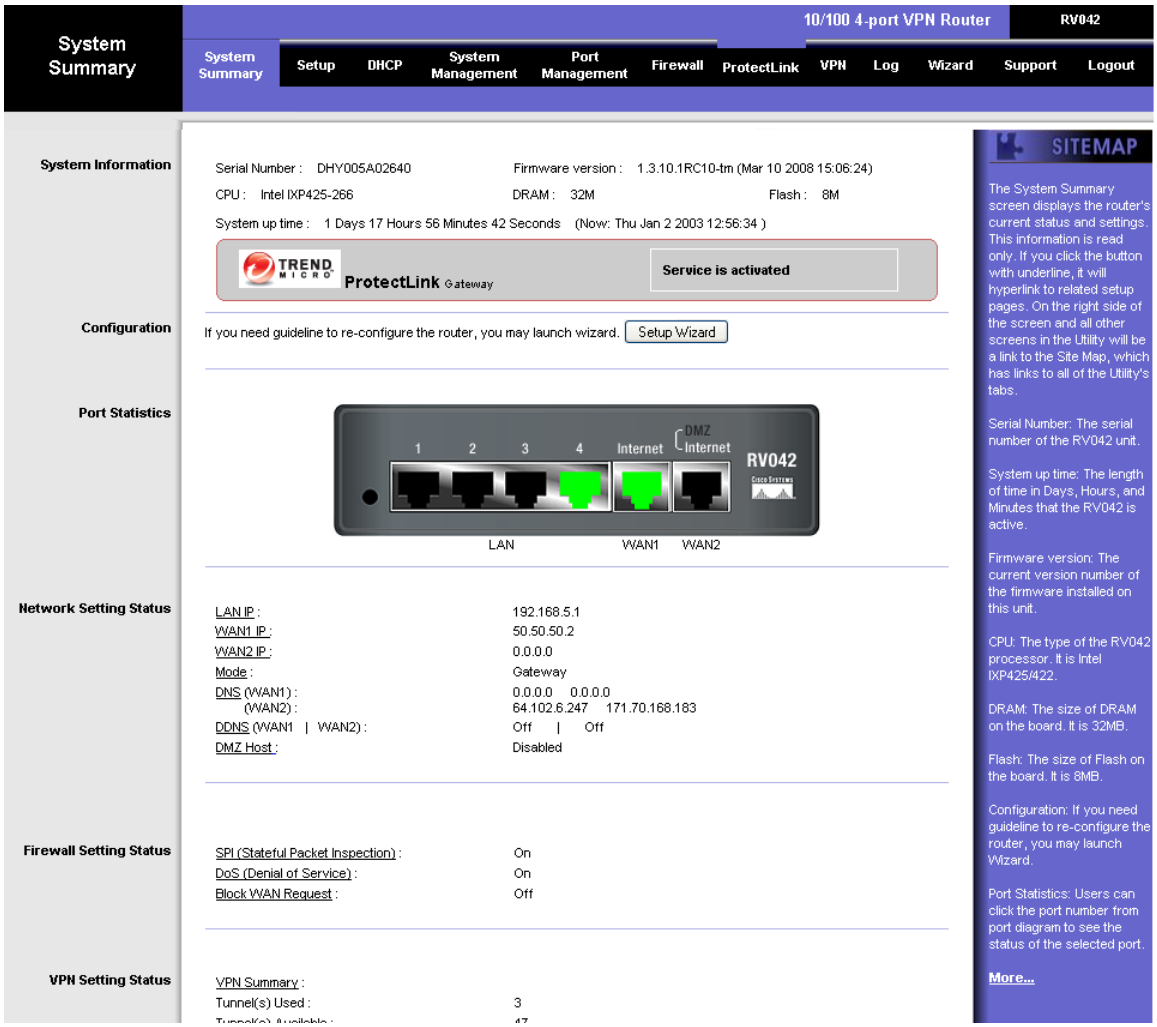
How to configure a VPN tunnel that routes all traffic to the Remote Gateway

This shows how to set up a VPN tunnel between an RV042 (branch site) and RV082 (central site) and make sure all the traffic originating from branch site would be directed over the IPsec tunnel to the central site.

