

NOTA TÉCNICA

Título: Como generar VPN LAN to LAN L2TP sobre IPsec

Configurando el servidor VPN

1. Vaya a **VPN and Remote Access >> LAN to LAN**, y edite el perfil de la siguiente manera:
 - a. Habilite este perfil e ingrese el nombre del perfil.
 - b. Elija la dirección de llamadas (Call Direction) en **Dail-In** (marcación entrante).
 - c. Ingrese el nombre de usuario y la contraseña.
 - d. Ingrese la Remote Network IP como la red LAN del cliente VPN

Profile Index : 1

1. Common Settings

<p>a.</p> <p>Profile Name <input type="text" value="PPTP_VPN"/></p> <p><input checked="" type="checkbox"/> Enable this profile</p> <p>VPN Dial-Out Through <input type="text" value="WAN1 First"/></p> <p>Netbios Naming Packet <input checked="" type="radio"/> Pass <input type="radio"/> Block</p> <p>Multicast via VPN <input type="radio"/> Pass <input checked="" type="radio"/> Block (for some IGMP,IP-Camera,DHCP Relay..etc.)</p>	<p>b.</p> <p>Call Direction <input type="radio"/> Both <input type="radio"/> Dial-Out <input checked="" type="radio"/> Dial-in</p> <p><input type="checkbox"/> Always on</p> <p>Idle Timeout <input type="text" value="300"/> second(s)</p> <p><input type="checkbox"/> Enable PING to keep alive</p> <p>PING to the IP <input type="text"/></p>
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2. Dial-Out Settings

<p>Type of Server I am calling</p> <p><input checked="" type="radio"/> PPTP</p> <p><input type="radio"/> IPsec Tunnel</p> <p><input type="radio"/> L2TP with IPsec Policy <input type="text" value="None"/></p> <p>Server IP/Host Name for VPN. (such as draytek.com or 123.45.67.89)</p> <p><input type="text"/></p>	<p>Username <input style="border: 1px solid red;" type="text" value="???"/></p> <p>Password(Max 15 char) <input type="text"/></p> <p>PPP Authentication <input type="text" value="PAP/CHAP"/></p> <p>VJ Compression <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p>IKE Authentication Method</p> <p><input checked="" type="radio"/> Pre-Shared Key</p> <p><input type="text" value="IKE Pre-Shared Key"/></p> <p><input type="radio"/> Digital Signature(X.509)</p> <p>Peer ID <input type="text" value="None"/></p> <p>Local ID</p> <p><input checked="" type="radio"/> Alternative Subject Name First</p> <p><input type="radio"/> Subject Name First</p> <p>Local Certificate <input type="text" value="None"/></p> <p>IPsec Security Method</p> <p><input checked="" type="radio"/> Medium(AH)</p> <p><input type="radio"/> High(ESP) <input type="text" value="DES without Authentication"/></p> <p><input type="button" value="Advanced"/></p> <p>Index(1-15) in <u>Schedule</u> Setup:</p> <p><input type="text"/>, <input type="text"/>, <input type="text"/>, <input type="text"/></p>
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3. Dial-In Settings

<p>Allowed Dial-In Type</p> <p><input checked="" type="checkbox"/> PPTP</p> <p><input checked="" type="checkbox"/> IPsec Tunnel</p> <p><input checked="" type="checkbox"/> L2TP with IPsec Policy <input type="text" value="None"/></p> <p><input type="checkbox"/> Specify Remote VPN Gateway</p> <p>Peer VPN Server IP <input type="text"/></p> <p>or Peer ID <input type="text"/></p>	<p>c.</p> <p>Username <input style="border: 1px solid red;" type="text" value="test"/></p> <p>Password(Max 11 char) <input style="border: 1px solid red;" type="text" value="...."/></p> <p>VJ Compression <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p>IKE Authentication Method</p> <p><input checked="" type="checkbox"/> Pre-Shared Key</p> <p><input type="text" value="IKE Pre-Shared Key"/></p> <p><input type="checkbox"/> Digital Signature(X.509)</p> <p><input type="text" value="None"/></p> <p>Local ID</p> <p><input checked="" type="radio"/> Alternative Subject Name First</p> <p><input type="radio"/> Subject Name First</p> <p>IPsec Security Method</p> <p><input checked="" type="checkbox"/> Medium(AH)</p> <p>High(ESP) <input checked="" type="checkbox"/> DES <input checked="" type="checkbox"/> 3DES <input checked="" type="checkbox"/> AES</p>
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4. GRE over IPsec Settings

