



OpenSSH & GnuPG: Secure Communications with Open Tools

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Atlanta Linux Fest
September 20, 2008



- Encrypted 'Remote Terminal'
- Authentication via: PAM, Public Key
- 'Tunneling' other data
 - Route around firewalls
 - Encrypt cleartext data streams
 - Any TCP connection can generally be tunneled
- Packages: openssh (-server, -client)
- Useful: seahorse



- Demo
 - Basic SSH Connection
 - Remote command invocation
 - Public Key Generation
 - Basic Tunnel
 - SOCKS-Style Tunnel
 - Specifying options in `.ssh/config`
 - Key Management with Seahorse



- Public Key Cryptography
 - Encryption
 - Signing
- Signing
 - E-Mail
 - Software Sources
 - Debian Packages, RPMs, etc.
- Package: gnupg or gpg
- Optional: seahorse or kpgp; enigmail



- Demo
 - CLI Key Generation
 - Seahorse Key Management
 - Enigmail Setup
 - CLI Signing
 - Verification
 - FireGPG



- ControlMaster Sockets
 - Multiple terminals, one connection
 - Only authenticate once
 - Fast: rsync, etc.
- SSH piping
 - Tar to move directories across network
- keychain/ssh-agent
- X11 Forwarding

Questions

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