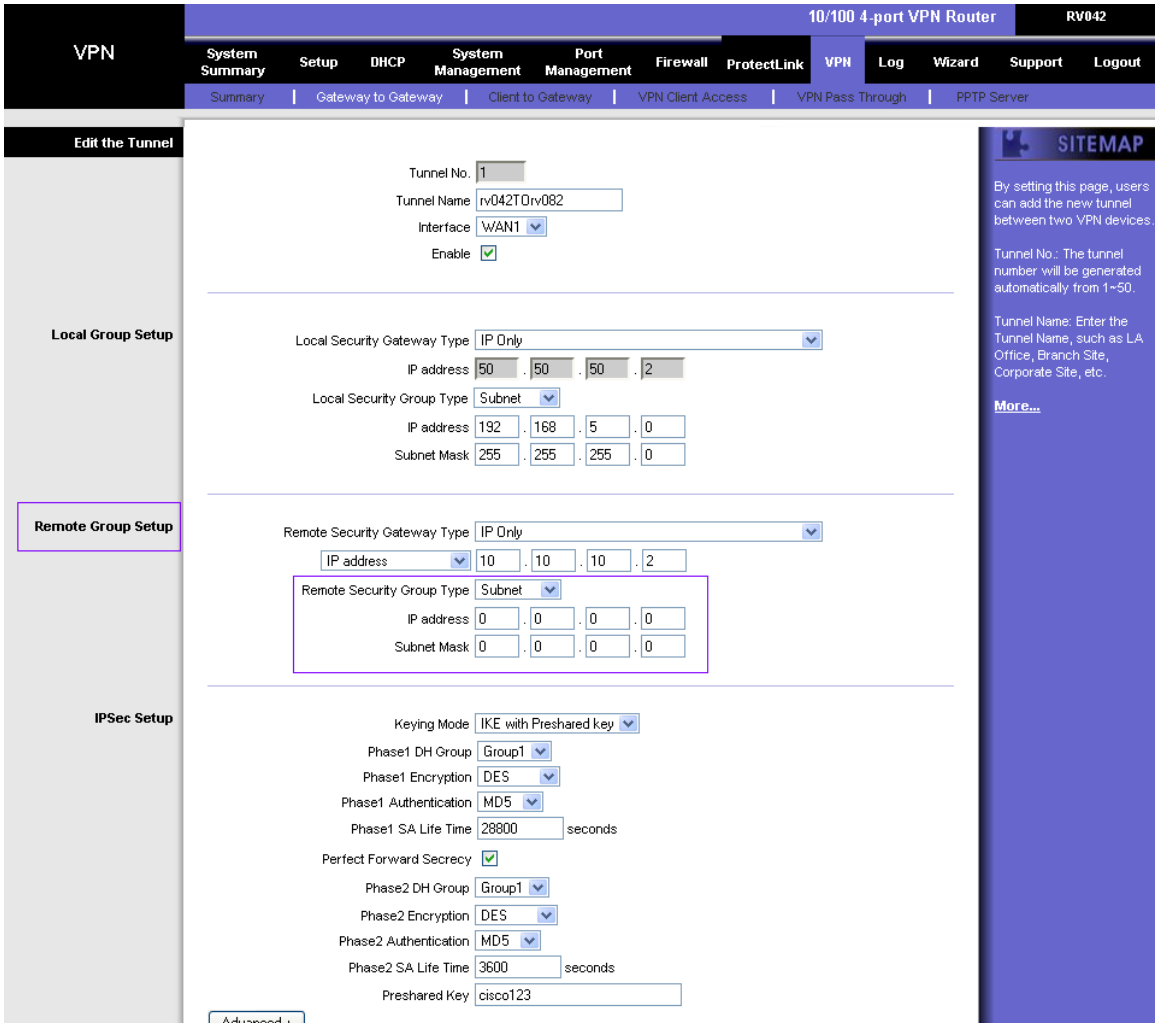
RV042 with WAN1 = 50.50.50.2
RV082 with WAN1 = 10.10.10.2

RV042 Configuration

The RV042 is connected to the network.

