HONGDIAN

Application Guide

Hongdian- Load Balance

Contents

Revision History

Document update notes are described below:

Doc Version	Product	Release Data	Details
V1.0	Hongdian Router	2017.08.25	First Release

1 Overview

"Load Balance" function can be useful in applications with redundant communications links. Using load balancing, both links (including WAN,modem,modem2,and etc.) of the router can be in use all the time. The use of multiple links simultaneously increases the available bandwidth.

This article introduces the load banlance configuration of Hongdian Router with dual modem. After configured, the two modem network links are used alternately.

2 Description

1. Setup two modem, make them both connect to internet well. Make sure both SIM card can access to internet, as show below.

Network	Applications	VPN	Forward	Security	System	Status

Basic System Information	LAN	WAN	Modem	Routing Table

Help

Display:
This page displays cellular modem status.

modem

Modem Select	0
Up Time	807 seconds
Modem Status	connected
Network Type	LTE
Signal	(31)
IP Address	10.21.117.7
DNS	210.21.196.6
SIM Status	ready
SIM ICCID	89860116851049409285
SIM IMSI	460019253723670
LAC	0
CELL ID	0

modem2

Modem Select	2
Up Time	790 seconds
Modem Status	connected
Network Type	fdd-lte
Signal	(30)
IP Address	10.231.41.43
DNS	210.21.196.6
SIM Status	ready
SIM ICCID	89860116851016866137
SIM IMSI	460019262754118
LAC	9537
CELL ID	62475
RSRP	-80 dBm
SINR	219

Refresh

2. Setup both modem and modem2 MASQ as show below:

3. Enable Load Balance and setup the static route as show below:

4. Connect two PCs to router LAN interface.
5. Check the policy route in routing table as below:

You can see the two IP address of PCs goes through different interface(one is via modem and the other is via modem2) to internet.

6. Test connection
Try to access internet from both PC. Works well.

7. Confirm PC1 and PC2 goes though different modem interface.
Method:
You can search your gateway Internet IP with Google,or visit the URL http://whatismyipaddress.com/ and etc, for checking the IP address. The two PC will have different IP show on the website for they are using different modem.

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