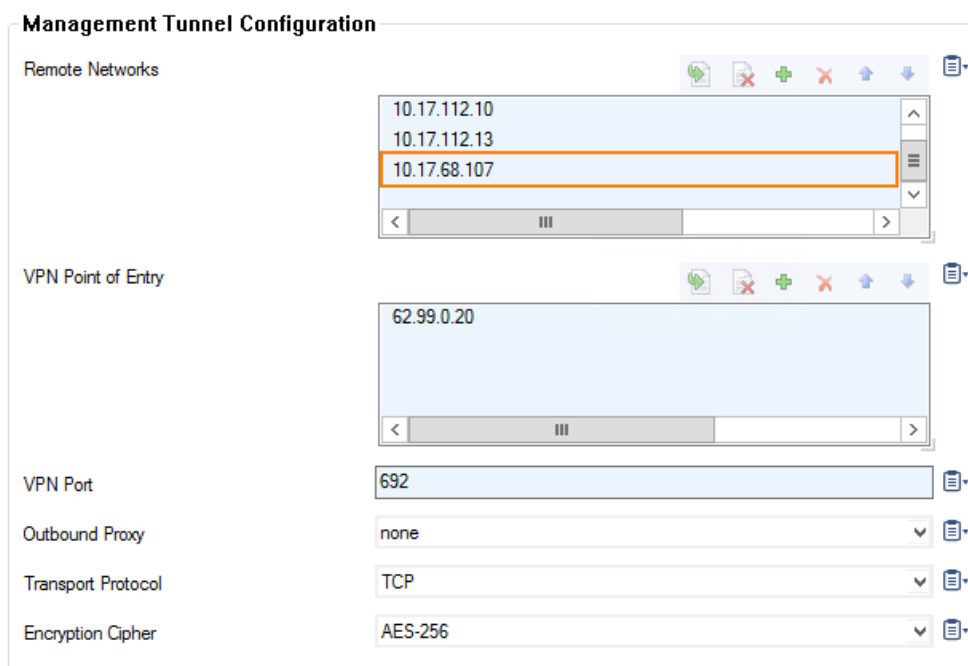
- You must complete all necessary steps for Firewall Insights integration. For more information, see [Barracuda Firewall Insights Integration](#).
- A remote management tunnel must be established. For more information, see [How to Configure a Remote Management Tunnel for a CloudGen Firewall](#).
- If you deploy a Control Center with a default configuration set from firmware version 8.0.1, the service object 'FIREWALL-INSIGHTS', the network object 'Firewall Insights' and the forwarding access rule 'BOXES-2-LAN-FIREWALL-INSIGHTS' are already preconfigured. You can therefore skip those steps.
- If you migrate a Control Center to firmware version 8.0.1, these items are not preconfigured, and you must create them according to the following description.

The Remote Firewall, the Border Firewall and the Control Center must have installed firmware version 8.0.1 or higher.

Step 1. On the Remote Firewall, Add Firewall Insights to the Remote Network Addresses for Tunnels

You must add Firewall Insights to the remote network addresses list as a target in order to forward traffic through the management tunnel.

1. Go to **CONFIGURATION > Configuration Tree > Multi Range > your range > your cluster > Boxes > your remote box > Network**.
2. In the left navigation bar, click **Management Access**.
3. Click **Lock**.
4. In the **Remote Management Tunnel** section, click **Edit...** next to **Tunnel Details**.
5. The **Tunnel Details** window is displayed.
6. Click **+** in the **Remote Networks** section.
7. Enter the IP address of Firewall Insights to the list, e.g., 10.17.68.107



