4-3-1 Safer EMail

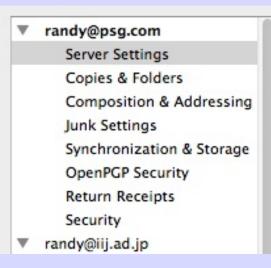
The Key Points

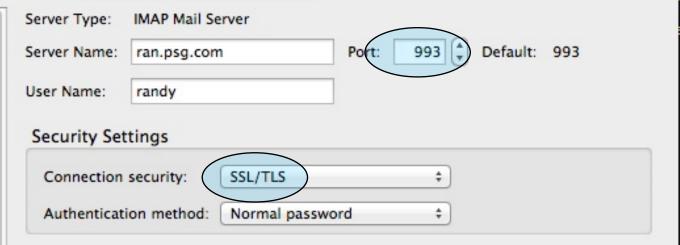
Authenticity of Servers Encrypted Transport

It's Easy

- · Do not use pop, it is in the clear
- Use pop3s, port 995 over TLS/SSL
- · Do not use imap, it is in the clear
- Use imaps, port 993 over TLS/SSL
- And they Authenticate the Servers using X.509 Certificates. CHECK IT!

Fetch Using IMAP4S





SMTPS over TLS/SSL

Do Not Use Unencrypted SMTP/25

Description:	psg.com	
Server Name:	psg.com	
Port:	465 Default: 465	
ecurity and	Authentication	

Authenticate Servers

- · Assume the Wire is Tapped
- · Assume Someone will Spoof Servers
- Know Your Servers' Root Certificates
- · Confirm Certificates on Configuration
- Choose Good Passphrases

Encrypt Critical EMail

· Assume the Wire is Tapped

Use a Personal X.509 PKCS#12 User
 Certificate with SMIME - T'Bird etc.

Use a PGP key with Enigma - T'Bird

I Tunnel & Use IMAPS



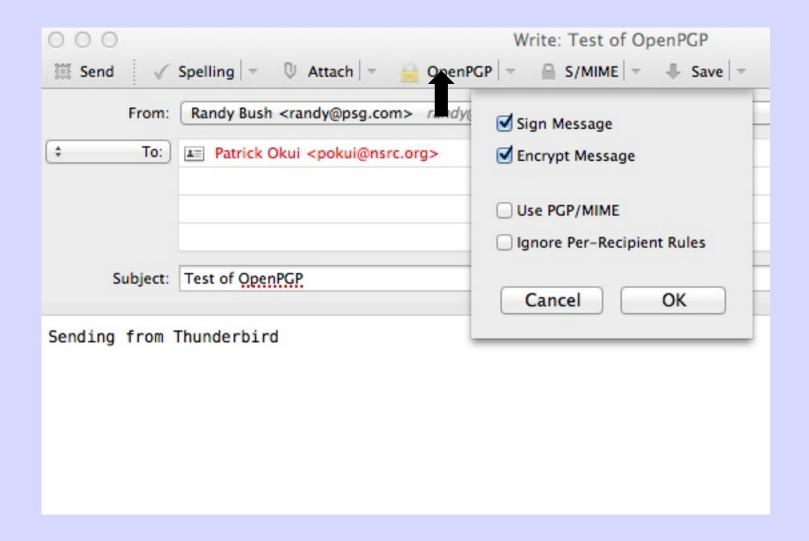
\$ ssh -N ssh.psg.com -p 443 -L 2525:127.0.0.1:25

Target Host Tunnel Port

Port on MacBook

Tunnel EndPoint

Using PGP



Of Course All Our Mail Goes To The NSA, GCHQ, PLA, ...

Or You Can Give It To The World's Largest Spy Agency Google / GMail