

## Applications

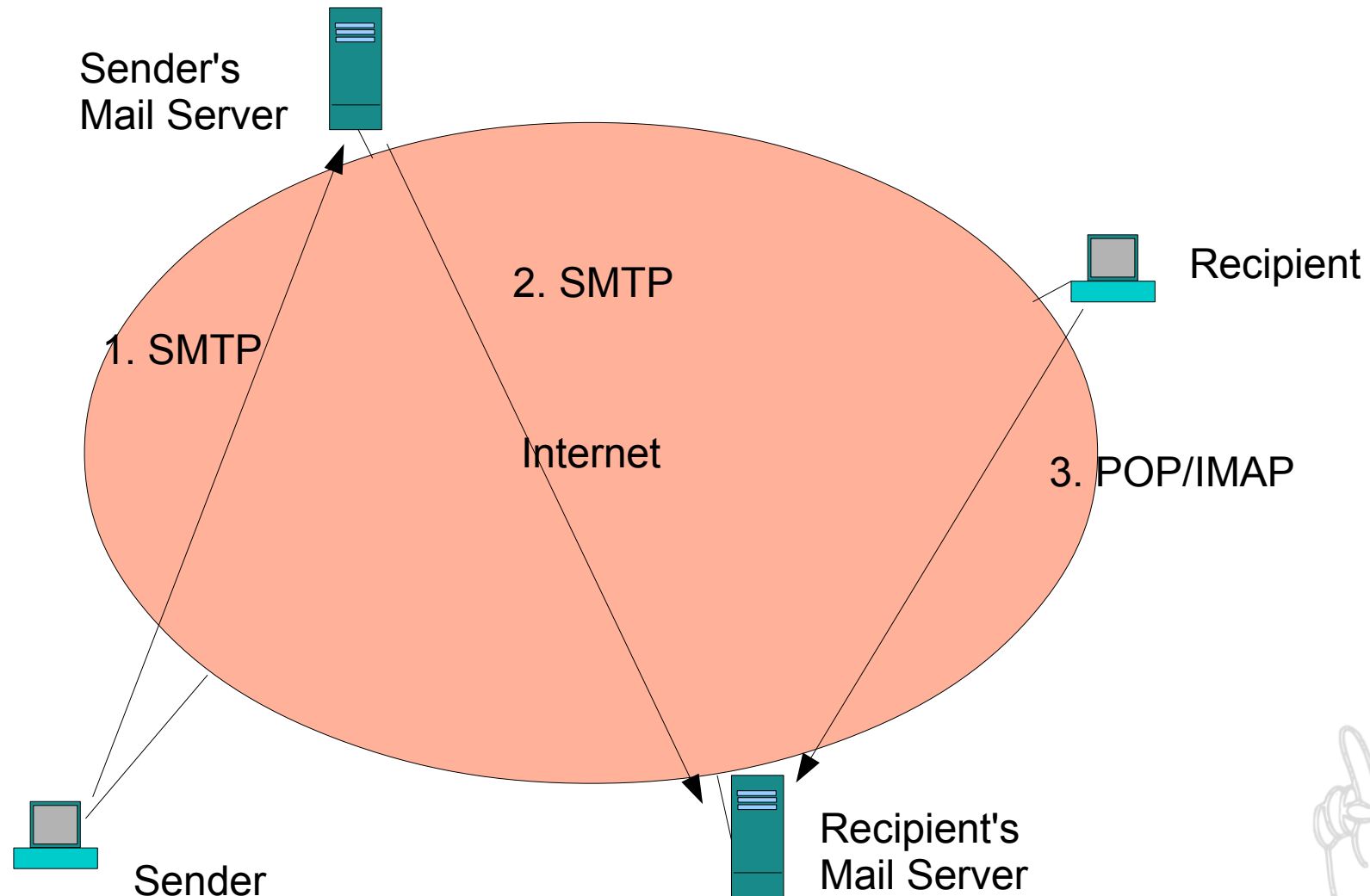


# Outline

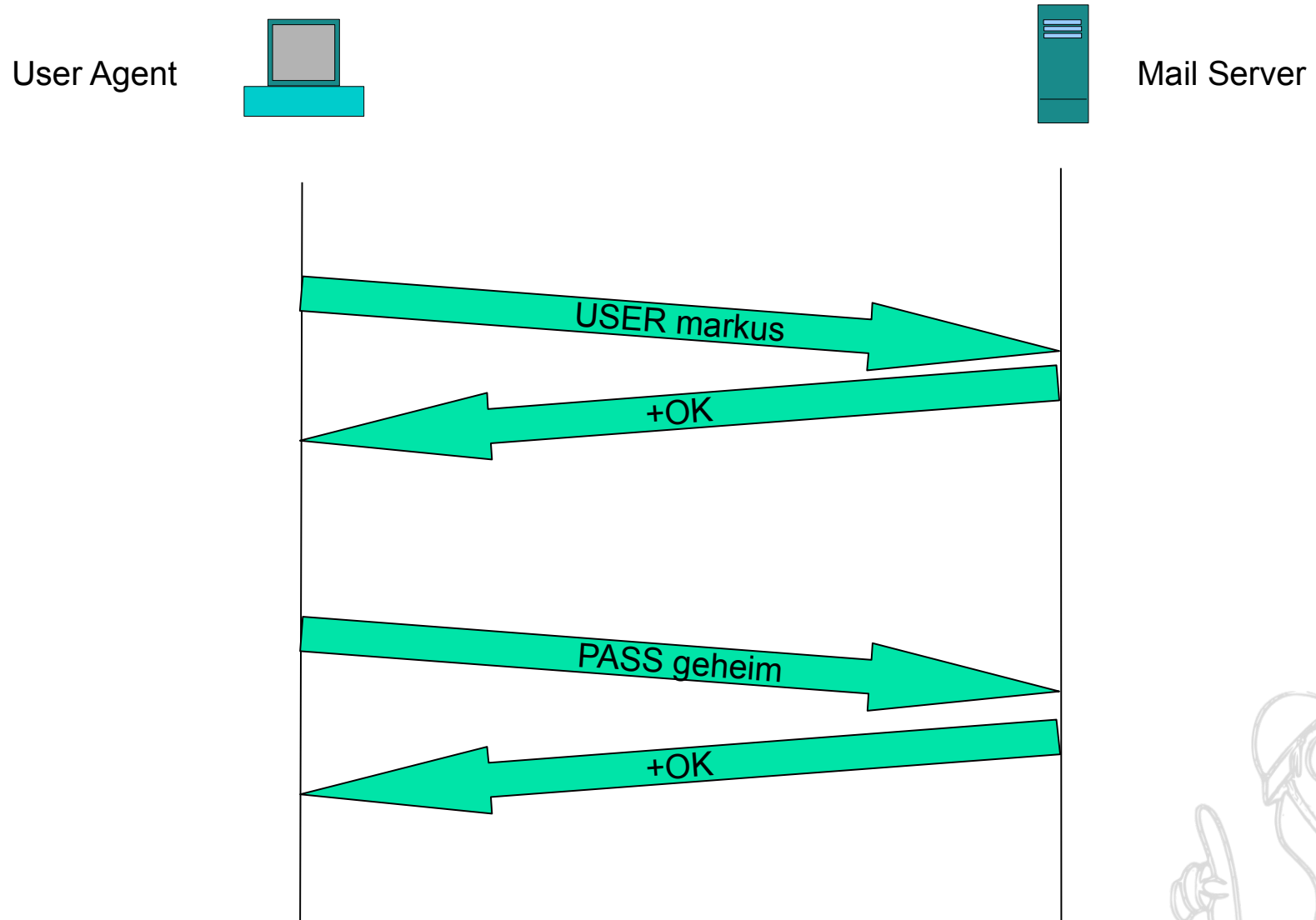
- Email
- SSH Port Forwarding
- World Wide Web: HTTPS using SSL/TLS



