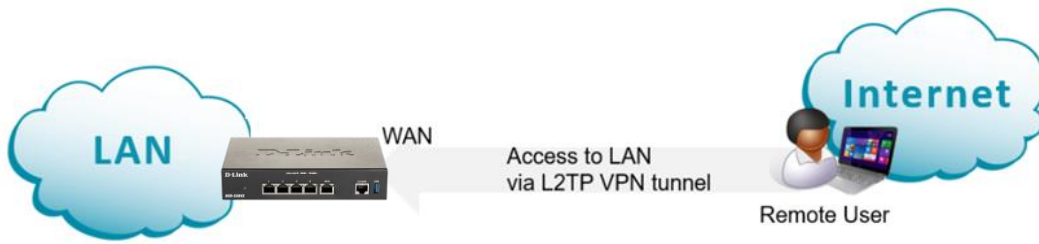# How to setup L2TP Over IPSec VPN Service in DSR-250V2

Configuration Steps:

- Create IPSec VPN Profile Policy.
- Enable L2TP Server.
- Add user database.
- Configure Windows as L2TP client.

Step 1. Go to *VPN > IPsec profiles*.

Create a new IPSec Policy. Use the below example as a guide.

Enter a Profile name, select the settings below and enter your desired Pre-shared Key.

Encryption	3DES x AES-128 x ▼

Authentication algorithm	SHA-1 x ▼

SA lifetime	28800	seconds

Authentication method	Pre-shared Key ▼

Pre-shared Key	•••••••• 👁

Dead peer detection	☐

Extended authentication	☐

IKE phase-2 settings

Protocol selection	ESP ▼

Encryption algorithm	3DES x AES-128 x ▼

Authentication algorithm	SHA-1 x ▼

SA lifetime	3600	seconds

Perfect forward secrecy	☐

Sidebar navigation:

- System and status
- Administration
- Authentication
- Interface
- Network
- Firewall
- Security
- **VPN**
  - **IPsec profiles**
  - IPsec site to site
  - IPsec client to site
  - IPsec 1 to 1 mapping
  - PPTP
  - L2TP
  - OpenVPN

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IPsec profiles

System and status
Administration
Authentication
Interface
Network
Firewall
Security
VPN
IPsec profiles

IPsec profiles

	Name	⇅	IKE Version
	L2TP		IKEV1
	IKE_profile_default		IKEV1

Step 2. Go to *VPN > L2TP > L2TP Server*.

Enable L2TP Server.

Specify the range of IP addresses you want to assign to the connecting clients (this range should be different from your LAN subnet).

Select "default_user" in Local user group.

Enable L2TP over IPSec.

Select the IPSec Profile you created in Step 1 from the IKE profile.

Step 3. Go to *Authentication > User Database > User account > Local users*.

Add new username, select "default_user" from the Group and enter passwords.

- System and status
- Administration
- **Authentication**
  - User authentication
  - User database
  - Captive portal
- Interface
- Network
- Firewall

