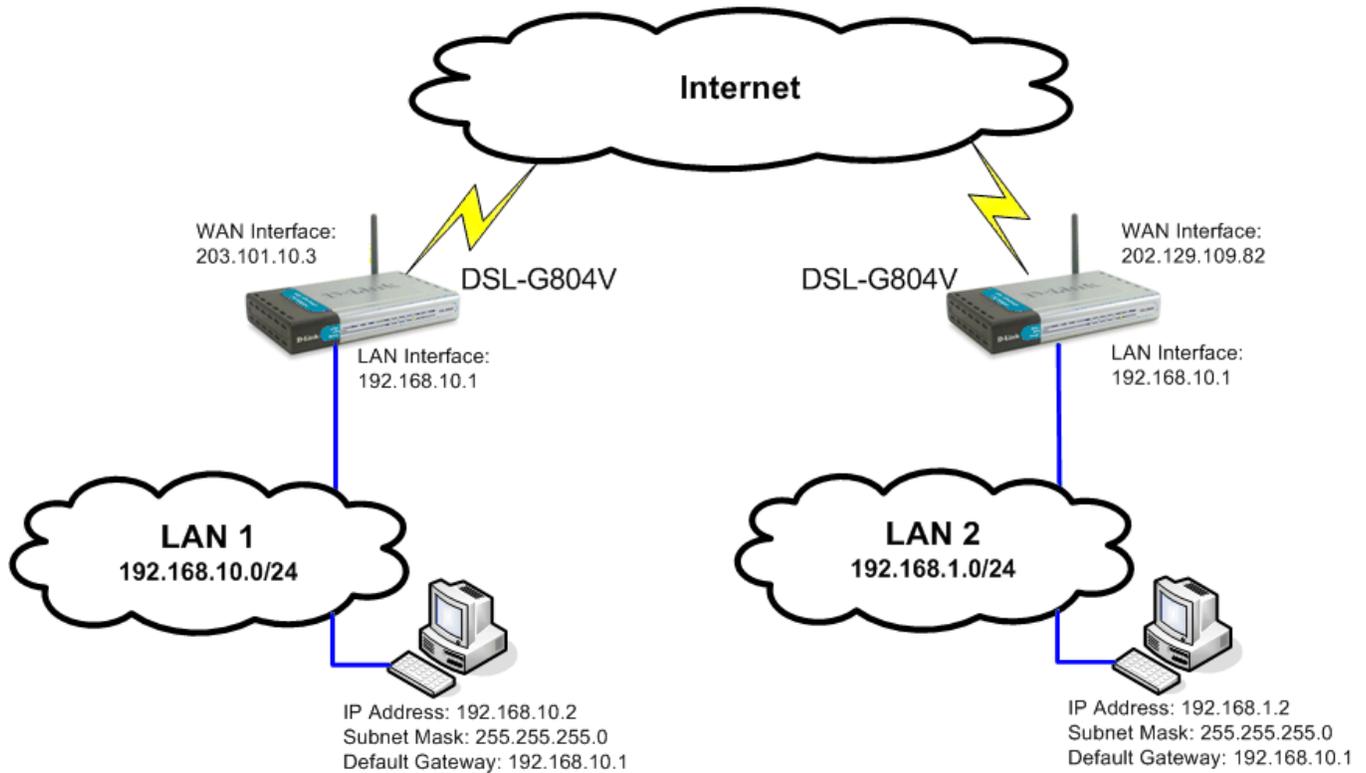


How to setup IPSec VPN connection between two DSL-G804V VPN Routers

This setup example uses the following network settings:



In our example the IPSec VPN tunnel is established between two LANs: 192.168.10.x and 192.168.1.x.

NOTE: It is essential to have private networks (LAN 1 and LAN 2) on different subnets.

Configuration of the DSL-G804V router on LAN 1

Step 1. Log into the DSL-G804V located on LAN 1. Go to Advanced > VPN and click on IPsec.

Step 2. Set “Enable after Apply” to “Yes”.

Connection Name - Enter a name for the tunnel.