Management Tunnel Configuration

Remote Networks

- 10.17.112.10
- 10.17.112.13
- 10.17.68.107

VPN Point of Entry

- 62.99.0.20

VPN Port

- 692

Outbound Proxy

- none

Transport Protocol

- TCP

Encryption Cipher

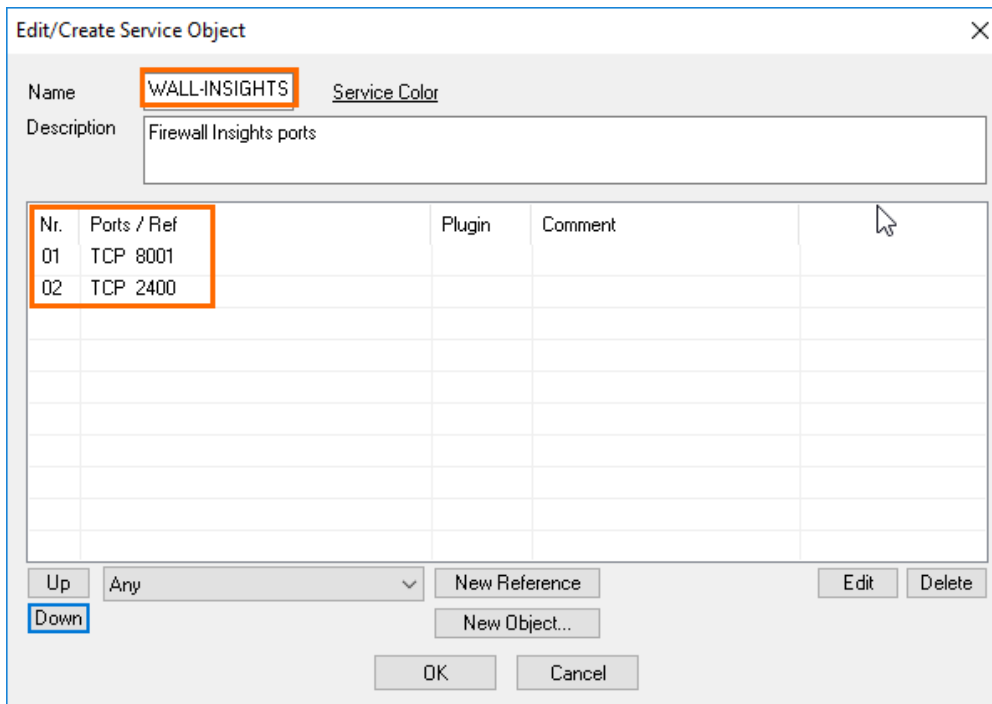
- AES-256

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

Step 2. (Optional, only if not preconfigured) On the Control Center, Create Service Object Firewall-Insights

1. Log into your Control Center on box level.
2. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > CCFW (Firewall) > Forwarding Rules**

3. In the left navigation bar, click **Services**
4. Click **Lock**.
5. In the right section where the services are displayed, right-click and select **New**.
6. The **Edit/Create Service Object** window is displayed.
7. Enter the **Name** for the service object, e.g., FIREWALL - INSIGHTS.
8. Enter Firewall Insights ports for **Description**.
9. Click **New Object...**
10. The Service Entry Parameters window is displayed.
11. Verify that 006 TCP is selected for **IP Protocol**.
12. For **Port Range**, enter 2400.
13. Click **OK**.
14. Click **New Object...**
15. The Service Entry Parameters window is displayed.
16. Verify that 006 TCP is selected for **IP Protocol**.
17. For **Port Range**, enter 8001.
18. Click **OK**.



Edit/Create Service Object

Name: **WALL-INSIGHTS** Service Color: Service Color

Description: Firewall Insights ports

Nr.	Ports / Ref	Plugin	Comment
01	TCP 8001		
02	TCP 2400		

Up Any New Reference Edit Delete

Down New Object...

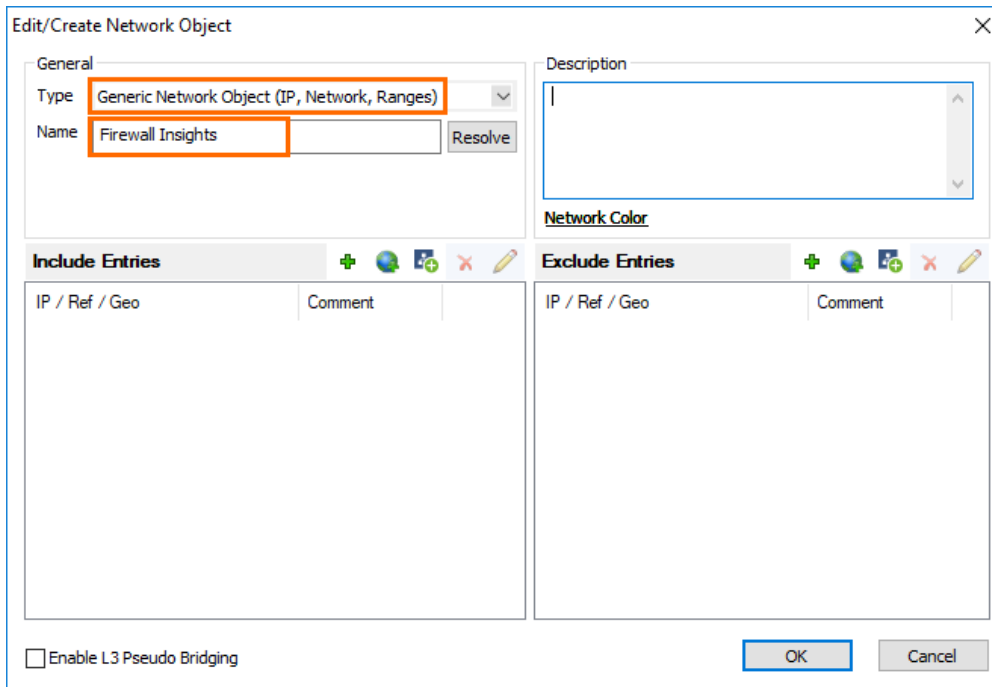
OK Cancel

19. Click **Send Changes** and **Activate**.

Step 3. (Optional, only if not preconfigured) On the Control Center, Create Network Object Firewall Insights