User database

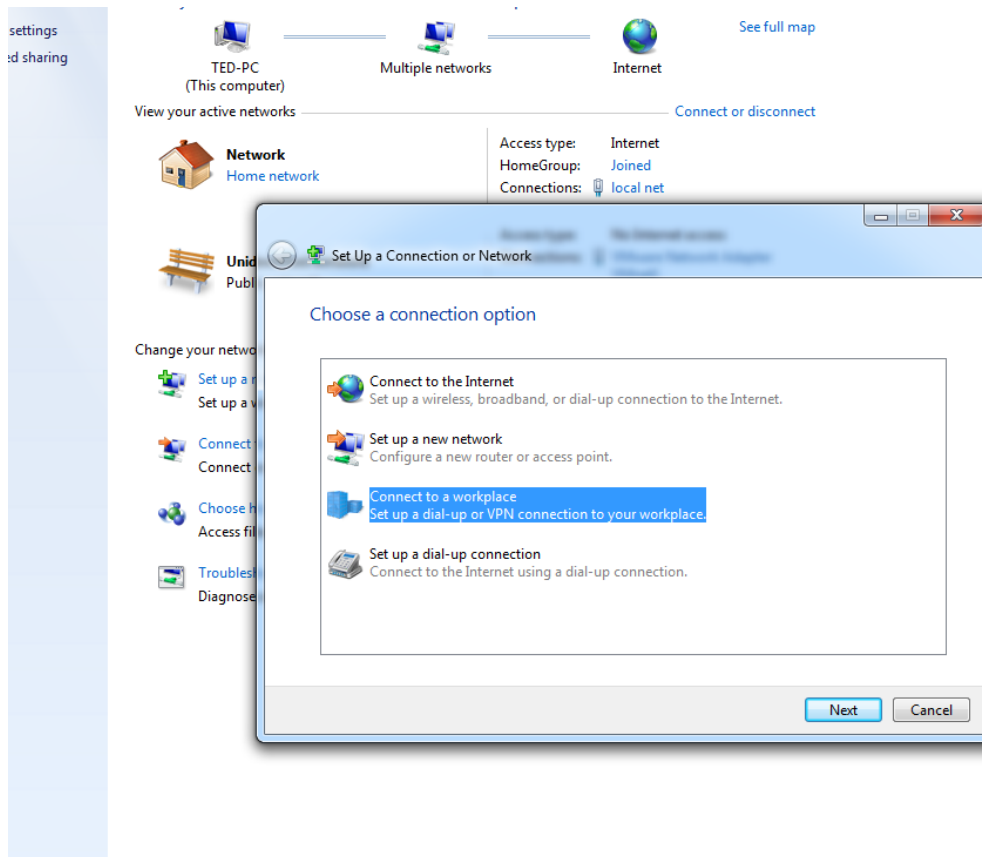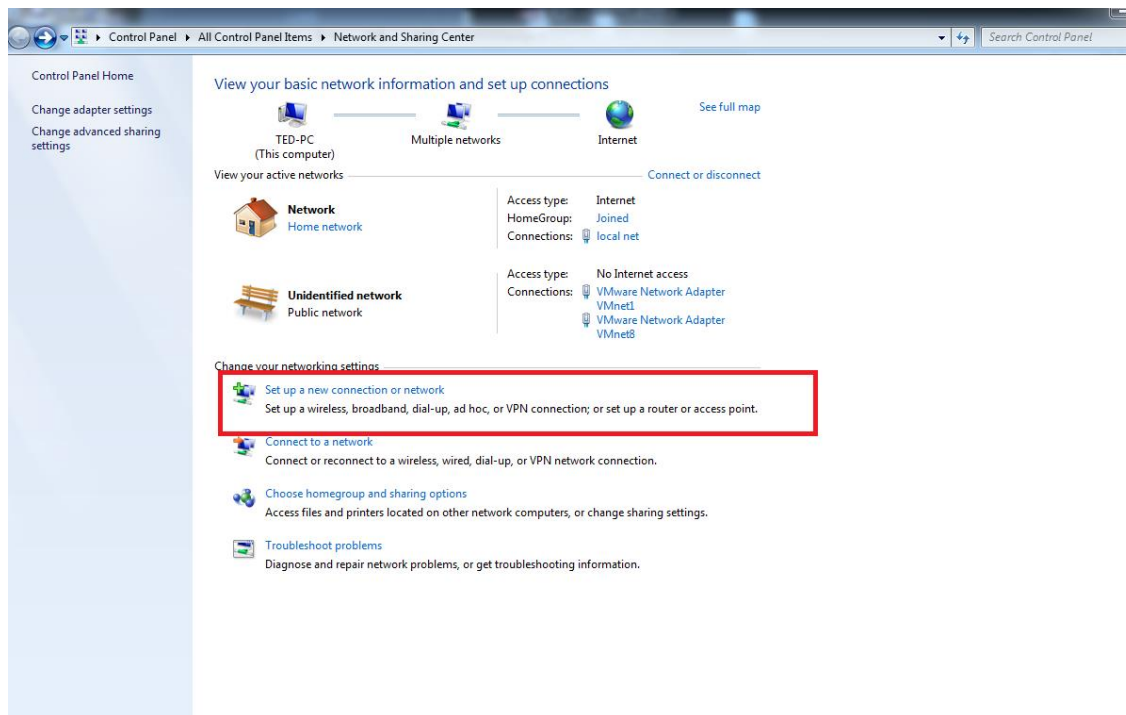**User account** | External auth server

Local group

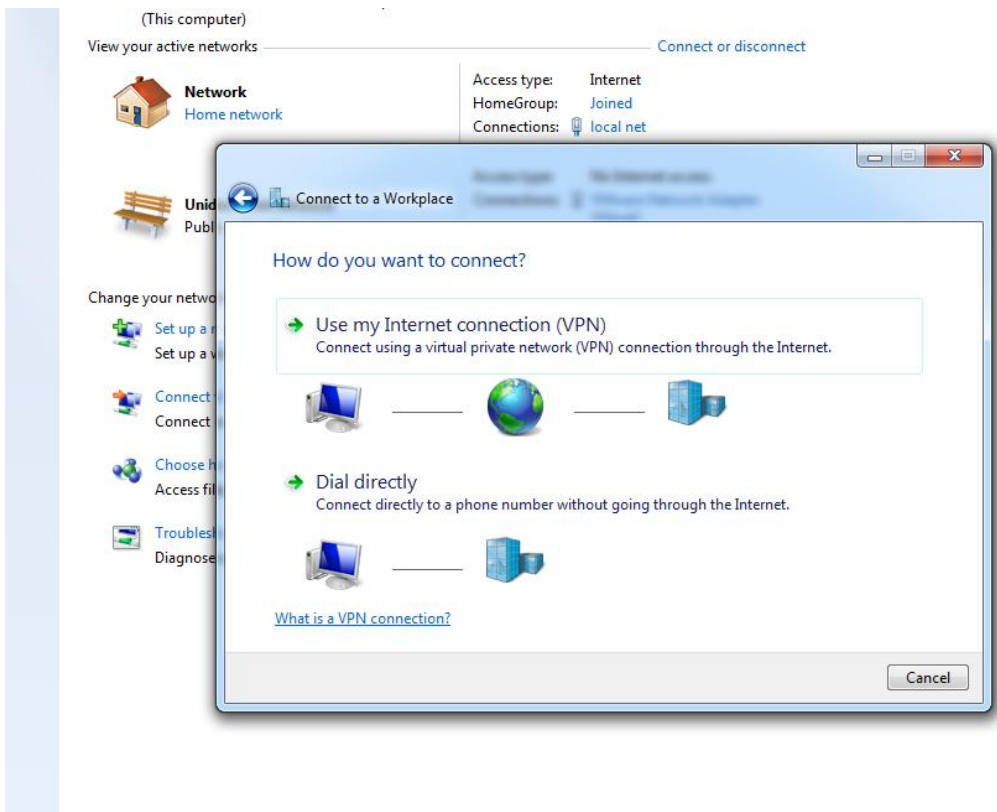+ ✎ 🗑   You have selected 1 items for delete or edit