Enable IPsec Dial-Out function GRE over IPsec

Logical Traffic My GRE IP Peer GRE IP

5. TCP/IP Network Settings

<p>My WAN IP <input type="text" value="0.0.0.0"/></p> <p>Remote Gateway IP <input type="text" value="0.0.0.0"/></p> <p>Remote Network IP d. <input style="border: 1px solid red;" type="text" value="192.168.1.1"/></p> <p>Remote Network Mask <input type="text" value="255.255.255.0"/></p> <p>Local Network IP <input type="text" value="192.168.21.1"/></p> <p>Local Network Mask <input type="text" value="255.255.255.0"/></p> <p><input type="button" value="More"/></p>	<p>RIP Direction <input type="text" value="Disable"/></p> <p>From first subnet to remote network, you have to do</p> <p><input type="text" value="Route"/></p> <p><input type="checkbox"/> Change default route to this VPN tunnel (Only single WAN supports this)</p>
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Configurando el Cliente VPN

2. Vaya a **VPN and Remote Access >> LAN to LAN**, edite el perfil de la siguiente manera:
 - a. Habilite este perfil e ingrese el nombre del perfil.
 - b. Establezca la dirección de llamadas en **Dail-Out** (marcación saliente).
 - c. Habilite PPTP en la configuración del Dial-Out
 - d. Ingrese la IP del servidor como la WAN IP del servidor VPN
 - e. Ingrese el mismo nombre de usuario y la contraseña que en el servidor VPN
 - f. Ingrese la red remota de la IP como la red LAN del servidor VPN

VPN and Remote Access >> LAN to LAN

Profile Index : 2

1. Common Settings

<p>a.</p> <p>Profile Name <input type="text" value="PPTPClient"/></p> <p><input checked="" type="checkbox"/> Enable this profile</p> <p>VPN Dial-Out Through <input type="text" value="WAN1 First"/></p> <p>Netbios Naming Packet <input checked="" type="radio"/> Pass <input type="radio"/> Block</p> <p>Multicast via VPN <input type="radio"/> Pass <input checked="" type="radio"/> Block (for some IGMP,IP-Camera,DHCP Relay..etc.)</p>	<p>b.</p> <p>Call Direction <input type="radio"/> Both <input checked="" type="radio"/> Dial-Out <input type="radio"/> Dial-in</p> <p><input type="checkbox"/> Always on</p> <p>Idle Timeout <input type="text" value="300"/> second(s)</p> <p><input type="checkbox"/> Enable PING to keep alive</p> <p>PING to the IP <input type="text"/></p>
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2. Dial-Out Settings

<p>Type of Server I am calling</p> <p><input checked="" type="radio"/> PPTP c.</p> <p><input type="radio"/> IPsec Tunnel</p> <p><input type="radio"/> L2TP with IPsec Policy <input type="text" value="None"/></p> <p>Server IP/Host Name for VPN. (such as draytek.com or 123.45.67.89)</p> <p><input type="text" value="118.160.95.46"/> d.</p>	<p>e.</p> <p>Username <input type="text" value="test"/></p> <p>Password(Max 15 char) <input type="text" value="****"/></p> <p>PPP Authentication <input type="text" value="PAP/CHAP"/></p> <p>VJ Compression <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p>IKE Authentication Method</p> <p><input checked="" type="radio"/> Pre-Shared Key</p> <p><input type="text" value=""/></p> <p><input type="radio"/> Digital Signature(X.509)</p> <p>Peer ID <input type="text" value="None"/></p> <p>Local ID</p> <p><input checked="" type="radio"/> Alternative Subject Name First</p> <p><input type="radio"/> Subject Name First</p> <p>Local Certificate <input type="text" value="None"/></p> <p>IPsec Security Method</p> <p><input checked="" type="radio"/> Medium(AH)</p> <p><input type="radio"/> High(ESP) <input type="text" value="DES without Authentication"/></p> <p><input type="button" value="Advanced"/></p> <p>Index(1-15) in Schedule Setup:</p> <p><input type="text"/>, <input type="text"/>, <input type="text"/>, <input type="text"/></p>
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3. Dial-In Settings