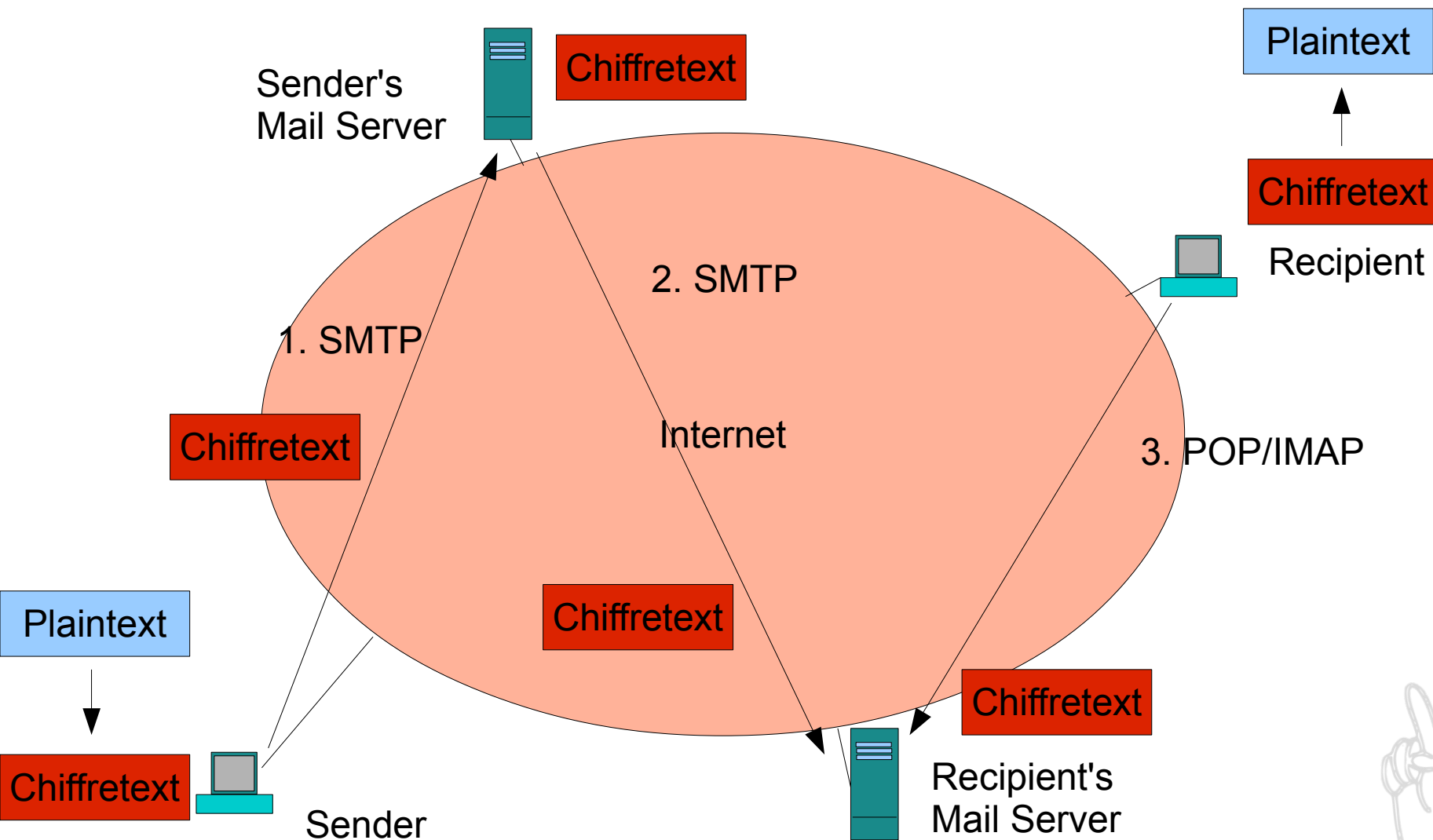
# Email



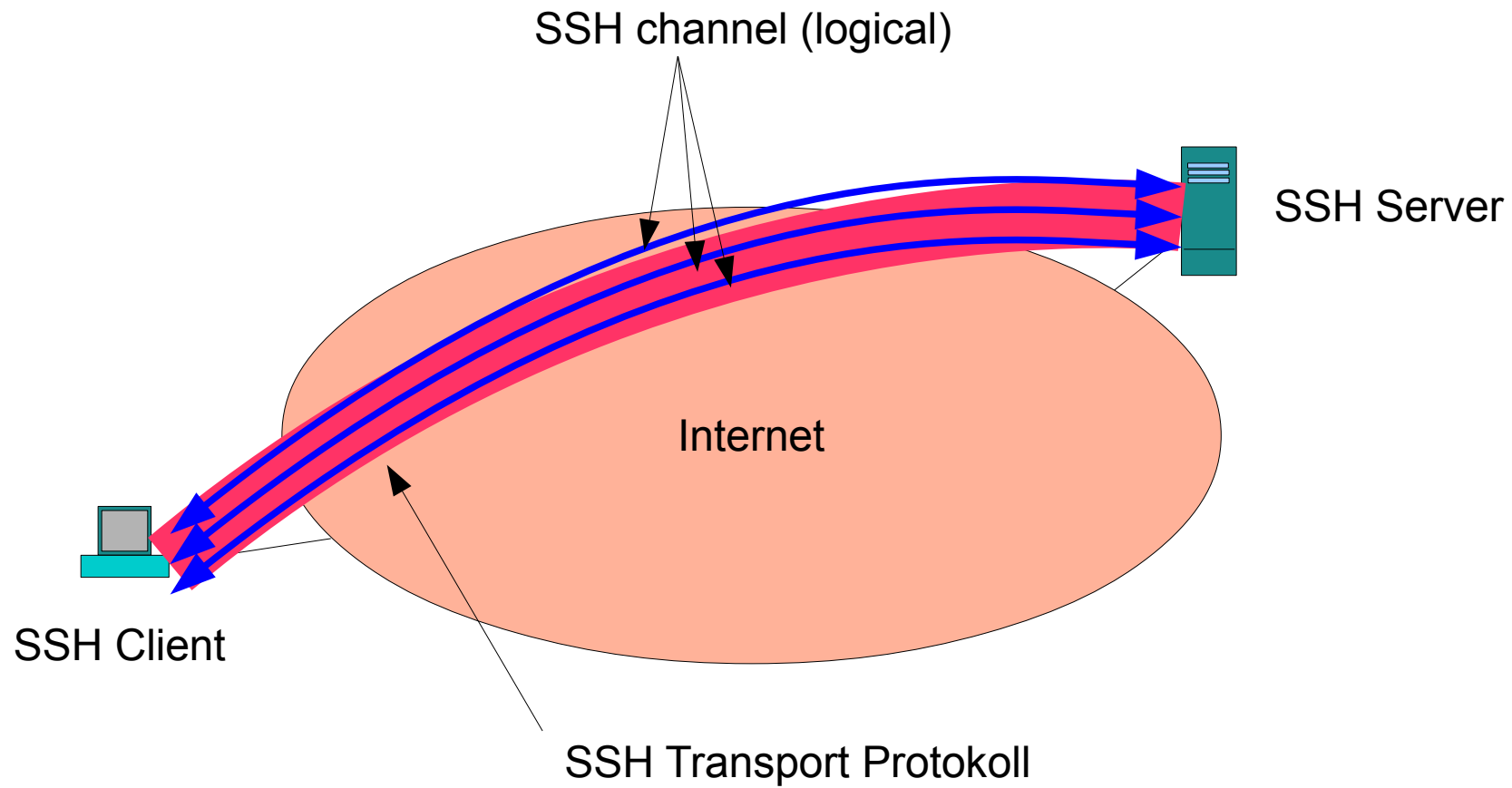
# POP-Authentication