Local Network - select “Subnet”.

IP Address - enter the IP Address of the local network. Note that it should be Subnet ID, not a single IP address (e.g. 192.168.10.0).

Netmask - enter the Subnet Mask of the local network.

Remote Secure Gateway IP - enter the public IP address of the remote VPN router.

Remote Network - select “Subnet”.

IP Address - enter the IP Address of the remote network. Note that it should be Subnet ID, not a single IP address (e.g. 192.168.1.0).

Netmask - enter the Subnet Mask of the remote network.

Proposal - select ESP.

Authentication Type - select MD5

Encryption - 3DES

Perfect Forward Secrecy - MODP 1024 (Group 2)

Pre-shared Key - enter the security key you want to use for your VPN connection. The same key will need to be specified in the VPN router on the other end (on remote network).

The screenshot shows the configuration interface for the D-Link DSL-G804V router. The 'Advanced' tab is selected, and the 'VPN' section is active. The 'IPSec' configuration is shown with the 'Enable after Apply' option set to 'Yes' (circled in red). Other settings include Connection Name: Work, Local Network: Subnet, IP Address: 192.168.10.0, Netmask: 255.255.255.0, Remote Secure Gateway IP: 202.129.109.82, Remote Network: Subnet, IP Address: 192.168.1.0, Netmask: 255.255.255.0, Proposal: ESP, Authentication Type: MD5, Encryption: 3DES, Perfect Forward Secrecy: MODP 1024 (Group 2), and Pre-shared Key: test. Navigation buttons (Back, Apply, Cancel, Help) are at the bottom right.

Click on the “Apply” button when done.

Step 3. Go to Tools > System. Click on the “Save” button. This will save the settings into the router’s memory.

The screenshot displays the web interface of a D-Link DSL-G804V Wireless ADSL VPN Router. The top navigation bar includes tabs for Home, Advanced, Tools (highlighted in yellow), Status, and Help. On the left side, there is a vertical menu with buttons for Admin, Date & Time, System (highlighted in yellow), Firmware, Remote Access, and Logout. The main content area is titled 'System Settings' and contains several sections: 'Save Settings To Local Hard Drive' with a 'Backup Setting' button; 'Load Settings From Local Hard Drive' with a 'Browse...' button and a 'Load' button; 'Save Config to Device Memory' with a 'Save' button highlighted by a red arrow and a text instruction: 'Please click 'Save' to start saving configuration to device memory. There will be a delay while saving as configuration information is written to device memory.'; and 'Reboot Device' with radio buttons for 'Current Settings' (selected) and 'Factory Default Settings', and a 'Reboot' button. A 'Help' icon is located in the bottom right corner of the main content area.

Configuration of the DSL-G804V router on LAN 2

The steps to configure the second DSL-G804V will be almost identical to the steps for the VPN router on the LAN 1. The only exception is the Local Network, Remote Network and the Remote Secure Gateway IP settings. Note that the subnets on each LAN connecting through VPN should be different.

Step 1. Log into the DSL-G804V located on LAN 2. Go to Advanced > VPN and click on IPsec.

Step 2. Set “**Enable after Apply**” to “Yes”.

Connection Name - Enter a name for the tunnel.

Local Network - select “Subnet”.

IP Address - enter the IP Address of the local network. Note that it should be Subnet ID, not a single IP address (e.g. 192.168.1.0).

Netmask - enter the Subnet Mask of the local network.

Remote Secure Gateway IP - enter the public IP address of the remote VPN router.

Remote Network - select “Subnet”.

IP Address - enter the IP Address of the remote network. Note that it should be Subnet ID, not a single IP address (e.g. 192.168.10.0).

Netmask - enter the Subnet Mask of the remote network.

Proposal - select ESP.

