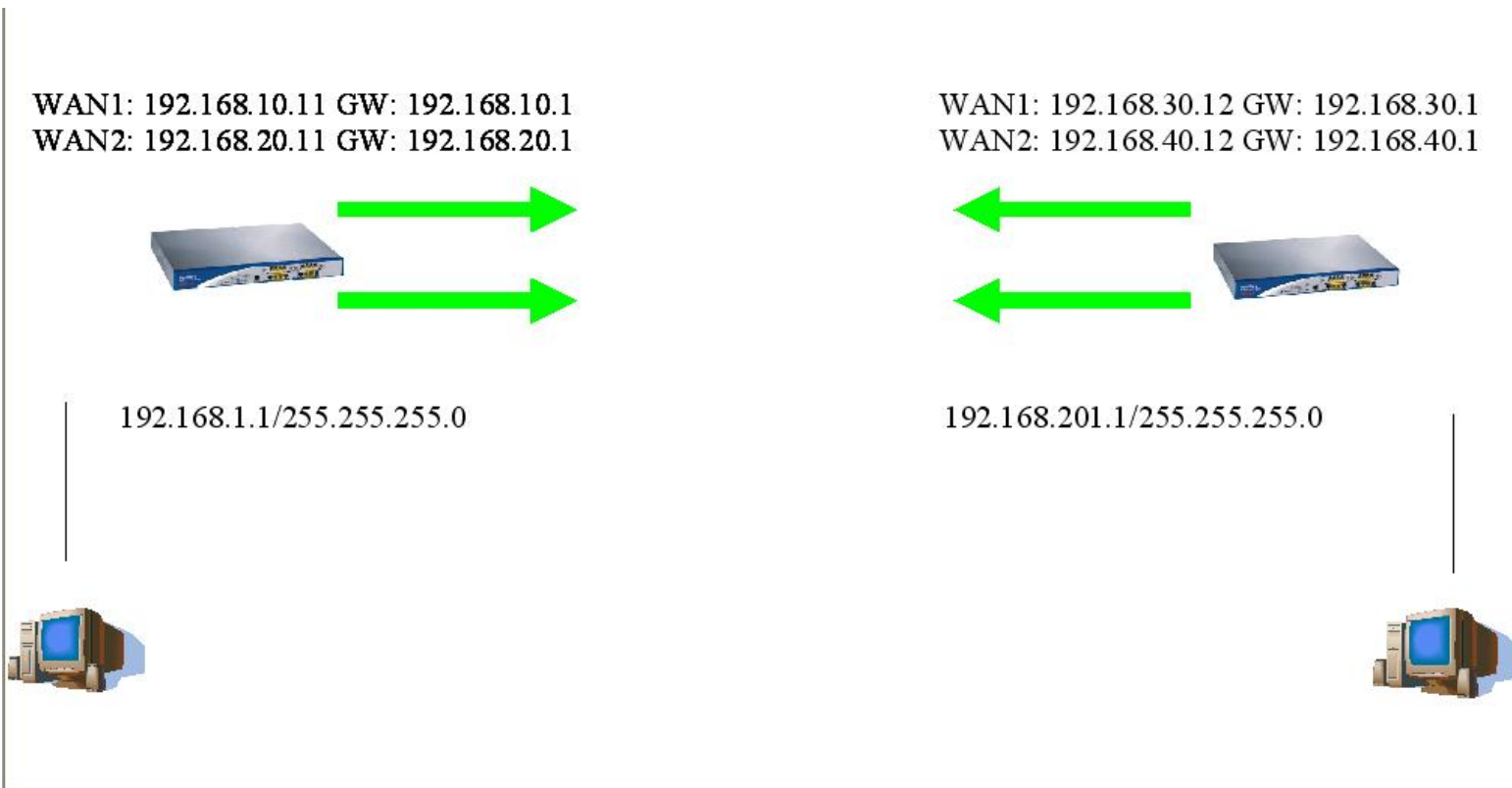


47. VPN Load Balance

Scenario:
VPN Router 1
LAN:192.168.1.1/255.255.255.0
WAN1:192.168.10.11/255.255.255.0 GW 192.168.10.1
WAN2:192.168.20.11/255.255.255.0 GW 192.168.20.1