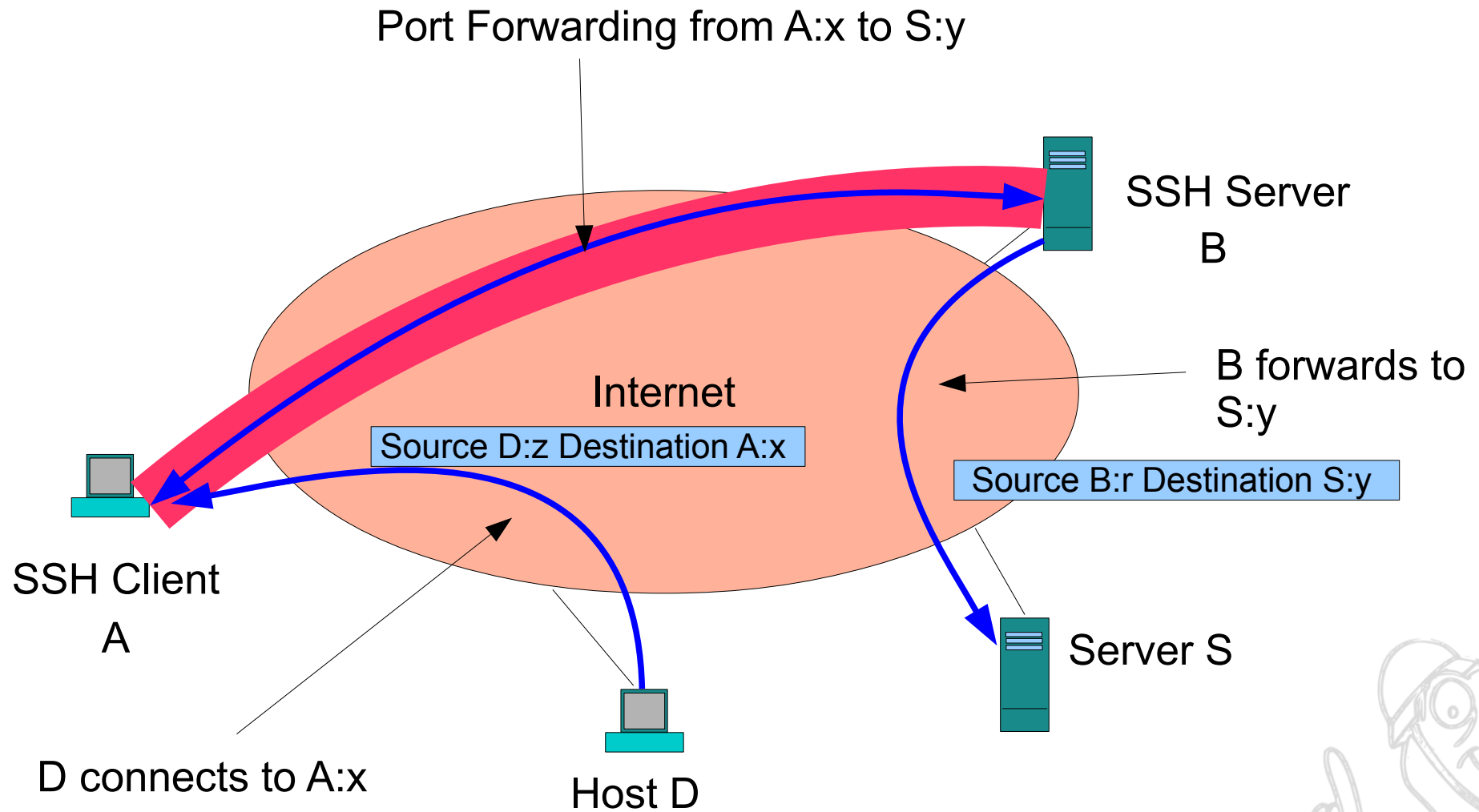
# Application Layer Encryption



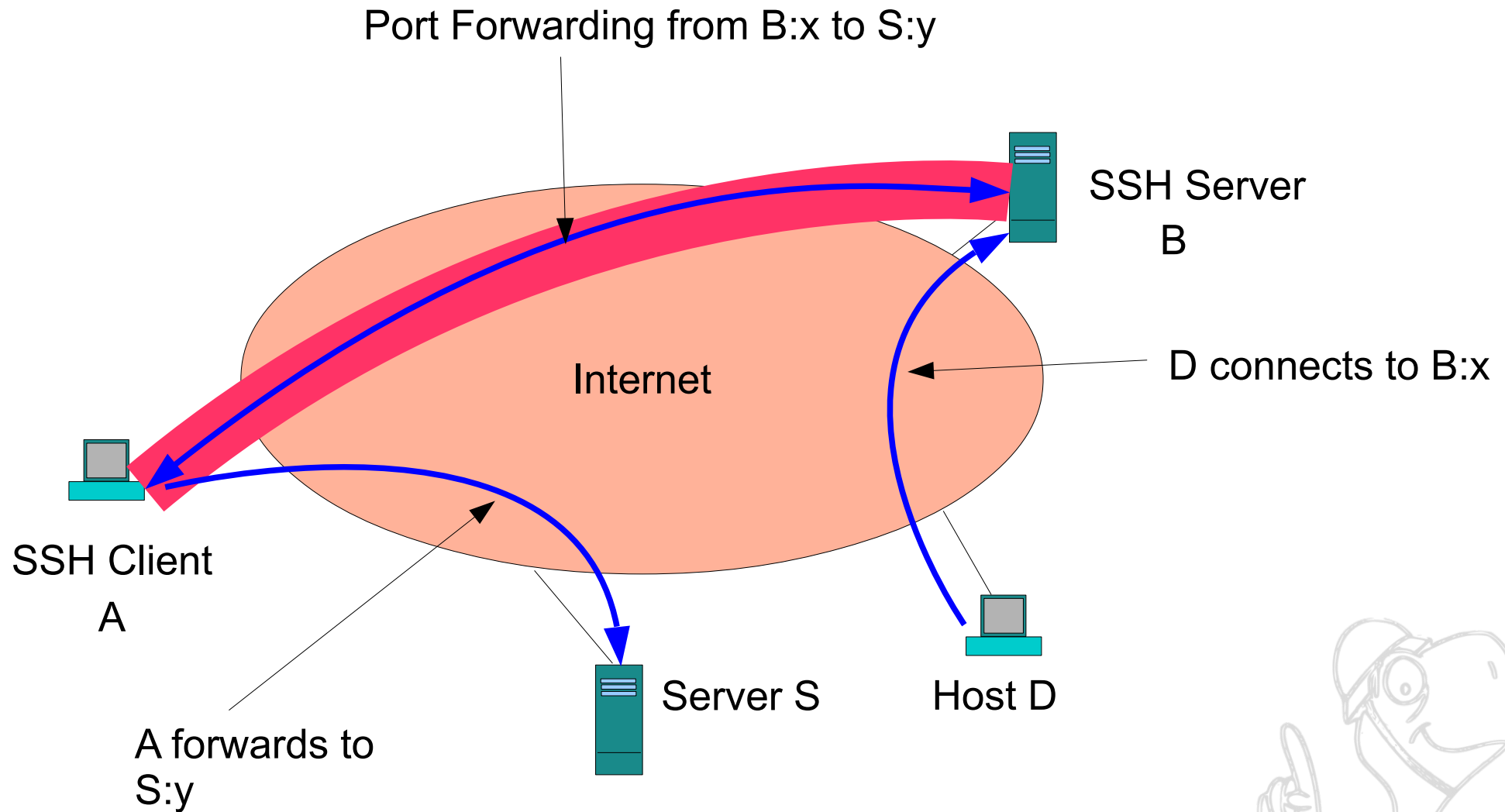
# SSH



# Local PFW

