FTP

haha gottem ok

AMONG US

unless you play PC u scrub

BRAWL STARS

made by the ppl behind Boom Beach

FORTNITE

ok boomer nice

VALORANT

CS:GO for noobs darn :((

F 2 P   Free To Play

What is FTP? Let alone, what is a file server?

FTP (File Transfer Protocol) is a way to transfer files through different computers on a network

- user requests a file and server sends it (or user sends a file)
- default port is 21
  - Clients use port 20

Example Server

Try accessing **ftp.mozilla.org** in your browser!

Let's see what the Nine
Tails has

Index of /

Type	Name	Size	Last Modified
Dir	pub/		
File	favicon.ico	304	10-Nov-2015 23:54

Types of FTP servers

The original FTP is kinda insecure, (gee I wonder why) so we got new and better ones, like:

- vsftpd (Very Secure FTP Daemon)
- pure-ftpd (Pure FTP Daemon)
- pro-ftpd (another one that has popped up)

that have higher security features to securely encrypt data that is sent

Pause

It says "Index of /". Does that mean we have access to the root directory?

- wouldn't that kinda be not secure lol

Enter "chroot jail" (What does chroot look like)

- folder that makes it seem like you are in the root directory (can't go outside cause nothing is past the /)
- Why would we need this?

IT'S CONFIG TIME

General Steps

1. **Install** the FTP service that you need (based on README or just for personal use)

2. **Allow** FTP through the firewall (what port #)
   - why do we need to do this?

3. **Create** the local users to access the FTP server

4. **Configure** the .conf file (where?)

5. **Restart** the service to save the configs

Let's start w/ vsftpd

sudo apt install vsftpd

Oh shoot what's the command to allow FTP through UFW

…

go edit config file /etc/vsftpd/vsftpd.conf

VSFTPD Configs

anonymous_enable=NO

- ensures that only local users can access the server (see firefox)
- anonymous is bad

local_enable=YES

- allows local users to access (self-explanatory)

local_umask = 133

- Sets secure permissions on the server
- Think of it like this: 777 - [umask] = actual permission of the files

Cont.

chroot_local_user=YES

-    restricts connected users to view only their home directories in the server

write_enable=YES

anon_mkdir_write_enable=NO

anon_other_write_enable=NO

chmod_enable=NO

-    allows users to add/delete stuff

ssl_enable=YES

-    Secure Socket Layer Protocol prevents plaintext from being sent. Yippee!

THERE ARE MORE configs in the file so check em out!