# Working With TFTP

### Simple UDP based file transfer protocol

## Wikipedia: http://en.wikipedia.org/wiki/Trivial\_File\_Transfer\_Pr otocol

RFC 1350

(all of this means it's quick and dirty...)

## Preparing the network on FreeBSD

On your Laptop: Do you have a VNC Client? Download a VNC client (if you don't have one already)

Connect to host ts01.sie.ws.afnog.org on port 59xx (Your group )

Add network configuration using GUI

Check the Address plan

## Preparing the network on the router

Download a Telnet client (if you don't have one already)

Connect to host ts01.sie.ws.afnog.org on port 20xx

You will connect to the console port of a brand new Cisco router.

Configure your interfaces: configure terminal interface Gi 0/0 ip address 196.200.22x.x 255.255.25x.x

Ping your PC to test.

## Install and configure TFTP in Ubuntu

Connect to host ts01.sie.ws.afnog.org on port 59xx

#### install tftpd-hpa

sudo apt-get install tftpd-hpa

#### edit the config file

sudo vim /etc/default/tftpd-hpa

### Give read/write permissions to /var/lib/tftpboot

Sudo chmod 666 /var/lib/tftpboot

sudo service tftpd-hpa restart

## Using TFTP to manage your router

router# copy start tftp

router# copy tftp start

router# copy flash tftp

router# copy tftp flash

router# copy run tftp

## Using TFTP to manage your router

#### router# copy start tftp

Copies your startup configuration to the tftp server. This is typically what you will use to backup your (router) saved configuration to an external tftp server.

#### router# copy tftp start

Copies your configuration from a tftp server, to your router's startup configuration. Useful for restoring configuration from an external backup.

## Using TFTP to manage your router

When would you use the following:

router# copy flash tftp

router# copy tftp flash

router# copy run tftp

# Things to remember

Keep your server secure!

- Your TFTP server will typically have stored router configs and IOS images.
- Therefore it's important that you restrict access to your server.
- Setup integrity checking (even simple md5)

For large file transfers, consider using SCP/RCP for more reliable transport.