VPN Router 2
LAN:192.168.201.1/255.255.255.0
WAN1:192.168.30.12/255.255.255.0 GW 192.168.30.1
WAN2:192.168.40.12/255.255.255.0 GW 192.168.40.1



- Step 1:
Set a GRE over IPsec tunnel from WAN1 of VPN Router 1 to WAN1 of VPN Router 2.
- 1.1
Config a GRE over IPsec tunnel in VPN Router 1 for WAN1

DrayTek Y3300 Advanced Router :: Administration - Mozilla Firefox

檔案(F) 編輯(E) 檢視(V) 瀏覽(G) 書籤(B) Yahoo! 工具(T) 說明(H)

http://192.168.1.1/cgi-bin/mainfunction.cgi?set=sys_status&sys_status_tag=1

Vigor3300 series
MultiService Security

VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advanced Firewall QoS **VPN** 10:16:27

IPSec Policy Table
PPTP & L2TP VPN Trunk Policy Table
Log Group Table
Trust CA
User Certificate
Status

System - Status

Refresh Option: No Refresh Refresh

Basic Status	LAN Status	WAN Status
Model :	Vigor3300V	
Hardware Version :	1.0	
Firmware Version :	2.5.8 RC1 (EN)	
Build Date&Time :	2007-10-19 17:20:18	
System Uptime :	0 days 0 hours 0 minutes 7 seconds	
CPU Usage :	94.2181%	
Memory Size :	64 MBytes	
Memory Usage :	19.7965%	
Current System Time :	2007-10-19 17:08:59	

DrayTek Corp. © 1997 - 2007 All rights reserved. DrayTek Enterprise Network Solutions.

完成

VPN - IPSec - VPN Trunk - Policy Table

#	Connection Name	Local GRE IP	Remote Gateway	Remote GRE IP	Interface	Profile Status	Operational Status
1						<input checked="" type="radio"/>	
2						<input type="radio"/>	
3						<input type="radio"/>	
4						<input type="radio"/>	
5						<input type="radio"/>	
6						<input type="radio"/>	
7						<input type="radio"/>	
8						<input type="radio"/>	
9						<input type="radio"/>	
10						<input type="radio"/>	

Refresh Edit Delete Delete All

DrayTek Corp. © 1997 - 2007 All rights reserved. DrayTek Enterprise Network Solutions.

VPN - IPSec - VPN Trunk - Policy Table

Default | Advanced

Basic

Profile Status:

Name:

Authentication:

Preshared Key:

Security Protocol:

NAT Traversal:

Local Gateway

WAN Interface:

Local Certificate:

Security Gateway:

Local GRE IP:

Next hop:

Remote Gateway

Remote ID:

Security Gateway: (0.0.0.0* for dynamic client)

Remote GRE IP:

Apply Cancel

1.2

Config a GRE over IPSec tunnel in VPN Router 2 for WAN1

VPN - IPSec - VPN Trunk - Policy Table

Default	Advanced
Basic	
Profile Status :	Enable ▾
Name :	vpn_trunk1
Authentication :	Preshared Key ▾
Preshared Key :	***
Security Protocol :	AH ▾
NAT Traversal :	Enable ▾
Local Gateway	
WAN Interface :	WAN1 ▾
Local Certificate :	▾
Security Gateway :	default
Local GRE IP :	192.168.100.12
Next hop :	default
Remote Gateway	
Remote ID :	
Security Gateway :	192.168.10.11 (*0.0.0.0' for dynamic client)
Remote GRE IP :	192.168.100.11

Apply **Cancel**

- Step 2:
Set a GRE over IPSec tunnel from WAN2 of VPN Router 1 to WAN2 of VPN Router 2.
- 2.1
Config a GRE over IPSec tunnel in VPN Router 1 for WAN2

The screenshot shows the administration interface of a DrayTek Y3300 Advanced Router. The browser window title is "DrayTek Y3300 Advanced Router :: Administration - Mozilla Firefox". The address bar shows "http://192.168.1.1/cgi-bin/mainfunction.cgi". The page title is "VPN - IPsec - VPN Trunk - Policy Table".

The configuration is divided into three sections: Basic, Local Gateway, and Remote Gateway.