<p>Allowed Dial-In Type</p> <p><input checked="" type="checkbox"/> PPTP</p> <p><input checked="" type="checkbox"/> IPsec Tunnel</p> <p><input checked="" type="checkbox"/> L2TP with IPsec Policy <input type="text" value="None"/></p> <p><input type="checkbox"/> Specify Remote VPN Gateway</p> <p>Peer VPN Server IP <input type="text"/></p> <p>or Peer ID <input type="text"/></p>	<p>Username <input style="border: 1px solid red;" type="text" value="???"/></p> <p>Password(Max 11 char) <input type="text"/></p> <p>VJ Compression <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p>IKE Authentication Method</p> <p><input checked="" type="checkbox"/> Pre-Shared Key</p> <p><input type="text" value=""/></p> <p><input type="checkbox"/> Digital Signature(X.509)</p> <p><input type="text" value="None"/></p> <p>Local ID</p> <p><input checked="" type="radio"/> Alternative Subject Name First</p> <p><input type="radio"/> Subject Name First</p> <p>IPsec Security Method</p> <p><input checked="" type="checkbox"/> Medium(AH)</p> <p>High(ESP) <input checked="" type="checkbox"/> DES <input checked="" type="checkbox"/> 3DES <input checked="" type="checkbox"/> AES</p>
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4. GRE over IPsec Settings

<p><input type="checkbox"/> Enable IPsec Dial-Out function GRE over IPsec</p> <p><input type="checkbox"/> Logical Traffic My GRE IP <input type="text"/> Peer GRE IP <input type="text"/></p>

5. TCP/IP Network Settings

<p>My WAN IP <input type="text" value="0.0.0.0"/></p> <p>Remote Gateway IP <input type="text" value="0.0.0.0"/></p> <p>Remote Network IP f. <input type="text" value="192.168.21.1"/></p> <p>Remote Network Mask <input type="text" value="255.255.255.0"/></p> <p>Local Network IP <input type="text" value="192.168.1.1"/></p> <p>Local Network Mask <input type="text" value="255.255.255.0"/></p> <p><input type="button" value="More"/></p>	<p>RIP Direction <input type="text" value="Disable"/></p> <p>From first subnet to remote network, you have to do</p> <p><input type="text" value="Route"/></p> <p><input type="checkbox"/> Change default route to this VPN tunnel (Only single WAN supports this)</p>
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3. Vaya a **VPN and Remote Access >> Connection Management**, para marcar el VPN y verificar la conectividad VPN.

VPN and Remote Access >> Connection Management

Dial-out Tool

Refresh Seconds : 10

General Mode:	<input type="text"/>	<input type="button" value="Dial"/>
Backup Mode:	<input type="text"/>	<input type="button" value="Dial"/>
Load Balance Mode:	<input type="text"/>	<input type="button" value="Dial"/>

VPN Connection Status

Current Page: 1

Page No.

VPN	Type	Remote IP	Virtual Network	Tx Pkts	Tx Rate(Bps)	Rx Pkts	Rx Rate(Bps)	UpTime	
1 (PPTP_VPN)	PPTP/MPPE	118.160.94.28 via WAN1	192.168.1.1/24	12	3	12	3	0:18:55	<input type="button" value="Drop"/>

xxxxxxx : Data is encrypted.

xxxxxxx : Data isn't encrypted.