

Secure Tunnel and Remote Access

High-Level data
encryption

Ease of use

Usage of PPTP tunnels:

For secure router-to-router
tunnels over the Internet

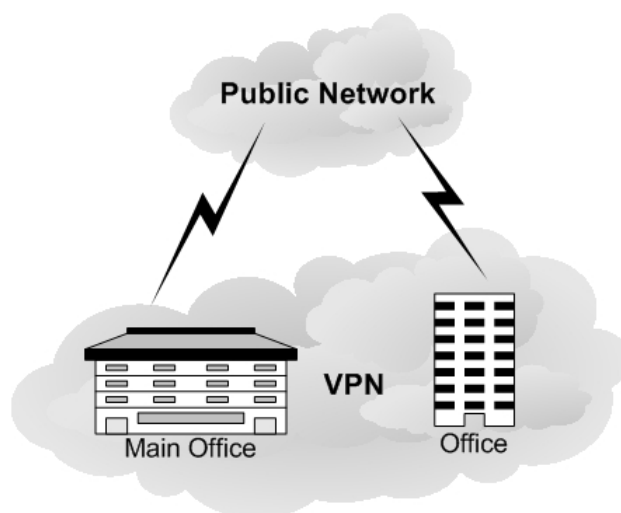
To link local Intranets or
LANs (when EoIP is
also used)

For Windows clients to
remotely access an
Intranet/LAN of a company

For 'Mobile IP' – get your
company's IP when
connected to third party
Internet connections

PPTP - Point to Point Tunnel Protocol

Point-to-Point Tunneling Protocol (PPTP) is a network protocol that enables the secure transfer of data from a remote client or office to a private enterprise server by creating a virtual private network (VPN) across TCP/IP-based data networks. PPTP encapsulates PPP in virtual lines that run over IP, so that sent information can not be read by anyone except the intended recipient. The purpose of this protocol is to make well-managed secure connections between routers or between routers and Windows Clients. PPTP can protect the PPTP server and private network by ignoring all but PPTP traffic. PPTP is compatible with most network protocols and is characterized by being generally easy to set up and manage. Tunneling also provides the benefit of hiding the IP addresses of the actual sender and receiver - the packet that travels across the Internet is encrypted and only the IP addresses of the endpoints - gateways or clients - are exposed.



PPTP Specifications:

Incorporated Protocols	PPP MPPE
Authentication	RADIUS client Local authentication
Encryption Protocols	MPPE 40bit RC4 MPPE 128bit RC4
Port deployed	TCP port 1723
Protocol utilized	IP protocol ID 47

Scalable - Support for multiple simultaneous tunnels

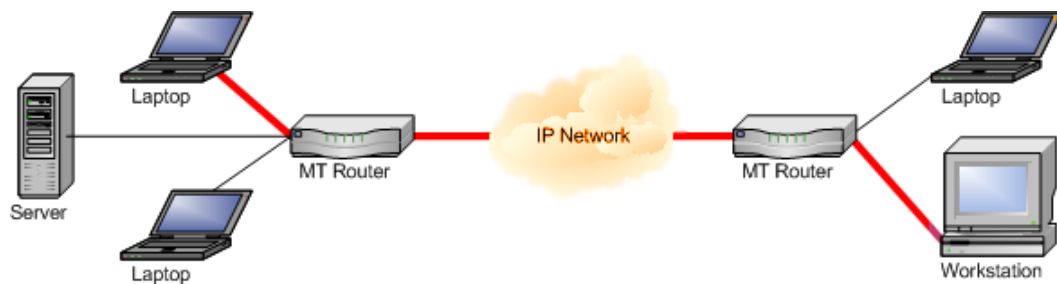
Flexible - Remote Clients can be set up quickly

Very simple to use with existing firewalls

Uses a minimum amount of memory

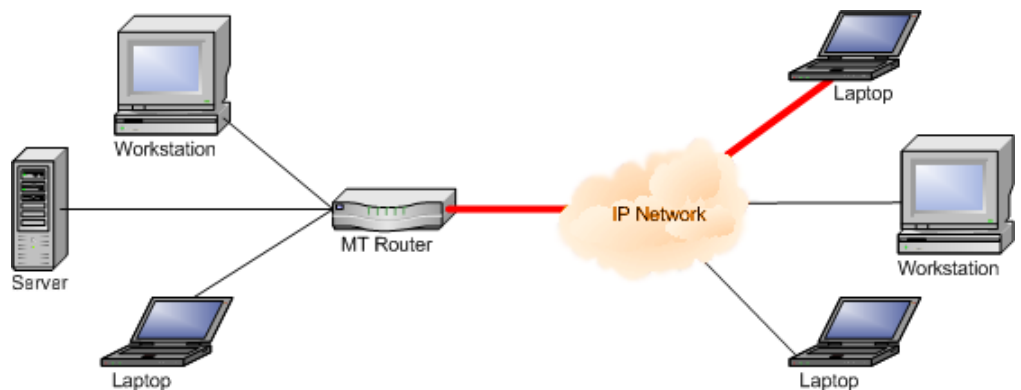
Encrypted throughput 60Mb/s on a Celeron 600MHz CPU

Connecting Offices



Point to Point Tunneling Protocol is ideal for connecting two or more remote office networks together. With a PPTP, employees can enjoy the benefits of secure email, conferencing, and file sharing between geographically separated networks. Most commonly, this is used to connect multiple branch offices to a main office and to each other. Traffic from one network is routed to a remote network via normal IP routing, but as it passes through the PPTP gateway, it is encrypted and tunneled to the PPTP gateway at the remote office. When the remote gateway receives the encrypted packet, router decrypts it and forwards the original, unmodified packet to its intended recipient.

Windows Client to a remote Network



The PPTP Windows Client to remote Network connection allows employees or authorized users to access a network from a remote PC, such as traveling laptop or home computer to access the company LAN through any Internet Service Provider (ISP). Once connected to an ISP, the user initiates a PPTP link to the gateway and from then on, a tunnel is created to hide the traffic. VPN traffic between the client and the gateway will use the gateway's public address and the dynamic address assigned by the user's ISP. Once the traffic is decrypted by the gateway, it will use the client address that was assigned by the gateway to communicate with internal servers.

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