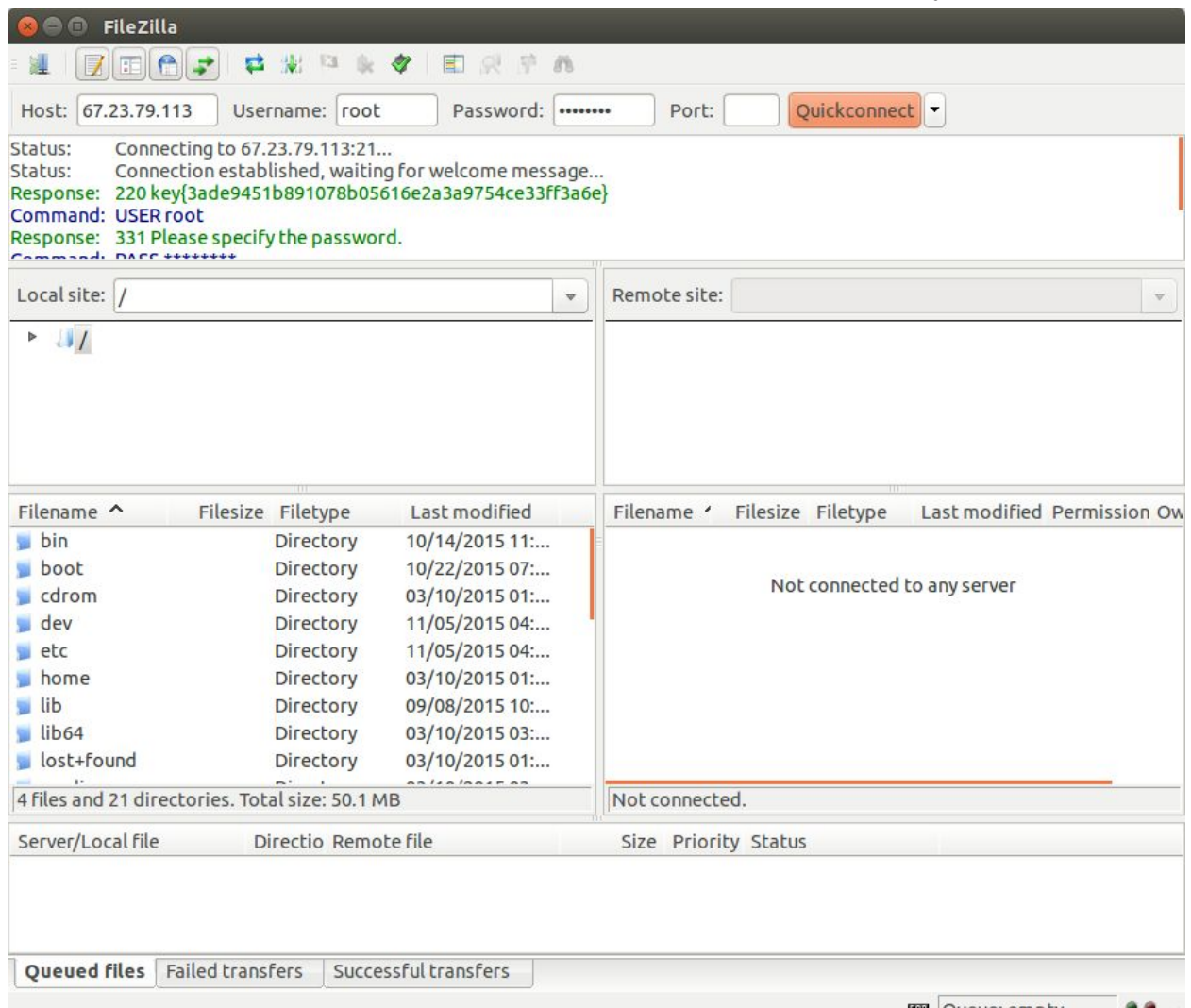


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CTF Team 4 Write-Up

Unnecessary service: Ran "nmap 67.23.79.113". Noticed that port 21 (FTP) was open.
Attempted to connect to the server via filezilla. The response contained a key.



Searching the binary: Noticed the site was running wordpress and looked at ctf/wp-content/uploads folder. Found 8 jpgs of Uncle Herbert. Downloaded these and searched the binary by running "xxd uncleherbert*.jpg | grep key" on each. Got a match on uncleherbert2.jpg which was a key.