Authentication Type - select MD5

Encryption - 3DES

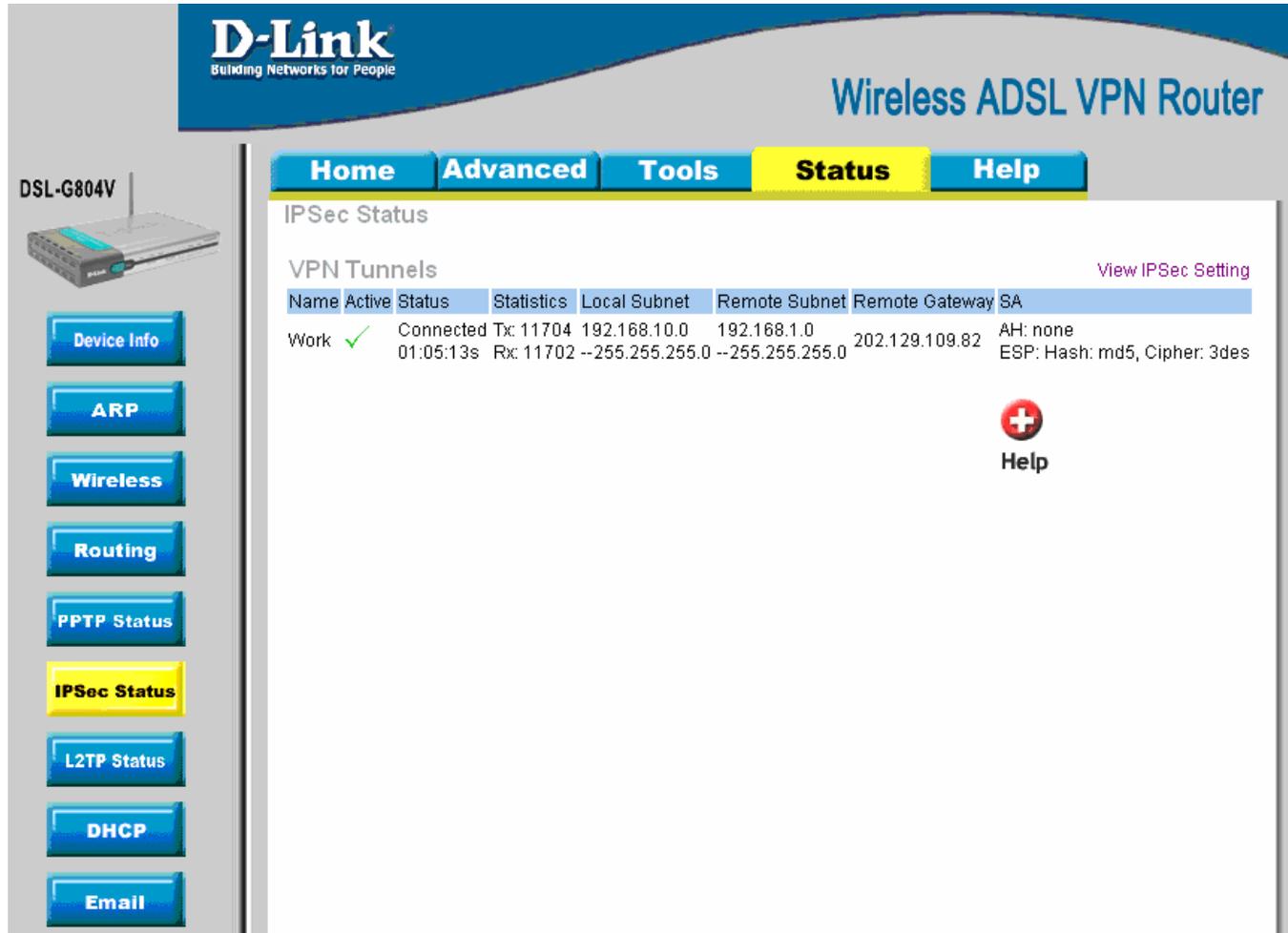
Perfect Forward Secrecy - MODP 1024 (Group 2)

Pre-shared Key - enter the same security key you have specified when setting up the VPN router on remote network.

Step 3. Go to Tools > System. Click on the “Save” button. This will save the settings into the router’s memory.

