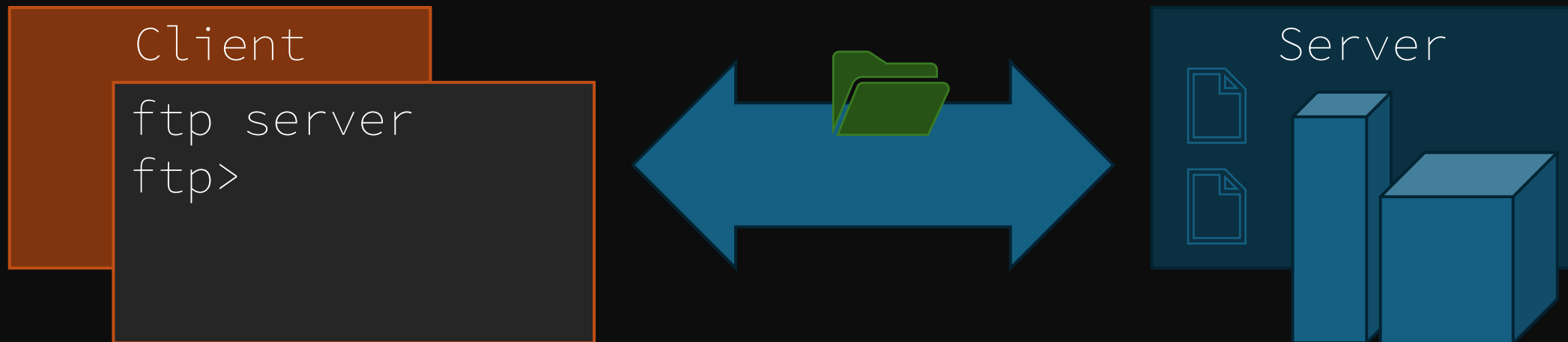"no matter where you are, everyone is always connected"

FTP Config

What is FTP?

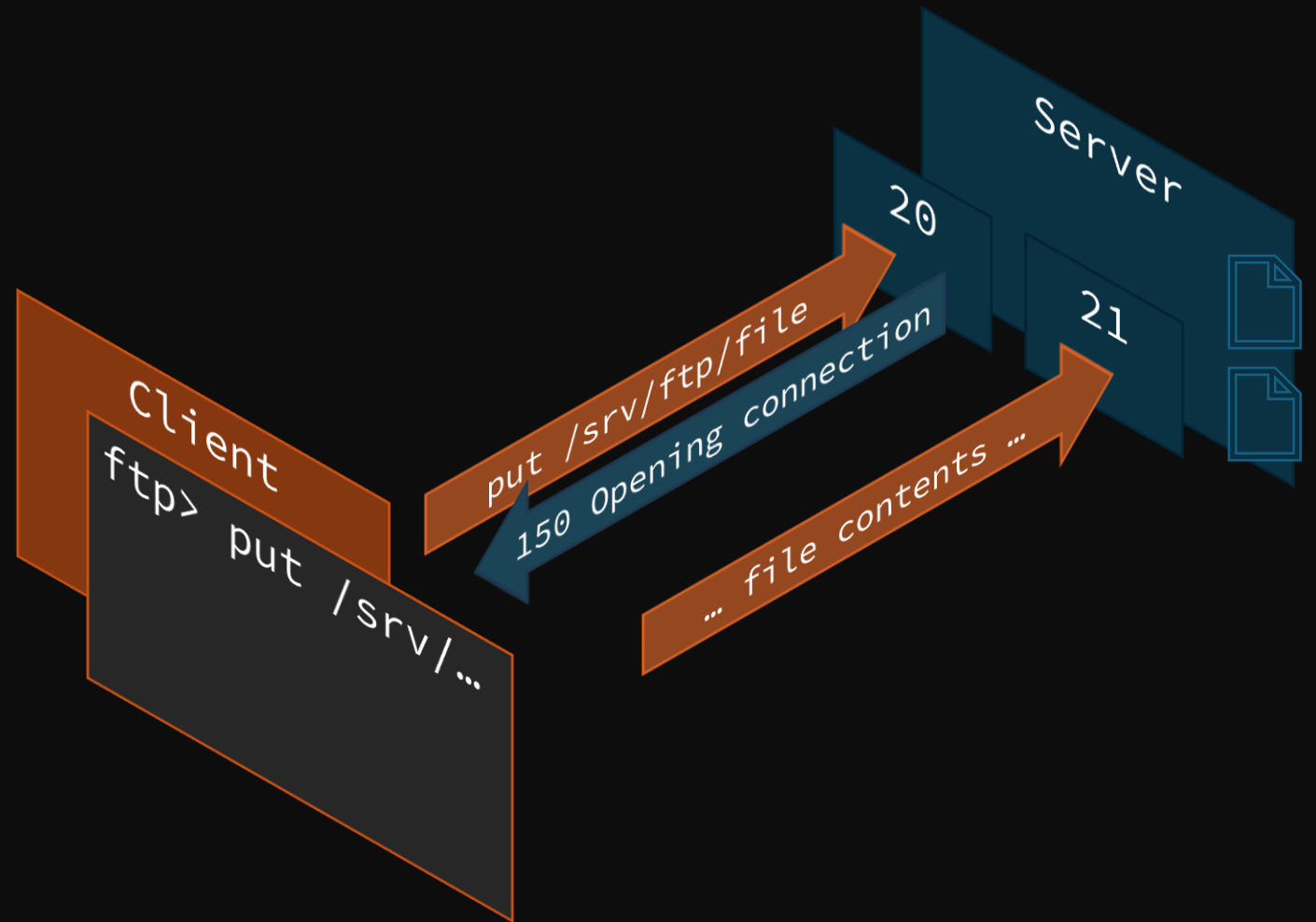FTP stands for File Transfer Protocol. It is a standard that lets us transfer files between computers in a network.