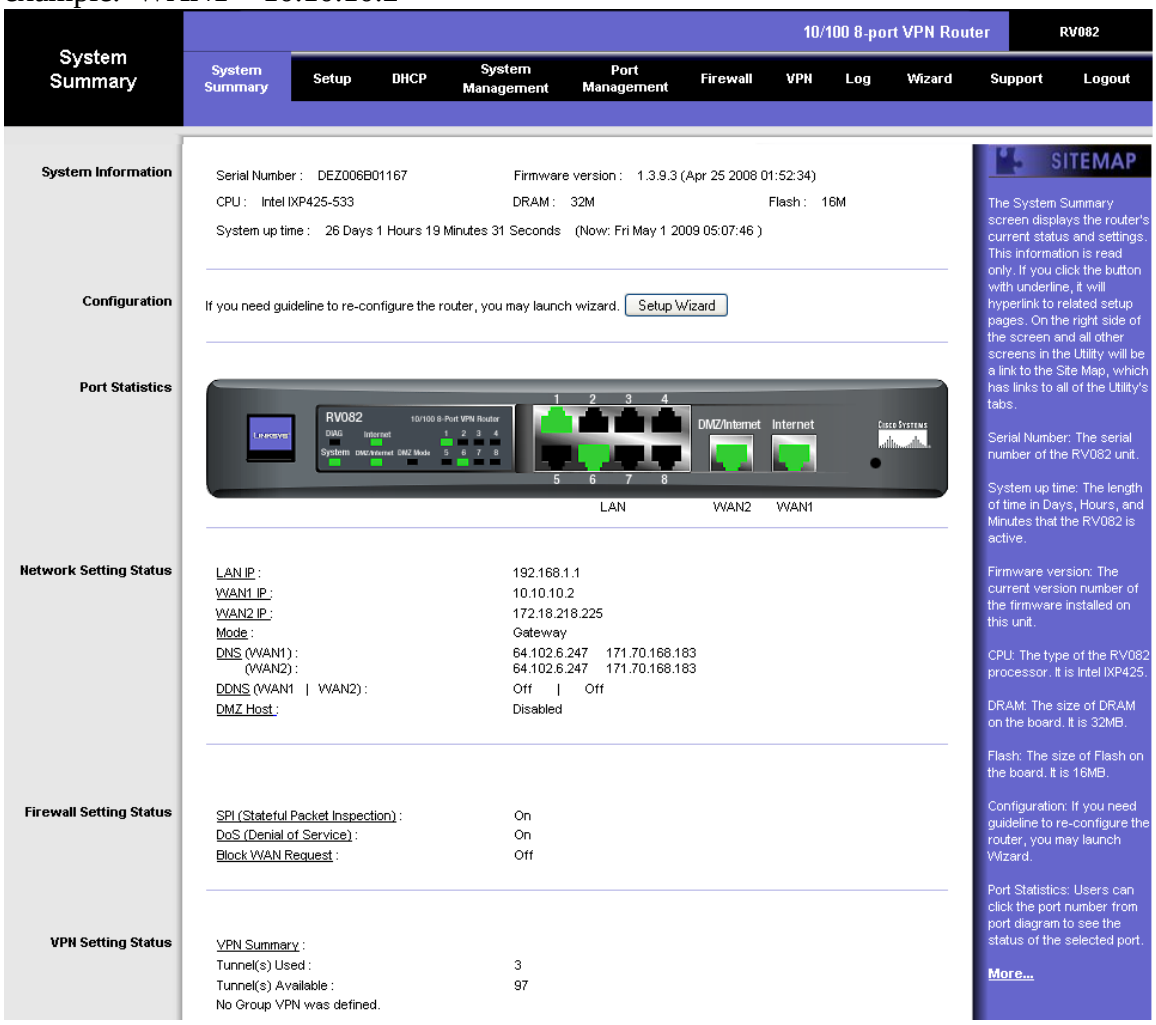


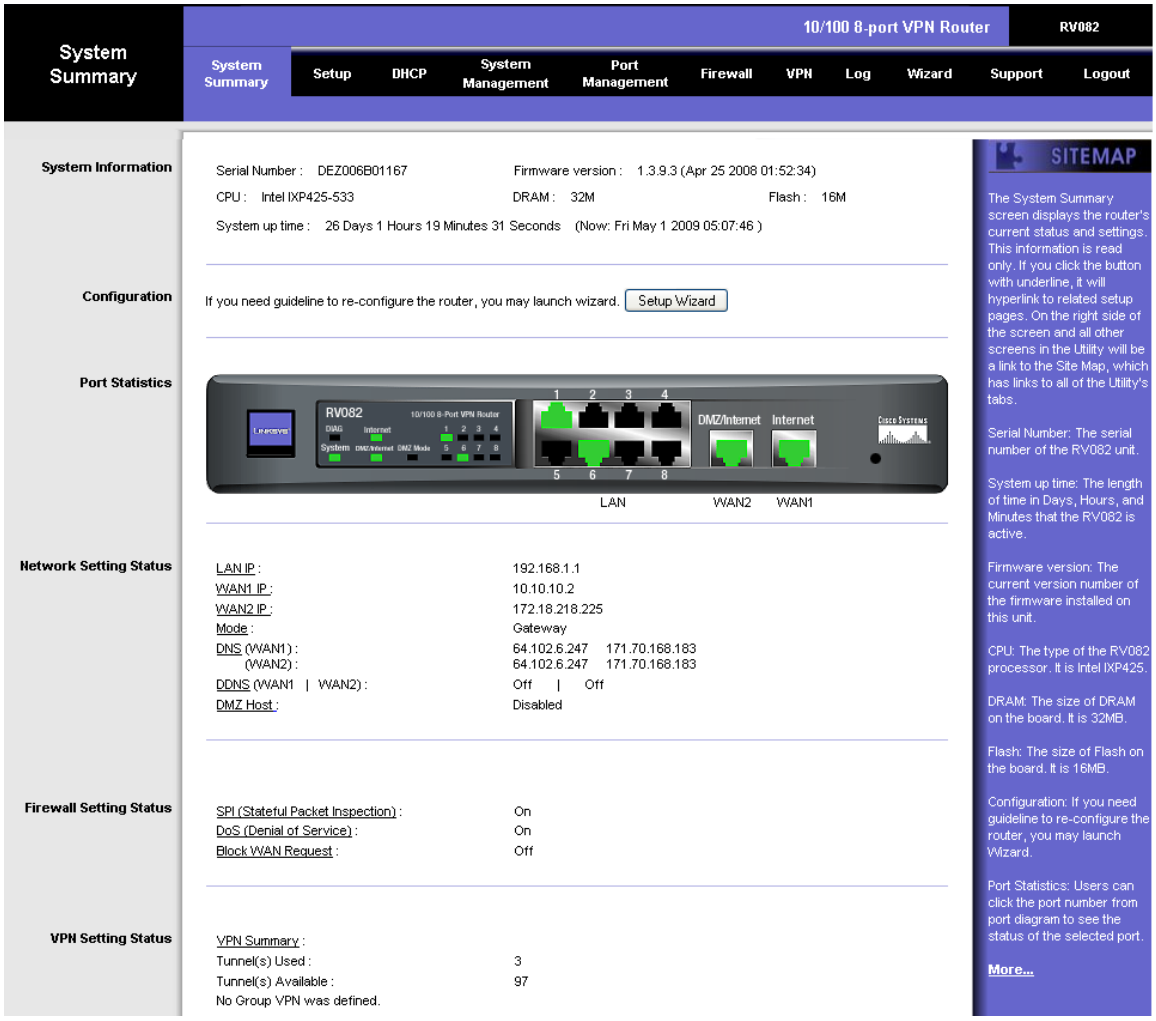
The VPN tunnel Configuration from this branch office to the Central Office.
The Remote Group Setup can be set to all zero's to specify ALL traffic to route over the tunnel to that other Router, which in my case is an RV082 with WAN IP 10.10.10.2.