How to check VPN connection status on the DSL-G804V

On the DSL-G804V click on Status > IPsec Status.
Under VPN Tunnels > Status it should say Connected.



The screenshot displays the web management interface for a D-Link DSL-G804V Wireless ADSL VPN Router. The interface is in English and features a navigation menu with tabs for Home, Advanced, Tools, Status, and Help. The 'Status' tab is selected, and the 'IPSec Status' page is displayed. On the left side, there is a vertical menu with buttons for Device Info, ARP, Wireless, Routing, PPTP Status, IPsec Status (highlighted in yellow), L2TP Status, DHCP, and Email. The main content area shows the IPsec Status page with a sub-section for VPN Tunnels. A table lists the status of a tunnel named 'Work', which is active and connected. The table includes columns for Name, Active, Status, Statistics, Local Subnet, Remote Subnet, Remote Gateway, and SA. A 'View IPsec Setting' link is visible next to the table. A red plus icon and a 'Help' button are also present.

D-Link
Building Networks for People

Wireless ADSL VPN Router

DSL-G804V

Home Advanced Tools **Status** Help

IPSec Status

VPN Tunnels [View IPsec Setting](#)

Name	Active	Status	Statistics	Local Subnet	Remote Subnet	Remote Gateway	SA
Work	✓	Connected	Tx: 11704 01:05:13s Rx: 11702	192.168.10.0 --255.255.255.0	192.168.1.0 --255.255.255.0	202.129.109.82	AH: none ESP: Hash: md5, Cipher: 3des

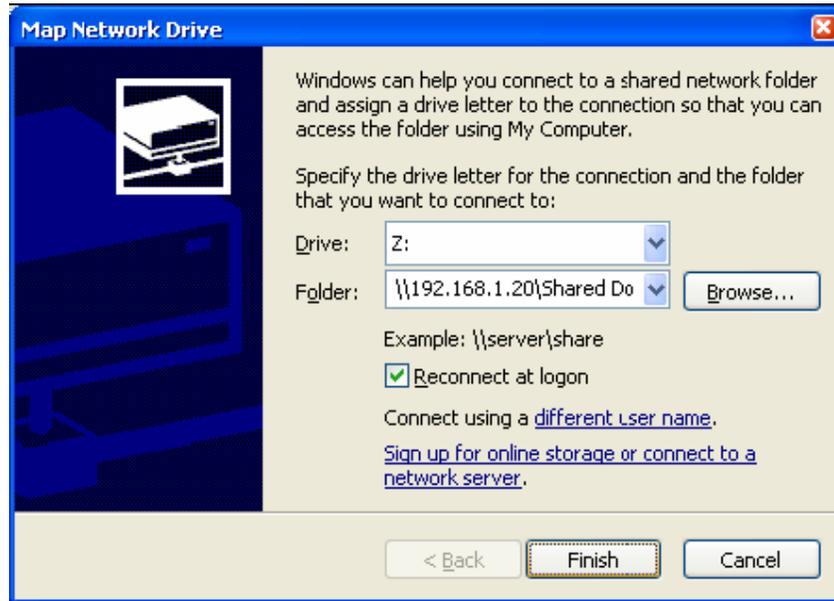
 Help

If VPN Tunnel can not be established:

- Make sure that the modem in front of the DFL-firewall supports VPN passthrough.
- Make sure that both networks are using different IP subnets.
- Check the Pre-shared keys, security algorithms and life times, make sure they match on both VPN routers.
- Restart both firewalls.

Connecting to shared resources via VPN

To connect to shared resources via VPN you can map remote computers' drives and folders by opening Windows Explorer and going to Tools > Map Network Drive (you need to specify the IP address of the computer on remote network and the name of the shared folder):



Alternatively you can do Search > Computers or People > Computer on Network > specify the IP address of the computer you are trying to connect to.

If you do not see computers in My Network Places or My Network Neighbourhood you may need to enable NetBIOS over TCP/IP in Windows.

Note that firewall/antivirus software installed on your or remote computer may stop you from accessing remote network.