# VPN

What is it?

Like a firewall for a network

Allows private nodes to be accessible through a public network

Allows remote nodes on a public network to communicate with private nodes in a private network without the use of private leased lines.

Why VPN?

Cheaper solution for remote access than leasing of private T1-line

Problems to be addressed in implementing a VPN.

* Transporting sensitive private information over the public internet.
* Ensuring known users are accessing the network.

Protocols

What is a VPN protocol?

Is a VPN protocol designed specifically for use in VPN?

What are some VPN protocols?

* IPsec
* SSL/TLS
* SSH
* PPTP

# Connecting to a VPN

How does a remote user connect to a VPN?

Remote client installs a VPN client

Remote client initiates a VPN connection to VPN server.

Network protocol

How is tunneling relevant to VPN’s?

Various private network packets are packaged inside public network packets.

What is a VPN protocol?

What is tunneling used for?

# General Concepts

Tunneling

Mechanism for providing services over a network not otherwise providing them.

VPN server

VPN client