VPN
10/100 4-port VPN Router
RV042
System Summary
Setup
DHCP
System Management
Port Management
Firewall
ProtectLink
VPN
Log
Wizard
Support
Logout
Summary
Gateway to Gateway
Client to Gateway
VPN Client Access
VPN Pass Through
PPTP Server
Edit the Tunnel
Tunnel No. 1
Tunnel Name rv042TOrv082
Interface WAN1
Enable
Local Group Setup
Local Security Gateway Type IP Only
IP address 50 . 50 . 50 . 2
Local Security Group Type Subnet
IP address 192 . 168 . 5 . 0
Subnet Mask 255 . 255 . 255 . 0
Remote Group Setup
Remote Security Gateway Type IP Only
IP address 10 . 10 . 10 . 2
Remote Security Group Type Subnet
IP address 0 . 0 . 0 . 0
Subnet Mask 0 . 0 . 0 . 0
IPSec Setup
Keying Mode IKE with Preshared key
Phase1 DH Group Group1
Phase1 Encryption DES
Phase1 Authentication MD5
Phase1 SA Life Time 28800 seconds
Perfect Forward Secrecy
Phase2 DH Group Group1
Phase2 Encryption DES
Phase2 Authentication MD5
Phase2 SA Life Time 3600 seconds
Preshared Key cisco123
SITEMAP
By setting this page, users can add the new tunnel between two VPN devices.
Tunnel No.: The tunnel number will be generated automatically from 1~50.
Tunnel Name: Enter the Tunnel Name, such as LA Office, Branch Site, Corporate Site, etc.
More...

