

How to Create a TINA VPN Tunnel between Barracuda NG Firewalls

<https://campus.barracuda.com/doc/43846965/>

Use the TINA protocol for VPN connections between two Barracuda NG Firewalls. The TINA protocol offers many advantages:

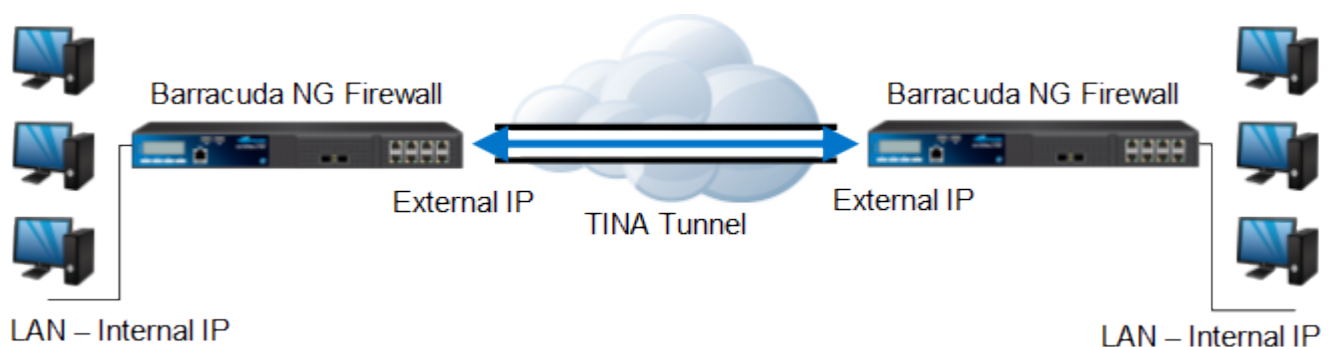
- Modified initial handshake with the intention to improve denial-of-service protection for x.509 digital certificate based authentication.
- Multiple encapsulation transports (ESP, UDP, TCP and TCP/UDP hybrid mode).
- Multiple transport paths for a logical tunnel for improved traffic distribution across multiple links and enhanced protection against line failure.
- Heartbeat monitoring of the tunnel status for failover action.
- Continual bandwidth and throughput evaluation.
- Immunity to intermittent NAT devices or proxies (HTTPS, SOCKS) on the way between two tunnel endpoints.

The following article provides you with instructions on how to create a TINA VPN tunnel between Barracuda NG Firewall:

In this article:

Example Environment

This example configuration uses default VPN settings and IP addresses for the networks that are illustrated in the following figure:



IP Address	Location 1	Location 2
Management IP	10.10.10.1	10.10.20.1
Local Area Network	10.10.10.0/24	10.10.20.0/24
External IP	212.86.0.253	213.47.0.253

Tunnel Setting	Location 1	Location 2
Transport	UDP	UDP
Encryption	AES	AES
Authentication	MD5	MD5

The following sections use the default transport, encryption, and authentication settings. For more detailed information, see [TINA Tunnel Settings](#).

Configure the TINA Tunnel at Location 1

For the Barracuda NG Firewall at Location 1, configure the network settings and export the public key.

1. Log into the Barracuda NG Firewall at Location 1.
2. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > VPN-Service > Site to Site**.
3. Click **Lock**.
4. Click the **TINA Tunnels** tab.
5. Right-click the table and select **New TINA tunnel**.
6. In the **Name** field, enter the name for the new VPN tunnel.
7. Configure the local and remote networks.
 1. Click the **Local Networks** tab and enter the network address of Location 1. For example, enter 10.10.10.0/24 into the **Network Address** field and then click **Add**.
 2. Click the **Remote Networks** tab and enter the network address of Location 2. For example, enter 10.10.20.0/24 into the **Remote Network** field and then click **Add**.
 3. Click the **Local** tab and enter the external IP address of Location 1. You can select **First Server IP**, **Second Server IP**, or **Dynamic**. You can also explicitly enter an IP address. For example, select **Explicit List** from the **IP Address or Interface used for Tunnel Address** list, enter 212.86.0.253, and then click **Add**.
 4. Click the **Remote** tab and enter the external IP address or FQDN of Location 2 and then click **Add**. E.g., 213.47.0.253 or vpnloc2.yourdomain.com
8. Export the public key to the clipboard.
 1. Click the **Identify** tab.
 2. From the **Identification Type** list, select **Public Key**.
 3. Click **Ex/Import** and select **Export Public Key to Clipboard**.
9. Click **OK**.
10. Click **Send Changes** and **Activate**.

Create the TINA Tunnel at Location 2

1. Log into the Barracuda NG Firewall at Location 2.
2. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > VPN-Service > Site to Site**.
3. Click **Lock**.
4. Click the **TINA Tunnels** tab.
5. Right-click the table and select **New TINA tunnel**.
6. In the **Name** field, enter the name for the new VPN tunnel.
7. Configure the local and remote networks.
 1. Click the **Local Networks** tab and enter the network address of Location 2. For example, enter 10.10.20.0/24 into the **Network Address** field and then click **Add**.
 2. Click the **Remote Networks** tab and enter the network address of Location 1. For example, enter 10.10.10.0/24 into the **Remote Network** field and then click **Add**.
 3. Click the **Local** tab and enter the external IP address of Location 2. You can select **First Server IP, Second Server IP, or Dynamic**. You can also explicitly enter an IP address. For example, select **Explicit List** from the **IP Address or Interface used for Tunnel Address** list, enter 213.47.0.253, and then click **Add**.
 4. Click the **Remote** tab and enter the external IP address or FQDN of Location 1 and then click **Add**.E.g., 212.86.0.253 or vpnloc1.yourdomain.com
8. Import the public key from Location 1.
 1. Click the **Peer Identification** tab.
 2. Click **Ex/Import** and select **Import from Clipboard**.
9. Export the public key for Location 2 to the clipboard.
 1. Click the **Identify** tab.
 2. From the **Identification Type** list, select **Public Key**.
 3. Click **Ex/Import** and select **Export Public Key to Clipboard**.
10. Click **OK**.
11. Click **Send Changes** and **Activate**.

Import the Public Key for Location 1

The TINA VPN tunnel is not activated until the public key of Location 2 is imported to Location 1.

1. Log into the Barracuda NG Firewall at Location 1.
2. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Assigned Services > VPN-Service > Site to Site**.
3. Click **Lock**.
4. Open the configuration for Location 1.
5. Click the **Peer Identification** tab.
6. Click **Ex/Import** and select **Import from Clipboard**.
7. Click **OK**.
8. Click **Send Changes** and **Activate**.

After configuring the TINA VPN tunnel on both Barracuda NG Firewalls, you must also create a firewall rule

on both systems to allow access to their LANs.

Next Step

Create access rule to allow traffic in and out of your VPN tunnel: [How to Create Access Rules for Site-to-Site VPN Access](#).

Figures

1. tina_tunnel.png

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