

How to Connect the Barracuda CloudGen Firewall to Teridion via GRE Tunnel

<https://campus.barracuda.com/doc/99123636/>

Teridion Connect provides numerous PoPs (Points of Presence) across the globe, including China, to allow access to their network backbone. The Barracuda CloudGen Firewall can connect to the TCR (Teridion Cloud Router) deployed in one of the PoPs by using IPsec or GRE tunneling to leverage their backbone to improve the connectivity. In addition, BGP can be used as a dynamic routing protocol to learn and propagate networks. For more information, visit the [Teridion website](#).

Connect a Barracuda CloudGen Firewall to the Teridion Network via GRE Tunnel

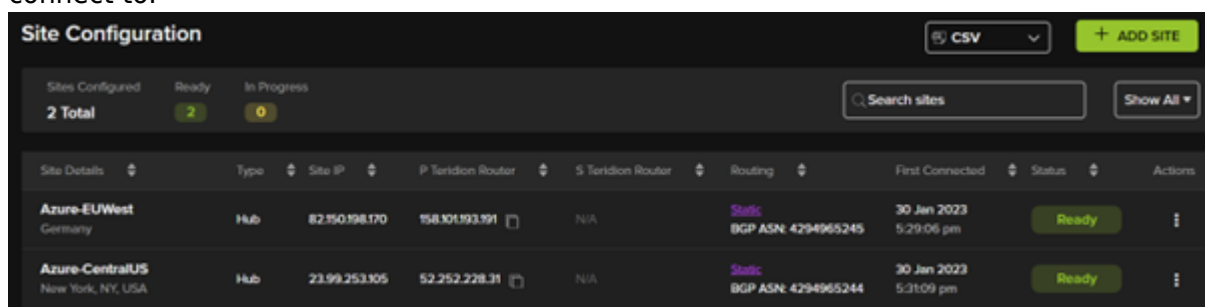
Before You Begin

- Deploy and set up your Teridion infrastructure. For assistance on the Teridion setup, please [contact Teridion](#).

Step 1. Collect Site Information

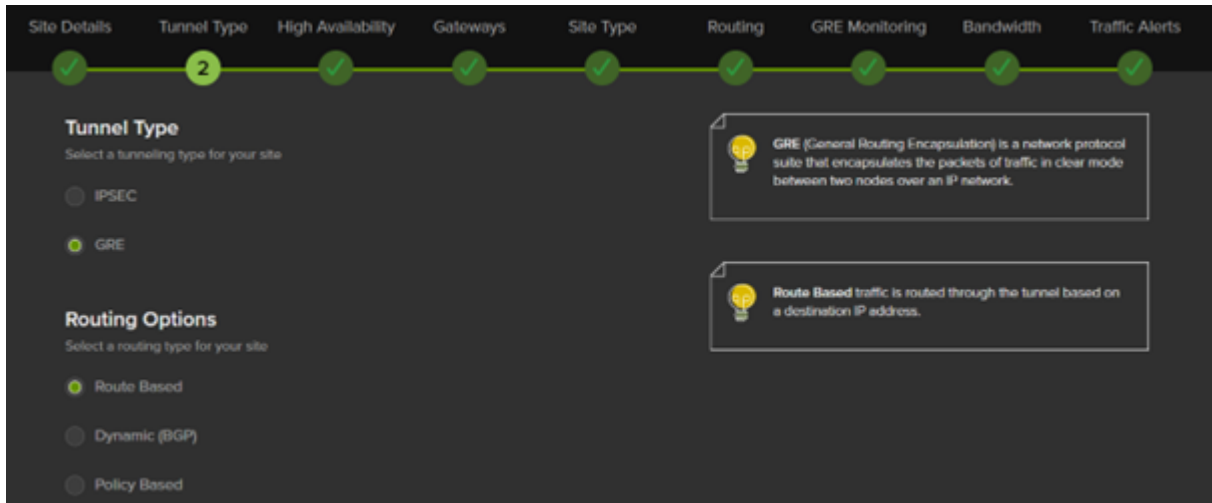
Log into your Teridion portal and collect the following information:

1. From the **Site Configuration**, collect the information on the PoE IP from the site you need to connect to.



Site Configuration									
Sites Configured		Ready	In Progress			Search sites		Show All	
2 Total		2	0						
Site Details	Type	Site IP	P Teridion Router	S Teridion Router	Routing	First Connected	Status	Actions	
Azure-EUWest Germany	Hub	82.150.198.170	158.101.193.191	N/A	Static BGP ASN: 4294965245	30 Jan 2023 5:29:06 pm	Ready		
Azure-CentralUS New York, NY, USA	Hub	23.99.253.105	52.252.228.31	N/A	Static BGP ASN: 4294965244	30 Jan 2023 5:31:09 pm	Ready		

- Tunnel Type



Site Details Tunnel Type High Availability Gateways Site Type Routing GRE Monitoring Bandwidth Traffic Alerts

Tunnel Type
Select a tunneling type for your site

☐ IPSEC

☒ GRE

Routing Options
Select a routing type for your site

☒ Route Based

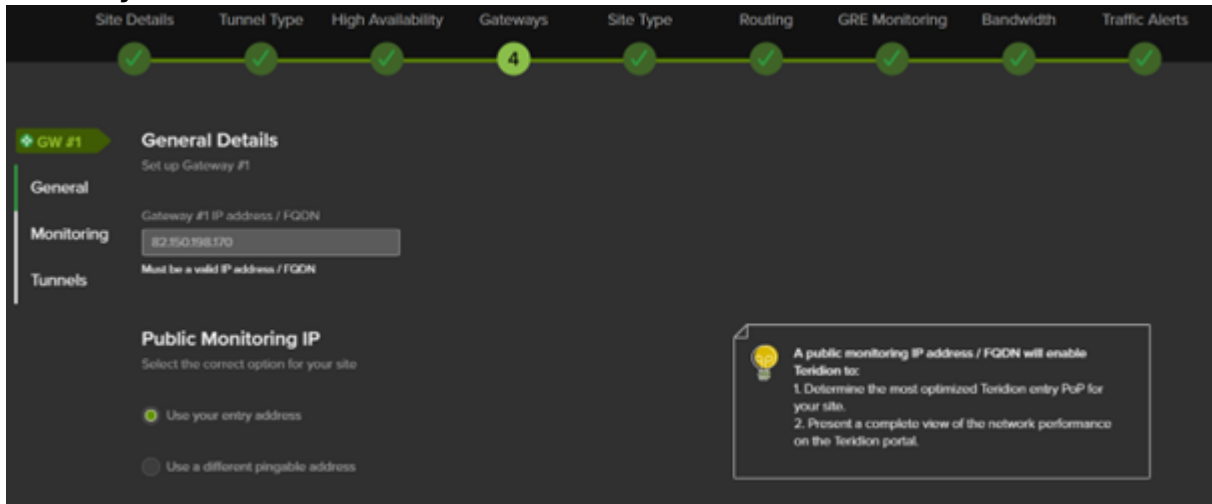
☐ Dynamic (BGP)

☐ Policy Based

GRE (General Routing Encapsulation) is a network protocol suite that encapsulates the packets of traffic in clear mode between two nodes over an IP network.

Route Based traffic is routed through the tunnel based on a destination IP address.

- High Availability (optional)
- Gateway IPs



Site Details Tunnel Type High Availability Gateways Site Type Routing GRE Monitoring Bandwidth Traffic Alerts