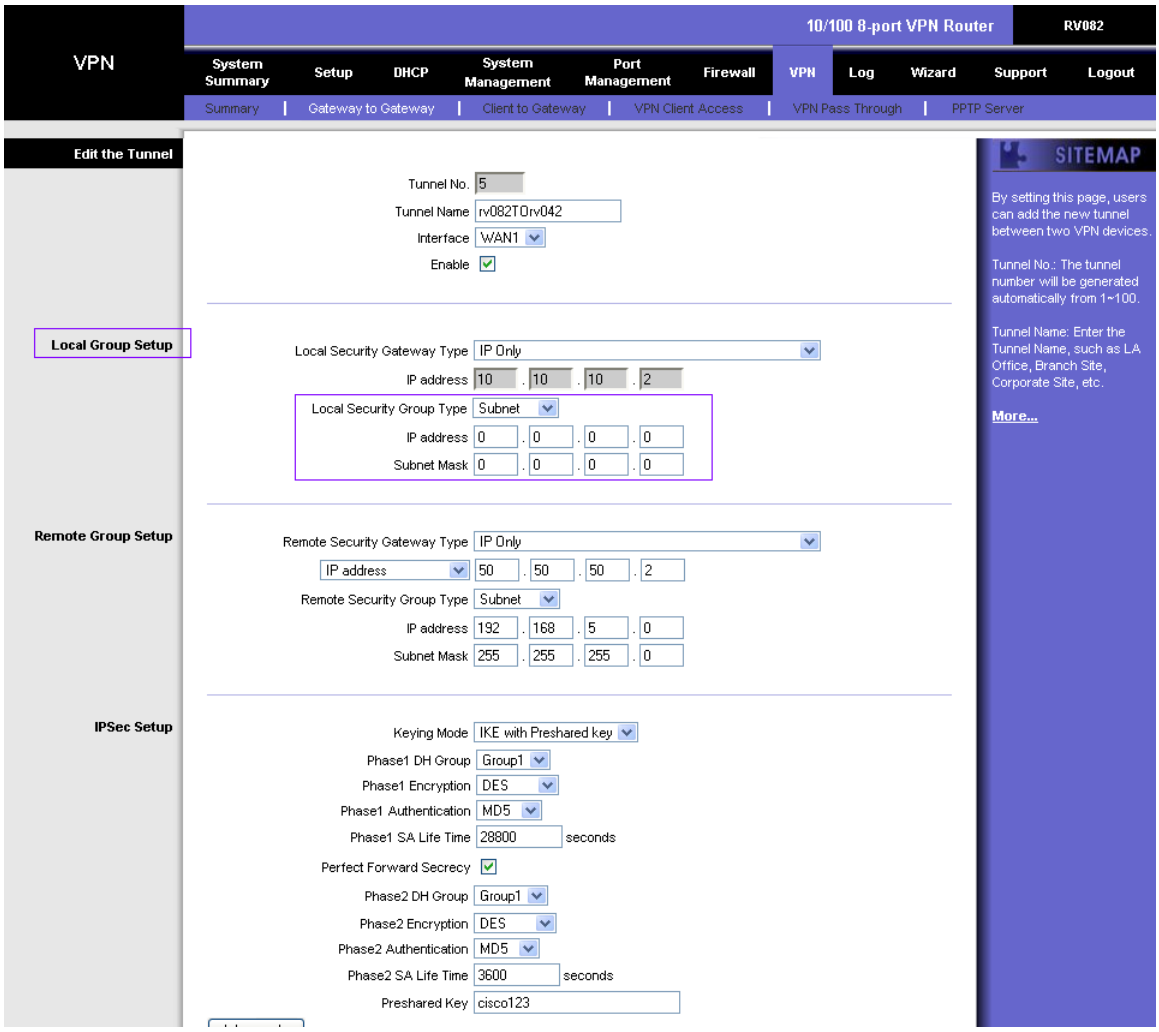
RV082 Configuration

This router has dual WAN, but the tunnel is over WAN1 so ignore the WAN2 for this example. WAN1 = 10.10.10.2