1. Log into your Control Center on box level.
2. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > CCFW (Firewall) > Forwarding Rules**

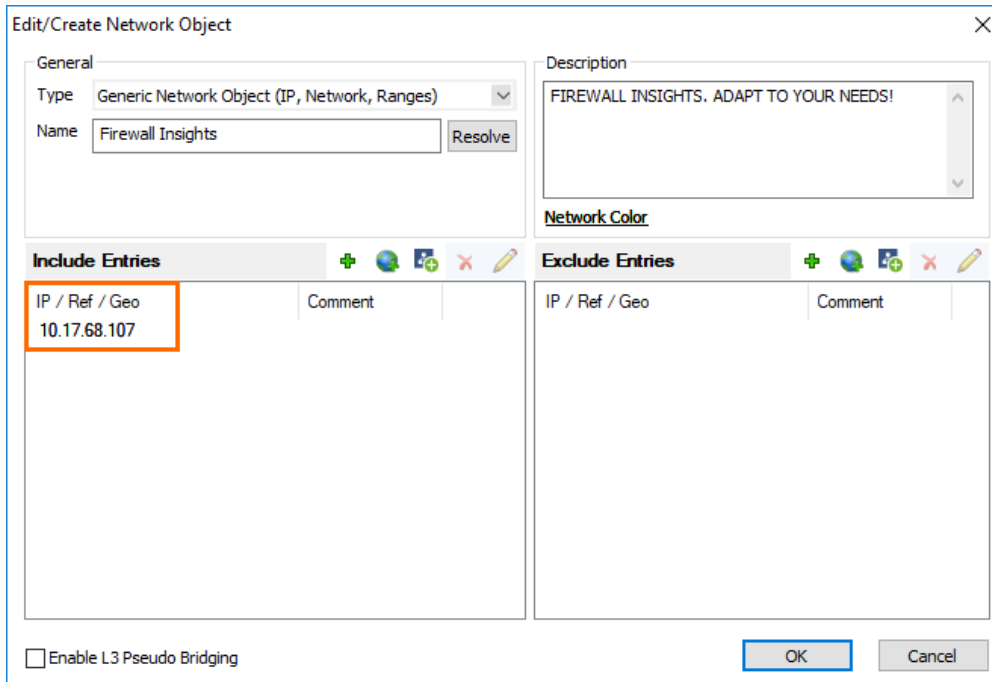
3. In the left navigation bar, click **Networks**.
4. Click **Lock**.
5. In the right section where the networks are displayed, right-click and select **New**.
6. The **Edit/Create Network Object** window is displayed.
7. For **Type** select **Generic Network Object (IP, Network, Ranges)**.
8. Enter Firewall Insights for the name.
9. Click **OK**.



10. Click **Send Changes** and **Activate**.

Step 4. On the Control Center, Enter the IP Address of Firewall Insights in the Network Object Firewall Insights

1. Log into your Control Center on box level.
2. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > CCFW (Firewall) > Forwarding Rules**
3. In the left navigation bar, click **Networks**.
4. Click **Lock**.
5. In the right section where the networks are displayed, double-click **Firewall Insights**.
6. The **Edit/Create Network Object** window is displayed.
7. If the IP address 0.0.0.0 is entered, click the **x** to remove it.
8. Click **+** to enter the IP address of your Firewall Insights device, e.g., 10.17.68.107.
9. Click **Insert and Close**.
10. Click **OK**.



Edit/Create Network Object

General

Type: Generic Network Object (IP, Network, Ranges)

Name: Firewall Insights Resolve

Description: FIREWALL INSIGHTS. ADAPT TO YOUR NEEDS!