GW #1
Set up Gateway #1

General

Gateway #1 IP address / FQDN
192.168.1.10
Must be a valid IP address / FQDN

Monitoring

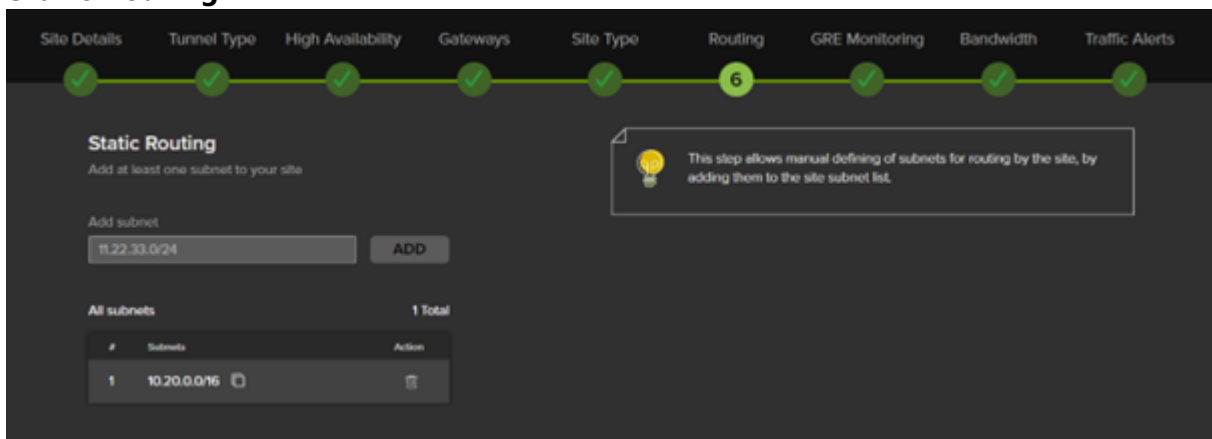
Public Monitoring IP
Select the correct option for your site

☒ Use your entry address

☐ Use a different pingable address

A public monitoring IP address / FQDN will enable Teridion to:
1. Determine the most optimized Teridion entry PoP for your site.
2. Present a complete view of the network performance on the Teridion portal.

- Static Routing



Site Details Tunnel Type High Availability Gateways Site Type Routing GRE Monitoring Bandwidth Traffic Alerts

Static Routing
Add at least one subnet to your site

Add subnet
192.168.1.0/24
ADD

All subnets 1 Total

#	Subnets	Action
1	10.20.0.0/16	

This step allows manual defining of subnets for routing by the site, by adding them to the site subnet list.

- GRE Monitoring - Must be deactivated.

- **IPSec IKEv2 Settings**

In this example, we have collected the following settings:




































- **PoE (IP Teridion Router):** 158.101.193.191
- **Gateway #1 IP (Firewall Public IP):** 82.150.198.170
- **Routed Network:** 10.20.0.0/16

Step 2. Configure IP Tunneling

On the Barracuda CloudGen Firewall, do the following:

1. Go to **Configuration > Configuration Tree > Box > Network**.
2. In the left menu, select **IP Tunneling**.
3. Click **Lock**.
4. In the **IP Tunneling** section, click **+**.
5. Provide a meaningful **Name** for the **GRE Tunnel**.
6. Configure the remaining settings according to your setup:

Tunnel Configuration

Encapsulation Mode	GRE(47)	
Tunnel TTL		
Set Multicast Flag	no	
Source IP Type	BoxIP	
Source IP	10.20.0.5	  
Source Mask	single-host	
Route Metric	15	
Remote End IP	158.101.193.191	  
Check Reachability	yes	
Local End IP	82.150.198.170	  
Trust Level	Trusted (added to Trusted-LAN for Firewall)	
Target Networks	<div>      </div> <div>10.2.0.0/24</div>	
Advertise Route	no	
Use Policy Routing	no	
Table Placement	postmain	
Use Table		
Source Networks	<div>      </div> <div>0.0.0.0/0</div>	

- **Encapsulation Mode** - Select **GRE(47)**.
- **Source IP Type** - Select **Box IP**.
- **Source IP** - Use one of the box IP addresses that reside in the **Network (Static Routing - 4)** window of the Teridion setup (e.g: 10.20.0.5) .
- **Source Mask** - Select **single host**.
- **Remote End IP** - Enter the public IP of PoE, e.g, 158.101.193.191
- **Check Reachability** - Select **yes**.
- **Local End IP** - Enter the public IP of your CloudGen Firewall, e.g., 82.150.198.170
- **Trust Level** - Select **Trusted** or configure a firewall policy to allow the traffic
- **Target Networks** - Add networks that are are reachable through GRE tunnel /Teridion Network, e.g., 10.2.0.0/16

Additional Resources

- [How to Connect the Barracuda CloudGen Firewall to Teridion via IPSec](#)

Figures

1. gre1.png
2. gre2.png
3. gre3.png
4. gre4.png
5. gre5.png
6. gre6.png

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