output.txt (~/Downloads) - gedit

Open Save Undo

output.txt x

| | | | | | | | | | |
|----------|------|------|------|------|------|------|------|------|------------------|
| 0000000: | ffd8 | ffe0 | 0010 | 4a46 | 4946 | 0001 | 0100 | 0001 |JFIF..... |
| 0000010: | 0001 | 0000 | ffe1 | 09ce | 6874 | 7470 | 3a2f | 2f6e |http://n |
| 0000020: | 732e | 6164 | 6f62 | 652e | 636f | 6d2f | 7861 | 702f | s.adobe.com/xap/ |
| 0000030: | 312e | 302f | 003c | 3f78 | 7061 | 636b | 6574 | 2062 | 1.0/.<?xpacket b |
| 0000040: | 6567 | 696e | 3d22 | efbb | bf22 | 2069 | 643d | 2257 | egin="..." id="W |
| 0000050: | 354d | 304d | 7043 | 6568 | 6948 | 7a72 | 6553 | 7a4e | 5M0MpCehiHzreSzN |
| 0000060: | 5463 | 7a6b | 6339 | 6422 | 3f3e | 203c | 783a | 786d | Tczkc9d"?> <x:xm |
| 0000070: | 706d | 6574 | 6120 | 786d | 6c6e | 733a | 783d | 2261 | pmeta xmlns:x="a |
| 0000080: | 646f | 6265 | 3a6e | 733a | 6d65 | 7461 | 2f22 | 2078 | dobe:ns:meta/" x |
| 0000090: | 3a78 | 6d70 | 746b | 3d22 | 584d | 5020 | 436f | 7265 | :xmptk="XMP Core |
| 00000a0: | 2035 | 2e34 | 2e30 | 223e | 203c | 7264 | 663a | 5244 | 5.4.0"> <rdf:RD |
| 00000b0: | 4620 | 786d | 6c6e | 733a | 7264 | 663d | 2268 | 7474 | F xmlns:rdf="htt |
| 00000c0: | 703a | 2f2f | 7777 | 772e | 7733 | 2e6f | 7267 | 2f31 | p://www.w3.org/1 |
| 00000d0: | 3939 | 392f | 3032 | 2f32 | 322d | 7264 | 662d | 7379 | 999/02/22-rdf-sy |
| 00000e0: | 6e74 | 6178 | 2d6e | 7323 | 223e | 203c | 7264 | 663a | ntax-ns#"> <rdf: |
| 00000f0: | 4465 | 7363 | 7269 | 7074 | 696f | 6e20 | 7264 | 663a | Description rdf: |
| 0000100: | 6162 | 6f75 | 743d | 2222 | 2078 | 6d6c | 6e73 | 3a64 | about="" xmlns:d |
| 0000110: | 633d | 2268 | 7474 | 703a | 2f2f | 7075 | 726c | 2e6f | c="http://purl.o |
| 0000120: | 7267 | 2f64 | 632f | 656c | 656d | 656e | 7473 | 2f31 | rg/dc/elements/1 |
| 0000130: | 2e31 | 2f22 | 3e20 | 3c64 | 633a | 7375 | 626a | 6563 | .1/"> <dc:subjec |
| 0000140: | 743e | 203c | 7264 | 663a | 5365 | 713e | 203c | 7264 | t> <rdf:Seq> <rd |
| 0000150: | 663a | 6c69 | 3e6b | 6579 | 7b64 | 3165 | 3261 | 6263 | f:li>key{d1e2abc |
| 0000160: | 3138 | 6138 | 6235 | 3038 | 6636 | 3230 | 3437 | 3165 | 18a8b508f620471e |
| 0000170: | 3432 | 6337 | 3261 | 6466 | 3338 | 3138 | 6336 | 3438 | 42c72adf3818c648 |
| 0000180: | 307d | 3c2f | 7264 | 663a | 6c69 | 3e20 | 3c2f | 7264 | 0}k/rdf:li> </rd |
| 0000190: | 663a | 5365 | 713e | 203c | 2f64 | 633a | 7375 | 626a | f:Seq> </dc:subj |
| 00001a0: | 6563 | 743e | 203c | 2f72 | 6466 | 3a44 | 6573 | 6372 | ect> </rdf:Descr |
| 00001b0: | 6970 | 7469 | 6f6e | 3e20 | 3c2f | 7264 | 663a | 5244 | iption> </rdf:RD |
| 00001c0: | 463e | 203c | 2f78 | 3a78 | 6d70 | 6d65 | 7461 | 3e20 | F> </x:xmpmeta> |
| 00001d0: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 00001e0: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 00001f0: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000200: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000210: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000220: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000230: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000240: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000250: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000260: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000270: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000280: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |
| 0000290: | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | |

Plain Text Tab Width: 8 Ln 25, Col 53 INS

Video key:

First we looked on <http://67.23.79.113/ctf/> and downloaded runme.exe. Next, we ran xxd runme.exe and read through the text, which told us to watch the video and find the SHA-1 of the number from the video spelled in caps.

After a few misguided attempts at looking for the video on the website in /Movies and /sesamestreet, we opened readme.exe in wireshark and exported object as HTTP and then saved the video that was there. Next we watched the video, eventually tried the SHA-1 of SEVEN, and it worked!



README.txt key:

Noticing that this was a wordpress site, we tried <http://67.23.79.113/ctf/wp-content/uploads/> and were happy to see that that we had access to a number of files. Naturally, we opened the README.txt and were elated to find a key there.