Client

```
ftp server
ftp>
```

Server

How So?

FTP uses two ports to communicate over the network: one for commands and one for data transfer.

Clients log in to the FTP server and interface with either GUI or command line, and the server responds with status codes.

Connecting to an FTP Server

```
# ftp 10.0.0.1
      server
      address

Connected to 10.0.0.1.
220 (vsFTPd 3.05)
200 Always in UTF8 mode.
.

.

.

221 Goodbye.
```

One can install an FTP client to download and upload files to an FTP server.

FTP Commands

```
ftp> cd [directory]
ftp> ls
ftp> pwd

ftp> get [file] [destination]
ftp> put [file] [destination]
```

You can use certain commands to move around files in FTP. Some of which are similar to standard Linux commands.

Note the *get* and *put* commands which allow you to upload and download files.

FTP Modes

```
ftp> type ascii
ftp> type binary
```

There are two upload/download modes which can be set using the *mode* command.
- Use *ascii* mode for text files
- Use *binary* mode for non-text files

Try It

I have an FTP server at 10.x.x.x.

Find the README2 file in my home directory and download it. What does it say?

The FTP Server

vsftpd is the Very Secure FTP Daemon. This is the program that we use to run an FTP server and accept commands for downloading and uploading.

This is the program that you will be configuring. We will now look at some secure configuration values for *vsftpd*.

Configuration

📄 in file */etc/vsftpd.conf*

```
listen=NO
listen_ipv6=NO
anonymous_enable=NO
allow_anon_ssl=NO
anon_mkdir_write_enable=NO
anon_upload_enable=NO
ssl_enable=YES
local_enable=YES
chroot_local_user=YES
chroot_list_enable=YES
```

Configuration

xferlog_enable=YES
xferlog_file=vsftpd.log
xferlog_std_format=NO
anon_world_readble_only=YES
passive_promiscuous=NO
pasv_enable=YES
port_promiscuous=NO
port_enable=YES
hide_ids=YES
log_ftp_protocol=YES

Find, replace, or add the following lines in

/etc/vsftpd.conf

The FTP Blacklist

root
daemon
bin
uucp
news
sebastian
alan

From ftpusers(5)
manual page:
    The text file
    ftpusers contains a
    list of users that
    may not log in
    using the File
    Transfer Protocol
    (FTP) server
    daemon.

Make sure to add or
remove users here as
needed.