

Working With TFTP

Basics of TFTP

- Simple file transfer protocol
- Wikipedia:
 - http://en.wikipedia.org/wiki/Trivial_File_Transfer_Protocol
- RFC 1350

Enabling TFTP in FreeBSD

Find, and uncomment the appropriate line in `/etc/inetd.conf`

```
# vi /etc/inetd.conf
```

Restart `inetd`, enabling TFTP

```
# /usr/sbin/inetd &
```

Check that TFTP is actually running. (hint: it runs on port 69)

```
# netstat -an | grep udp4
```

Enabling TFTP in FreeBSD

Create a directory for tftp to operate with

```
# mkdir /tftpboot
```

If you're going to write to a config file, the file needs to exist, and you need to have write permission to it; 'touch' will create the file for you

```
# touch /tftpboot/sie-config
```

Allow world-write permission to the file you've created

```
# chmod 666 /tftpboot/sie-config
```

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`

Directory Structure

TFTPd will use the base directory that you specified in `inetd.conf`. In most cases that is */tftpboot/* (hint: look at the directory you created).

When you reference this by reading/writing to `tftp`, you do not need to specify the base directory when asked for the destination.

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

Other Alternatives?

router#conf network ?

ftp: URL of source file

http: URL of source file

https: URL of source file

pram: URL of source file

rcp: URL of source file

scp: URL of source file

tftp: URL of source file

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