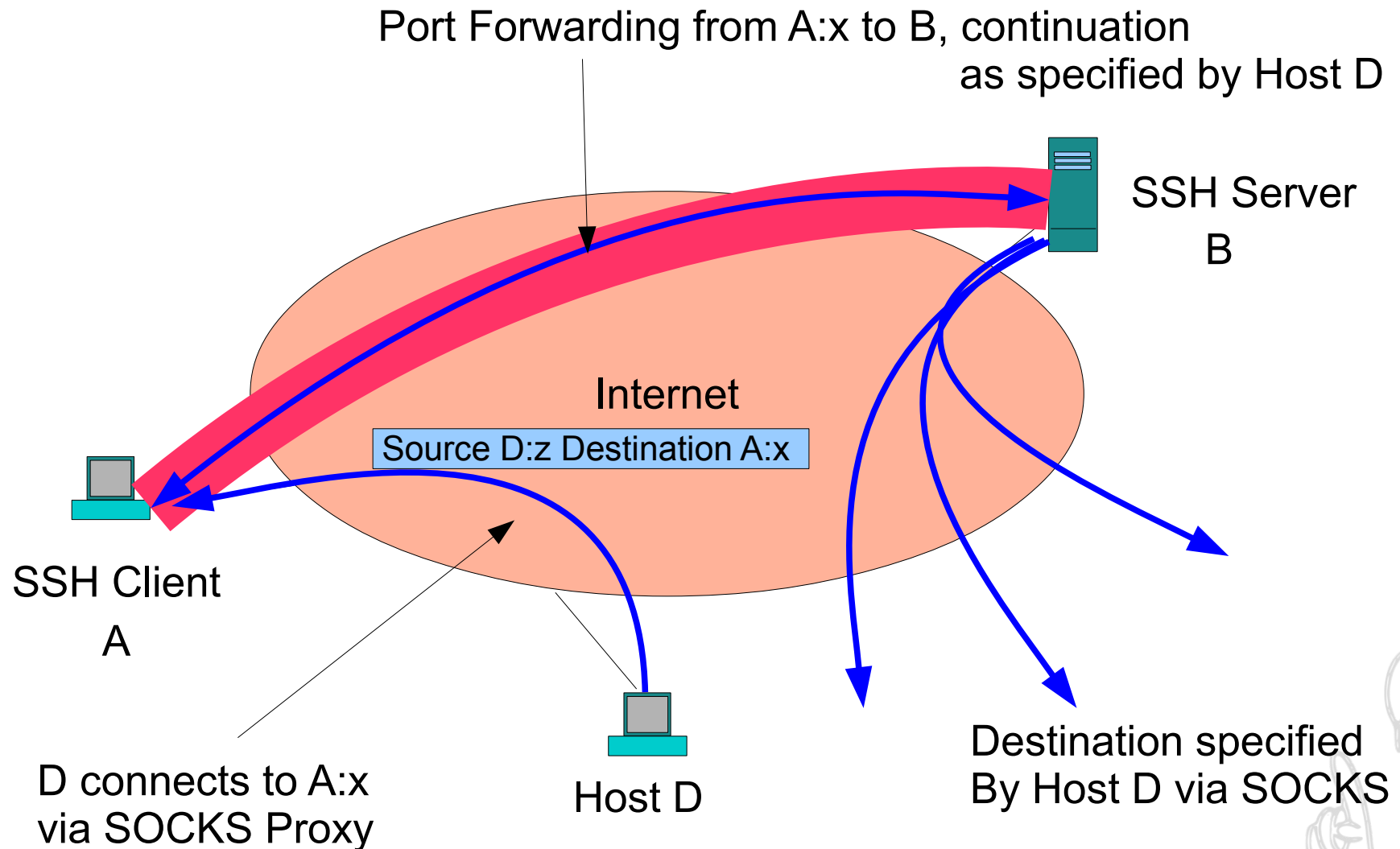


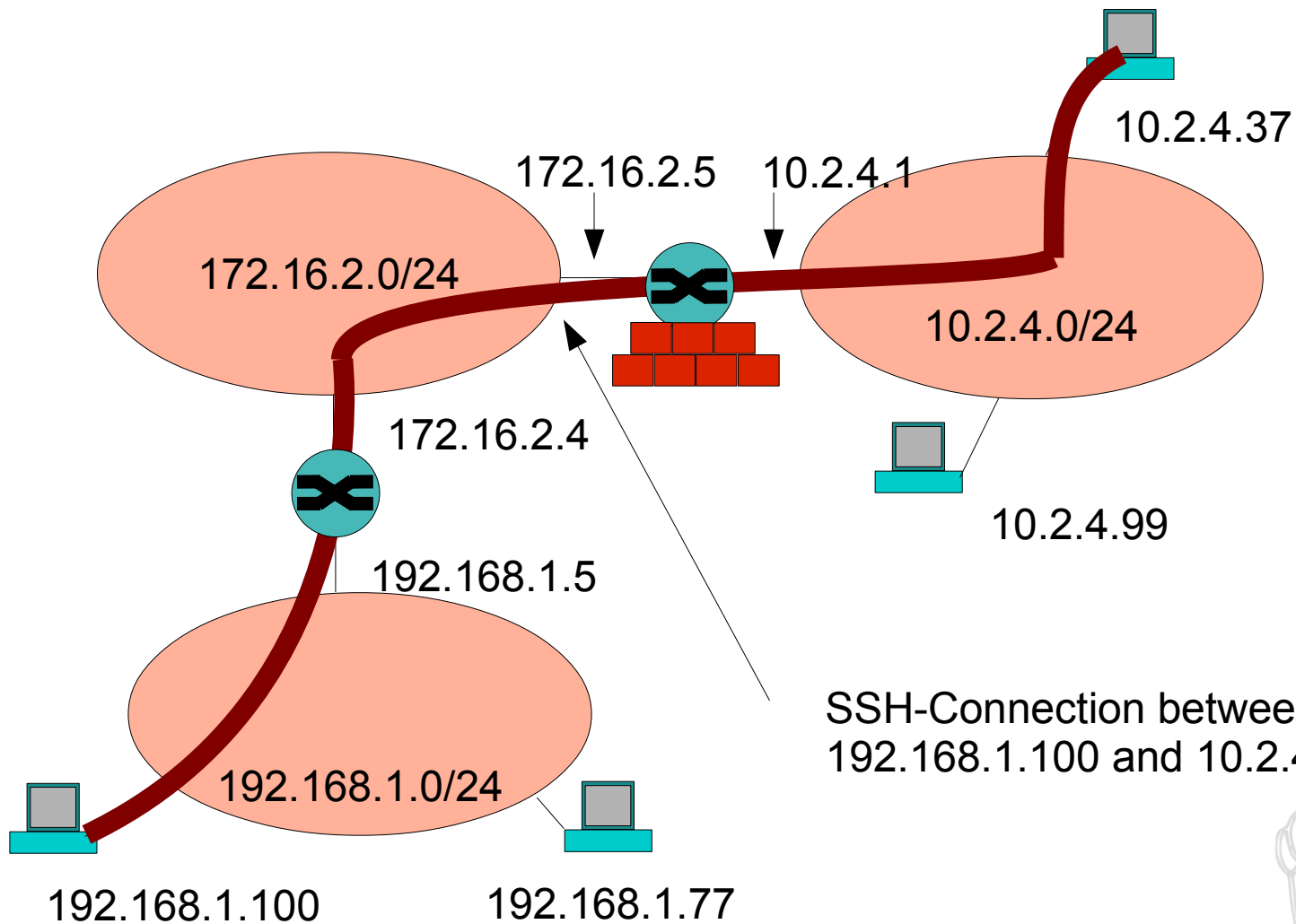
# Remote PFW





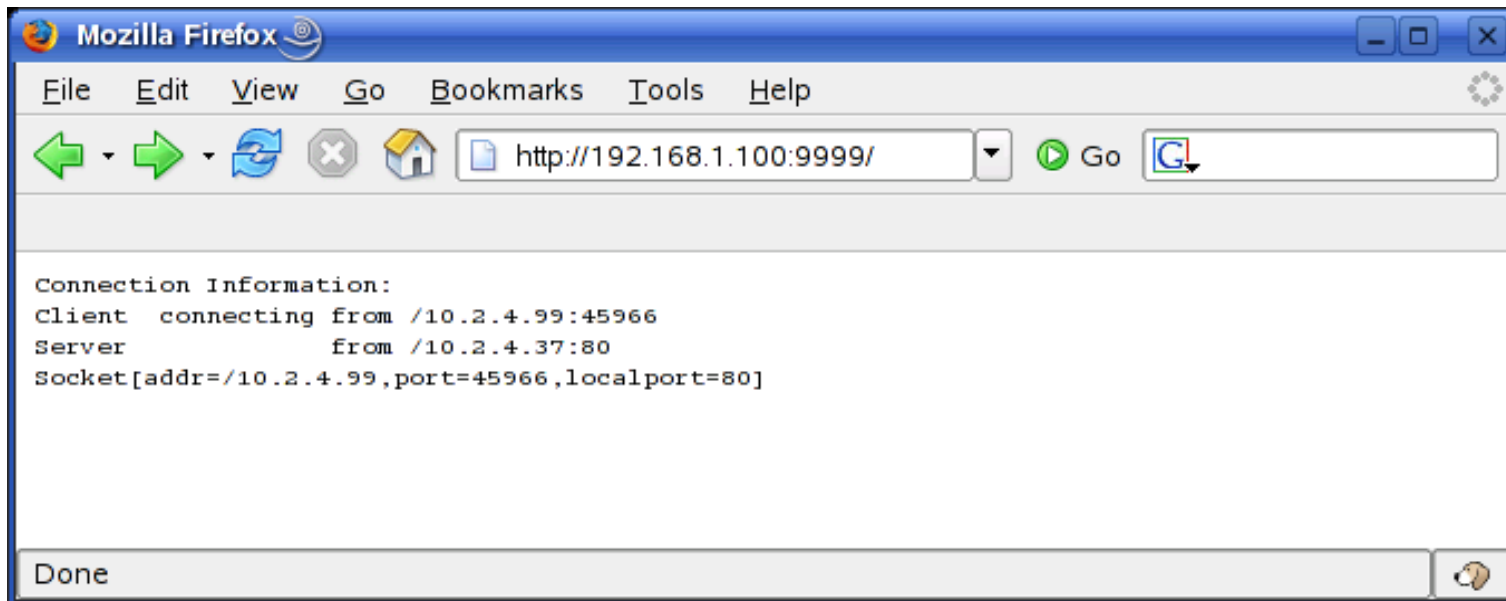
# Dynamic PFW





SSH-Connection between  
192.168.1.100 and 10.2.4.37





Connection Settings

Configure Proxies to Access the Internet

☐ Direct connection to the Internet

☐ System setting

☐ Auto-detect proxy settings for this network

☒ Manual proxy configuration:

HTTP Proxy:  Port:

☒ Use this proxy server for all protocols

SSL Proxy:  Port:

FTP Proxy:  Port:

Gopher Proxy:  Port:

SOCKS Host:  Port:

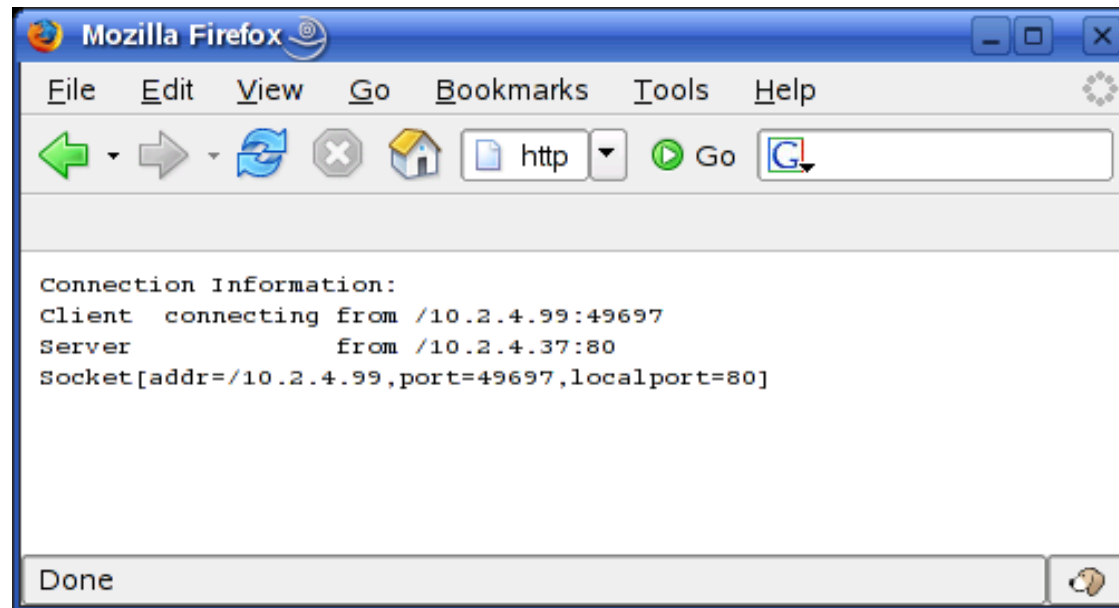
☒ SOCKS v4 ☐ SOCKS v5

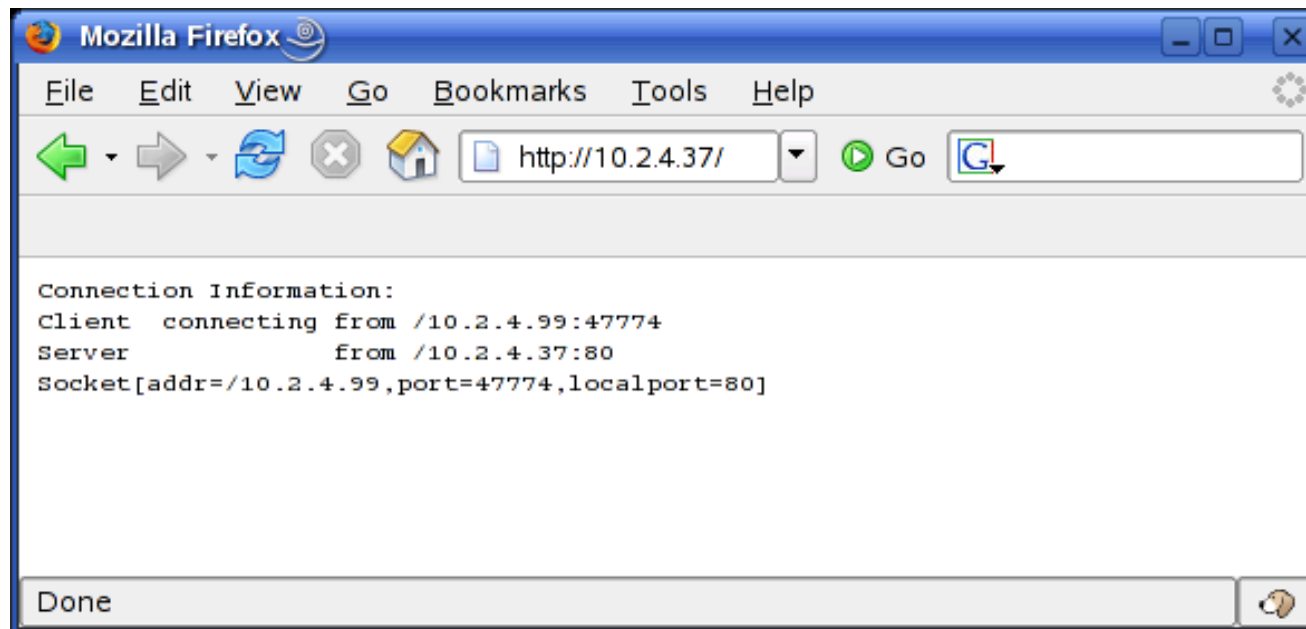
No Proxy for:

Example: .mozilla.org, .net.nz, 192.168.1.0/24

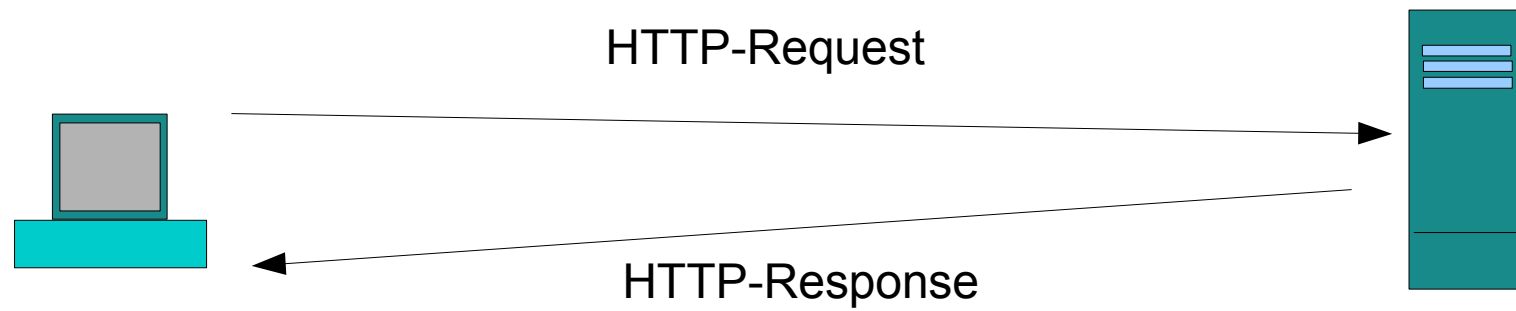
☐ Automatic proxy configuration URL:



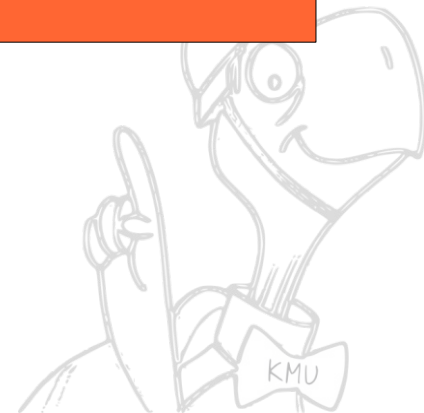
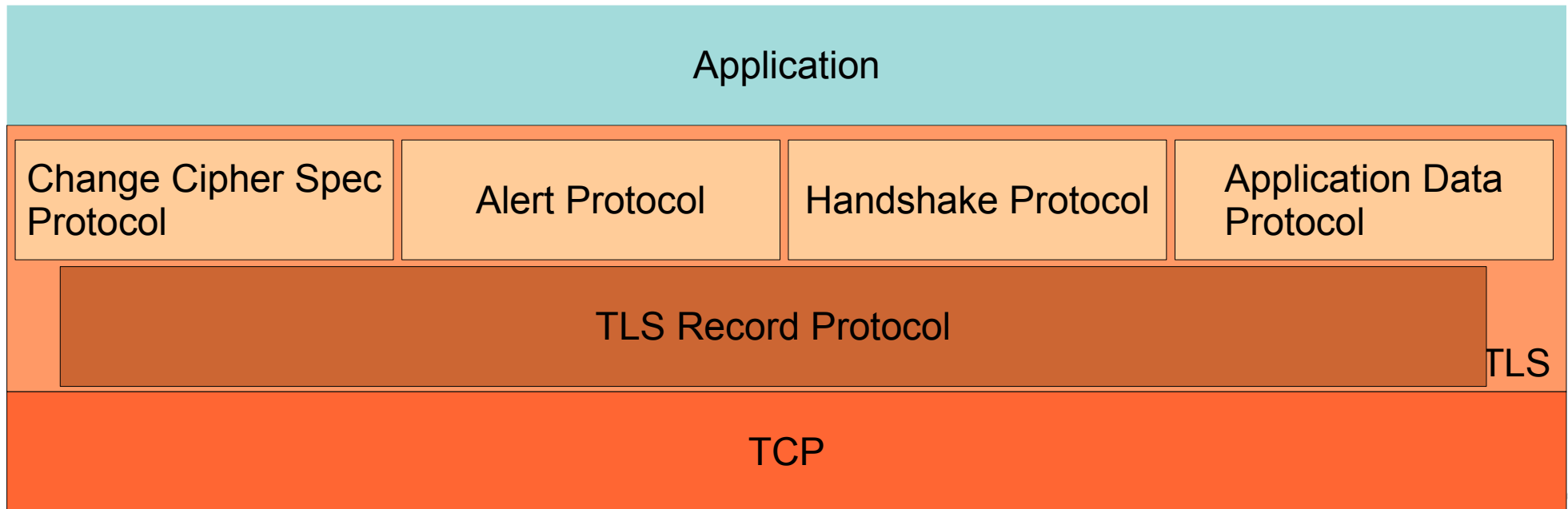




# HTTP



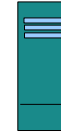
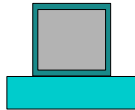
# TLS/SSL





# SSL/TLS: Handshake

Client



Client Hello contains

- Protocol Version
- Timestamp
- Session ID
- Cipher Suites
- Compression Methods

Server Hello contains

- Protocol Version
- Session ID
- Cipher Suite
- Compression Method

