

26/10/2018

Redes 2

- TFTP: es un protocolo para transferencia de archivos, implementado en el tope de los protocolos UDP/IP. Usando el puerto 69.

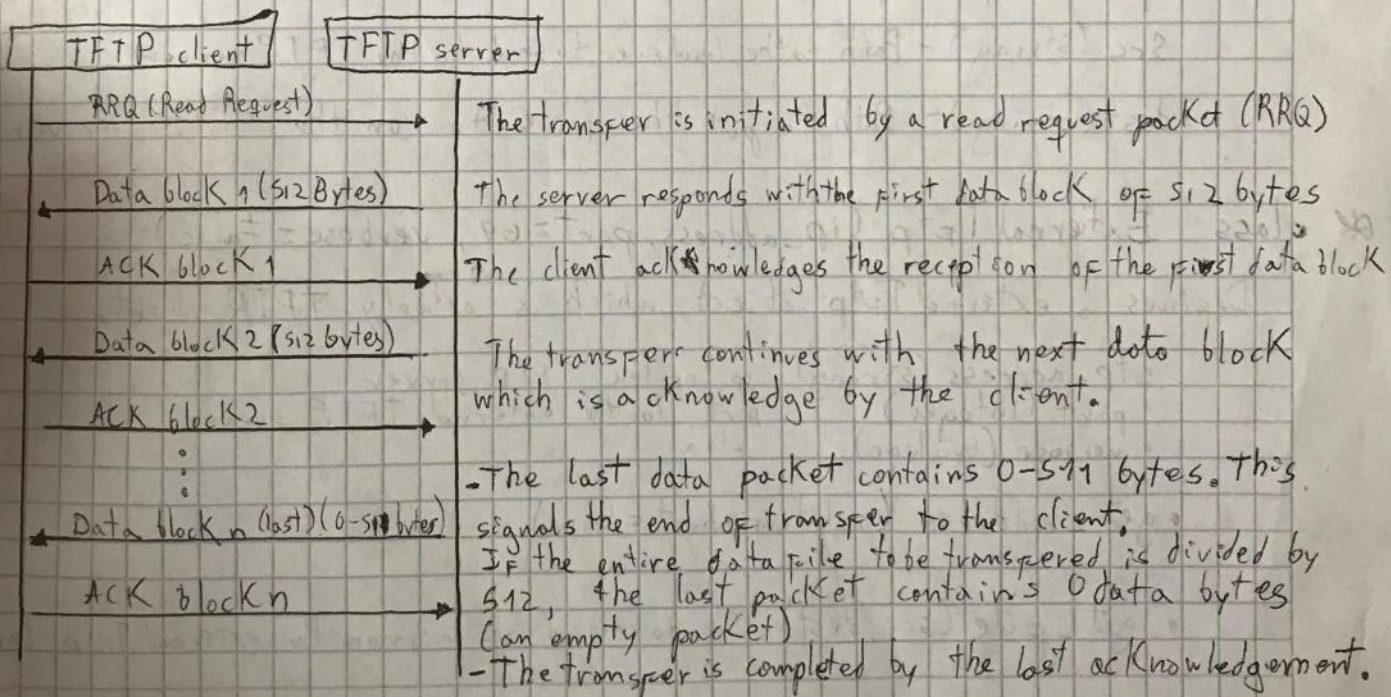
- Trivial File Transfer Protocol:

- Formally: Request for Comments (RFC) 1350

→ Serva cuando la autenticación del usuario y la visibilidad del directorio no son requeridos.

La simplicidad radica en que solo tiene 6 tipos de mensajes y solo permitiendo el envío de un mensaje a la vez.

TFTP RFC 1350



class InternalTftp : internally serves ^{file} files using the trivial transfer Protocol

class InternalTftp (ip-address = None, port = 0, verbose = False)

- ip-address (string) ip address for the internal TFTP server to use
- port (integer) port for the internal TFTP server
- verbose (boolean) flag to turn on additional messaging

- `get_address (relative_host=None)`
returns the IPv4 address of this server.

- `get_file (src, dest)`

Download a file from the tftp server to local_path

`src (string)` - Source file path on the ~~tftp~~ tftp-server

`dest (string)` - Destination path (on your machine) to copy the TFTP file

- `Kill()`

Kills the InternalTftp Server

- `put_file (src, dest)`

upload a file from src to dest on the tftp server (path)

`src (string)` - Path to the local file to send to the TFTP server

`dest (string)` - Path to put the file to on the TFTP Server

* `class ExternalTftp (ip_address, port=69, verbose=False)`

Defines a externalTftp object, which is actually TFTP client.

- `ip_address (string)` ip of the TFTP server
- `port (integer)` port to the external TFTP server
- `verbose (boolean)` flag

- `get_address (relative_host=None)`

- `get_file (src, dest)` download a file from the external Tftp Server

- `put_file (src, dest)` uploads a file to the tftp server

DNS uses UDP or TCP as in layer 4

Manual TFTP

TFTPy es una implementación de TFTP ^{solamente} en python.

Requerimientos: Está en Python 2 pero lo soporta muy bien Python 3

Instalación: sudo pip3 install tftpy

Cliente: (uno muy simple)

```
import tftpy
client = tftpy.TftpClient('tftp.digital torque.ca', 69)
client.download('remote-filename', 'local-filename')
```

Servidor: (uno muy simple)

```
import tftpy
server = tftpy.TftpServer('/tftpboot')
server.listen('0.0.0.0', 69)
```