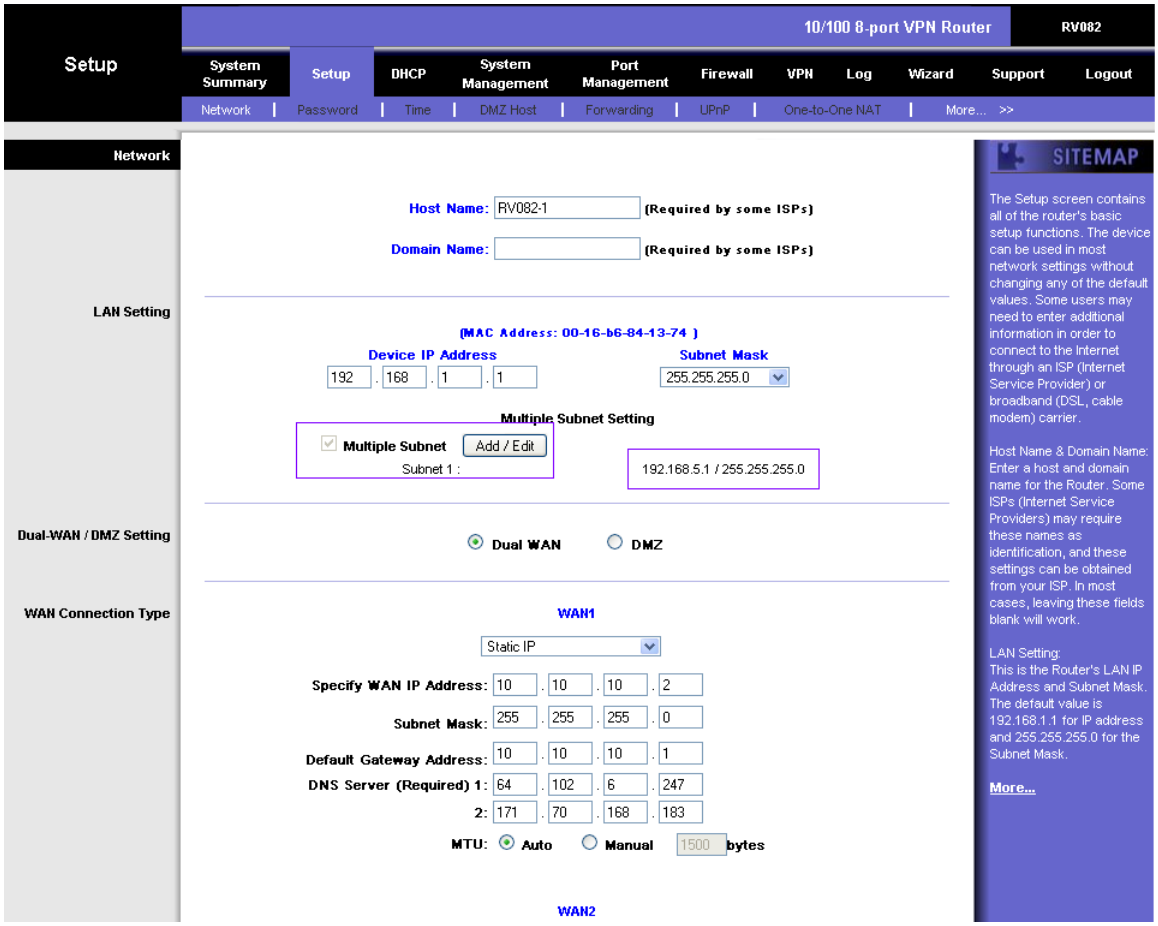




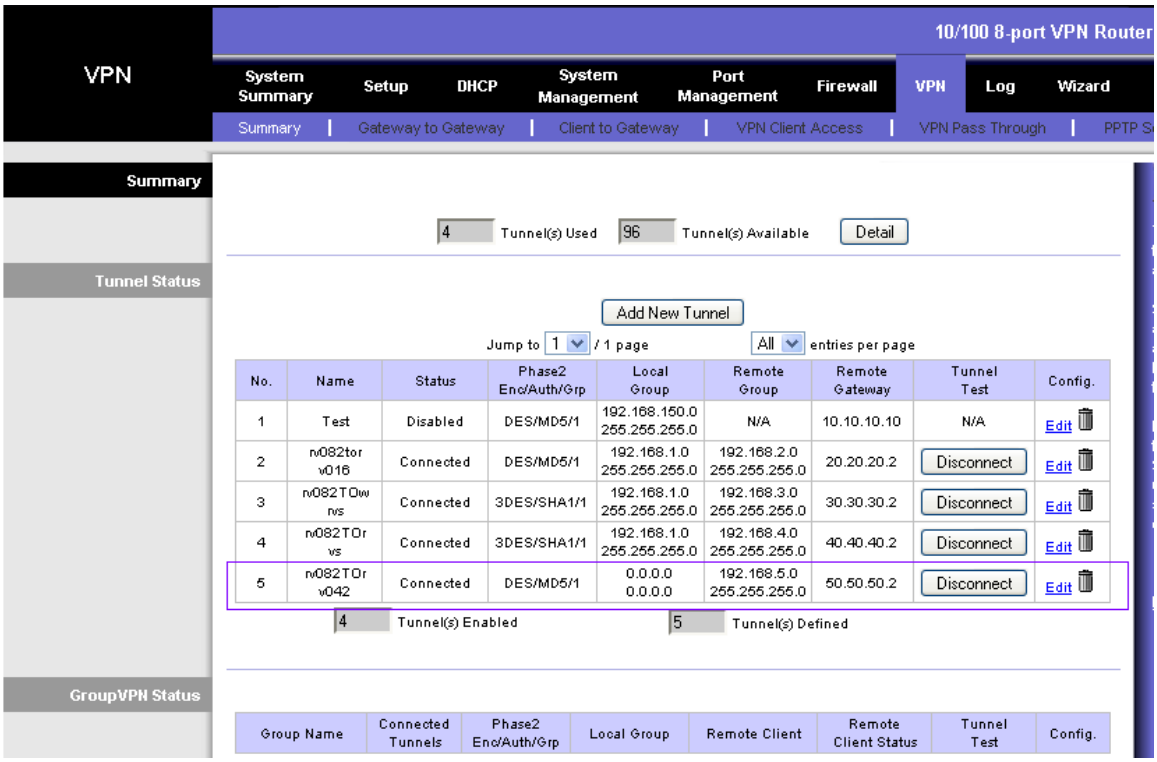
Set the Local Group to all Zero's on the tunnel to the RV042



