

Working With TFTP



Basics of TFTP

Simple UDP based file transfer protocol

Wikipedia:

http://en.wikipedia.org/wiki/Trivial_File_Transfer_Protocol

RFC 1350

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

Enabling TFTP in FreeBSD

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

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

(re)Start inetd, enabling the TFTP daemon

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

Check that TFTP is actually running.

```
# netstat -an | grep "*.69"
```

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
```

BE AWARE THAT THIS IS DANGEROUS !

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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