	Group Name ↕	Member	Associated Services ↕	Description
☑	default_user	3	PPTP,L2TP	DEFAULT NETWORK GROUP
	ADMIN	1		ADMINISTRATION GROUP
	GUEST	1		GUEST GROUP

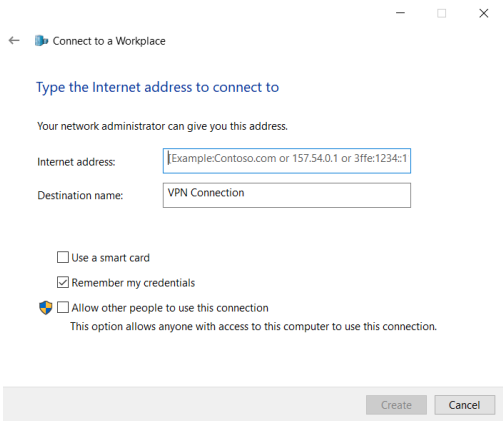Total:3 item

Step 4. Configure Windows as a L2TP client.
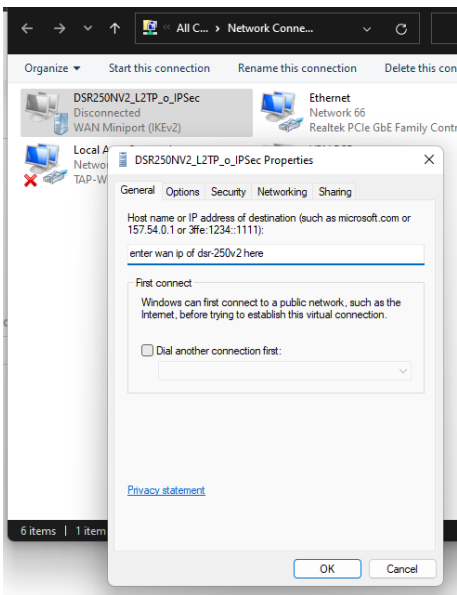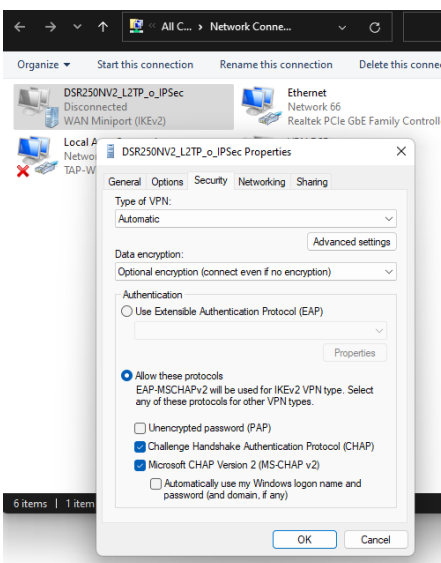
Select "Use my Internet connection (VPN)".

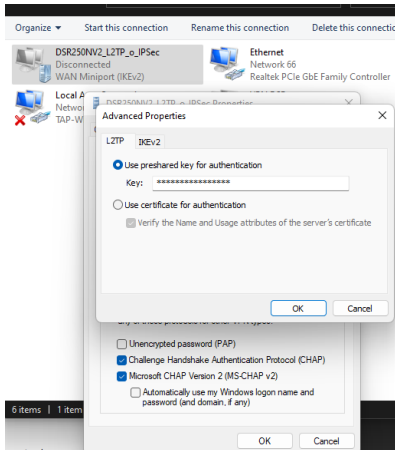Enter the DSR-250V2 WAN IP address and Destination name below.

Right-click on the VPN icon (in this example DSR250NV2_L2TP_o_IPSec) and click on Properties.

Go to Security tab and select the following settings below.

Under Security tab, click on Advanced settings and enter the same Pre-shared key you type in Step1 then press OK to exit.

Select the L2TP VPN you created from the Connection window to connect and enter the username and password.