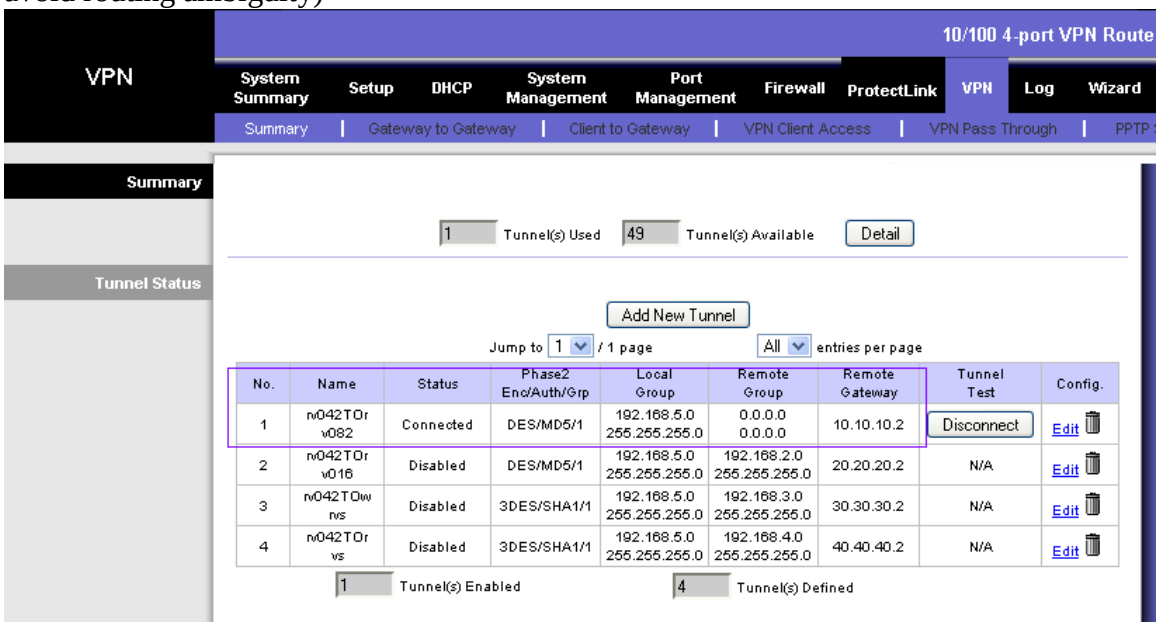
Then add the subnet of the RV042 to the RV082 (Multiple Subnet):



Verify Tunnel is up:
RV082 side:



RV042 side
(This router was previously used in a full mesh network, but I disabled those tunnels to avoid routing ambiguity)



With the PC Client plugged into RV082, ping the DGW of the interface of WAN2 on the RV082 all traffic should not travel over the tunnel to RV082 and use its WAN interface.