Network Color: Blue

Include Entries

IP / Ref / Geo	Comment
10.17.68.107	

Exclude Entries

IP / Ref / Geo	Comment
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☐ Enable L3 Pseudo Bridging

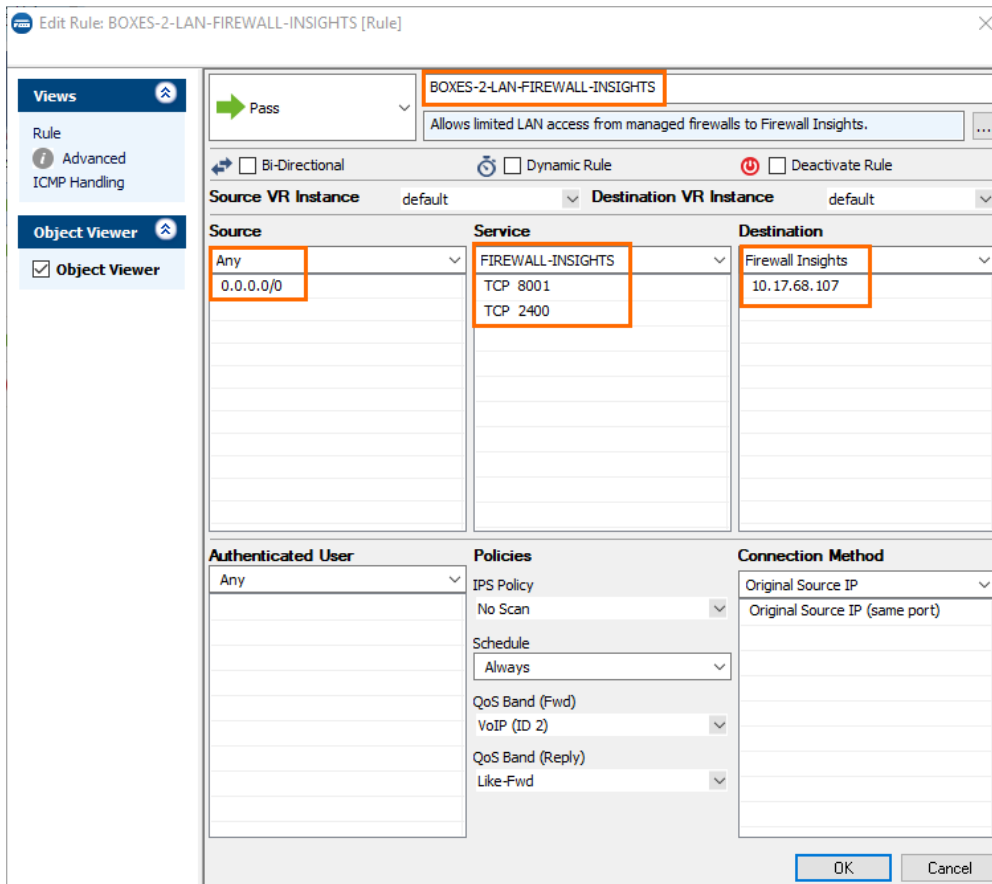
OK Cancel

11. Click **Send Changes** and **Activate**.

Step 5. (Optional, only if not preconfigured) On the Control Center, Allow Firewall Insights Traffic to Firewall Insights by an Access Rule

To forward Firewall Insights traffic from the Control Center to Firewall Insights, you must create the following access rule:

1. Log into your Control Center on box level.
2. Go to **CONFIGURATION > Configuration Tree > Multi Range > Assigned Services > CCFW (Firewall) > Forwarding Rules**
3. Click **Lock**.
4. Click **+**.
5. Enter the following values for the rule:
 - **Connection Type** - Pass.
 - **Name** - BOXES-2-LAN-FIREWALL-INSIGHTS.
 - **Source** - Select any from the drop-down menu.
 - **Service** - Select FIREWALL-INSIGHTS from the drop-down menu.
 - **Destination** - Select Firewall-Insights from the drop-down menu.
 - **Connection Method** - Select Original Source IP from the drop-down menu.
6. Click **OK**.



Edit Rule: BOXES-2-LAN-FIREWALL-INSIGHTS [Rule]

Views

- Rule
- Advanced
- ICMP Handling

Object Viewer

- ☒ Object Viewer

Action: Pass

Description: Allows limited LAN access from managed firewalls to Firewall Insights.

Options: ☐ Bi-Directional ☐ Dynamic Rule ☐ Deactivate Rule

Source VR Instance: default **Destination VR Instance:** default

Source	Service	Destination
Any	FIREWALL-INSIGHTS	Firewall Insights
0.0.0.0/0	TCP 8001	10.17.68.107
	TCP 2400	

Authenticated User: Any

Policies:

- IPS Policy: No Scan
- Schedule: Always
- QoS Band (Fwd): VoIP (ID 2)
- QoS Band (Reply): Like-Fwd

Connection Method: Original Source IP (same port)

Buttons: OK Cancel

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

The remote firewall can now stream data to Firewall Insights via the remote management tunnel.

Figures

1. bfi_remote.png
2. brs_add_brs_to_rmts.png
3. bfi_service_ports.png
4. bfi_network.png
5. bfi_network_ip.png
6. bfi_cc_fw_rule.png

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