Basic

- Profile Status: Enable
- Name: vpn_trunk2
- Authentication: Preshared Key
- Preshared Key: ***
- Security Protocol: AH
- NAT Traversal: Enable

Local Gateway

- WAN Interface: WAN2
- Local Certificate: (empty)
- Security Gateway: default
- Local GRE IP: 192.168.101.11
- Next hop: default

Remote Gateway

- Remote ID: (empty)
- Security Gateway: 192.168.40.12 (*0.0.0.0' for dynamic client)
- Remote GRE IP: 192.168.101.12

Buttons: Apply, Cancel

Bottom bar: 完成

Config a GRE over IPSec tunnel in VPN Router 2 for WAN2

VPN - IPSec - VPN Trunk - Policy Table

Default	Advanced
Basic	
Profile Status :	Enable <input type="button" value="v"/>
Name :	<input type="text" value="vpn_trunk2"/>
Authentication :	Preshared Key <input type="button" value="v"/>
Preshared Key :	<input type="text" value="***"/>
Security Protocol :	AH <input type="button" value="v"/>
NAT Traversal :	Enable <input type="button" value="v"/>
Local Gateway	
WAN Interface :	WAN2 <input type="button" value="v"/>
Local Certificate :	<input type="button" value="v"/>
Security Gateway :	<input type="text" value="default"/>
Local GRE IP :	<input type="text" value="192.168.101.12"/>
Next hop :	<input type="text" value="default"/>
Remote Gateway	
Remote ID :	<input type="text"/>
Security Gateway :	<input type="text" value="192.168.20.11"/> ('0.0.0.0' for dynamic client)
Remote GRE IP :	<input type="text" value="192.168.101.11"/>

Step3:
Set a VPN Trunk Group include 2 tunnels set above in VPN Router 1.

The screenshot shows the DrayTek V3300 Advanced Router administration interface in Mozilla Firefox. The browser address bar shows the URL: http://192.168.1.1/cgi-bin/mainfunction.cgi?set=vpn_trunk_table_view&table_name=vpn_trunk_ply&table_page=1. The interface title is "Vigor3300 series MultiService Security" with the tagline "VIGOROUS BROADBAND ACCESS". The navigation menu includes Quick Setup, System, Network, Advanced, Firewall, QoS, and VPN. The VPN menu is expanded, showing options like IPsec, PPTP & L2TP, Policy Table, VPN Trunk, Log, Trust CA, User Certificate, and Status. The "VPN Trunk" sub-menu is further expanded to show "Policy Table" and "Group Table", with "Group Table" highlighted. Below the navigation, the "VPN - IPsec - VPN Trunk - Policy Table" section contains a table with 10 rows. The first two rows are populated with data for "vpn_trunk1" and "vpn_trunk2". At the bottom right of the table area, there are buttons for "Refresh", "Edit", "Delete", and "Delete All".

#	Connection Name	Local GRE IP	Remote Gateway	Remote GRE IP	Remote GRE Interface	file Status	Operational Status
1	vpn_trunk1	192.168.100.11	192.168.30.12	192.168.100.1		enable	up
2	vpn_trunk2	192.168.101.11	192.168.40.12	192.168.101.12	WAN2	enable	up
3							
4							
5							
6							
7							
8							
9							
10							

The screenshot shows the Windows taskbar at the bottom of the screen. The system tray on the right displays the date and time as "上午 11:52". The taskbar includes several open application windows, such as "3 W", "2 S...", "2 W", "3 F...", "3 N...", "Ultr...", "4 I...", and "收...". The "開始" (Start) button is visible on the left side of the taskbar.

VPN - VPN Trunk - Group Table - Edit

1

Profile Status : Disable Enable

Name :

Local Subnet : /

Remote Subnet : /

Tunnel 1 : Weight :

Tunnel 2 : Weight :

Tunnel 3 : Weight :

Tunnel 4 : Weight :

Backup

Active	Master	Slave
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Apply Cancel

Step4:
Set a VPN Trunk Group include 2 tunnels set above in VPN Router 2.

VPN - VPN Trunk - Group Table - Edit

1

Profile Status : Disable Enable

Name :

Local Subnet : /

Remote Subnet : /

Tunnel 1 : Weight:

Tunnel 2 : Weight:

Tunnel 3 : Weight:

Tunnel 4 : Weight:

Backup

Active	Master	Slave
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Apply Cancel