

Challenge 06

Flag: -

Ran a file command and saw that it's a disk image file. However, I couldn't mount it. Seems like the image is corrupted.

```
(base) ntintern@ntuintern-VirtualBox:~/Downloads$ file PATIENT0
PATIENT0: DOS/MBR boot sector, code offset 0x52+2, OEM-ID "NTFS  ", sectors/cluster 8, Media descriptor 0xf8, sectors/track 0, FAT (1Y bit by descriptor); NTFS, physical drive 0x60c0907, sectors 6143, $MFT start cluster 4, $MFTMirror start cluster 383, bytes/RecordSegment 2^(-1*246), clusters/index block 1, serial number 02d0b33f10f0e9ef2
```

Used FTK Imager to look for any information inside the file. Found an index.html and a broken.pdf.

The screenshot shows the FTK Imager interface. On the left, the 'Evidence Tree' displays the file structure of 'PATIENT0', including a 'NONAME [NTFS]' folder with subfolders like '\$BadClus', '\$Extend', '\$Secure', '\$UpCase', and '[unallocated space]'. On the right, the 'File List' pane shows a table of files within the image.

Name	Size	Type	Date Modified
\$Bitmap	1	Regular File	5/10/2019 9:09:...
\$Boot	8	Regular File	5/10/2019 9:09:...
\$I30	4	NTFS Index All...	5/10/2019 9:14:...
\$LogFile	512	Regular File	5/10/2019 9:09:...
\$MFT	67	Regular File	1/1/1601
\$MFT.FileSlack	9	File Slack	
\$MFTMirr	4	Regular File	5/10/2019 9:09:...
\$RAND	1,536	Regular File	5/10/2019 9:11:...
\$Secure	1	Regular File	5/10/2019 9:09:...
\$UpCase	128	Regular File	5/10/2019 9:09:...
\$Volume	0	Regular File	5/10/2019 9:09:...
broken.pdf	253	Regular File	5/10/2019 9:14:...
index.html	1	Regular File	5/10/2019 9:14:...

The broken.html tells us that the Blood Pressure Barometer is broken and asked us to fix it. It's most likely hinting us that the Bios Parameter Block is corrupted, and we have to fix it to continue.

The index.html contains "The original BPB reading is Checked and Re-Checked 32 times!". This hints something related to CRC32? Cyclic Redundancy Check?