

VPN ACCESS

- **What is a VPN?**
- **Supported Authentication Protocols**
- **Choosing a VPN Protocol**
- **Installing the Remote Access Service**
- **Configuring the Remote Access Service**

What is a VPN?

- VPN stands for **Virtual Private Network**.
- VPNs allow users to securely connect to the local network from a remote computer.
- The remote computer virtually becomes part of the local network.

Supported Authentication Protocols

- Unauthenticated – **BAD IDEA**
- PAP – Password Authentication Protocol
(Low Security)
- CHAP – Challenge Handshake Authentication Protocol **(Medium Security)** (Non-Microsoft Systems)
- MS-CHAPv2 – Microsoft Challenge Handshake Authentication Protocol **(High Security)**
- EAP-TLS – Extensible Authentication Protocol Transport Level Security **(Highest Security)**

Multi-factor Username, smartcard, biometrics

Choosing a VPN Protocol

- **PPTP – Point to Point Tunneling Protocol**
 - **Uses MPPE encryption** Point-point protocol –original protocol
 - **Primarily used with pre-Windows 2000 clients**
- **L2TP – Layer Two Tunneling Protocol**
 - **Uses IPsec encryption**
 - **First supported in Windows 2000**
- **SSTP – Secure Socket Tunneling Protocol**
 - **Uses the SSL channel of HTTPS for encryption**
 - **New to Windows Server 2008**
 - **Primarily used when PPTP/L2TP are blocked at the firewall**

Must have a certificate assigned to Server if
You will be using sstp for your vpn protocol