Bug 1154183 -- (CVE-2020-8015) VUL-0: CVE-2020-8015: exim: Local privilege escalation from user mail to root

Status: RESOLVED FIXED

Classification: Novell Products
Product: SUSE Security Incidents

Component: Audits
Version: unspecified
Hardware: Other Other

Priority: P3 - Medium Severity: Normal

Target Milestone: --Assigned To: Peter Poeml
QA Contact: Security Team bot

Whiteboard:
Keywords:
Depends on:
Blocks: 1154062

URL:

Show dependency tree / graph

Create test case

Clone This Bug

Reported: 2019-10-16 09:52 UTC by Johannes Segitz
Modified: 2021-05-20 13:24 UTC (History)

CC List: 1 user (show)

See Also:
Found By: --Services Priority:
Business Priority:
Blocker: ---

Attachments

Add an attachment (proposed patch, testcase, etc.)

-Note-

You need to log in before you can comment on or make changes to this bug

Johannes Segitz 2019-10-16 09:52:38 UTC



Johannes Segitz 2019-10-25 11:04:21 UTC

Also works with symlinks. Still tricky to exploit since you need to win the race $\frac{1}{2}$

Johannes Segitz 2020-02-18 15:23:21 UTC

So I worked with this more and unfortunately it's pretty easy to exploit. I can reliably exploit this race by using inotify to watch the log directoy and change the file after the touch to a symlink. Because of this I assign CVE-2020-8015 to this

The information listed here is not public. Please — do not talk to other people about this unless they're involved in fixing the issue

- do not make this bug public

In accordance with our policy we will make this issue public latest at Internal CRD: 2020-05-18 or earlier This is the latest possible date and we prefer to make it public earlier if the situation allows it. In that case we'll post a comment here setting the new date.

Only a member of the security team is allowed to make this issue public. Please

Description

Comment 1

Comment 2

```
speak to us if you want to take part in the public disclosure.
    In doubt please talk to us on IRC (#security) or send us a mail (security@suse.de).
Johannes Segitz 2020-04-01 09:59:54 UTC
                                                                                                                                                                                                                                                                                                                                                  Comment 3
    can you please have a look? Thank you
 Peter Wullinger 2020-04-01 10:06:21 UTC
                                                                                                                                                                                                                                                                                                                                                   Comment 4
    Well ... I'd like to, but
   * I do not have access to bsc#1154062
* I also cannot verify with upstream, while CVE-2020-8015 is assigned, it has no information (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-8015).
   Upstream seems (yet) unaware of the problem, but I cannot report a problem that I have no information about.
Johannes Segitz 2020-04-01 12:15:52 UTC
                                                                                                                                                                                                                                                                                                                                                  Comment 5
    (In reply to Peter Wullinger from comment \$4) 1154062 is just the tracker. I assume you couldn't see the first two comments. Are they visible now?
    Btw. this is an issue with our packaging, not upstream
 Peter Wullinger 2020-04-01 13:05:16 UTC
                                                                                                                                                                                                                                                                                                                                                  Comment 6
    (In reply to Johannes Segitz from comment #5)
      > (In reply to Peter Wullinger from comment \pm 4) > 1154062 is just the tracker. I assume you couldn't see the first two > comments. Are they visible now?
    Yes, thank you.
    *sigh* Okay, that is clearly a test-touch-chmod race.
    I'm inclined to remove the loop altogether % \left( 1\right) =\left( 1\right) \left( 
    * exim does not need the log files to be present, it will create them automatically. This is possible, since /var/log/exim is owned by mail:mail. * exim creates logfiles with permissions LOG_MODE=0640 and runs with umask(0).
    * exim.logrotate has missingok.
 Peter Wullinger 2020-04-01 13:17:48 UTC
                                                                                                                                                                                                                                                                                                                                                   Comment 7
     (In reply to Peter Wullinger from comment #6)
      > (In reply to Johannes Segitz from comment #5)
       > (In reply to Peter Wullinger from comment #4)
> > (In reply to Peter Wullinger from comment #4)
> > 1154062 is just the tracker. I assume you couldn't see the first two
> > comments. Are they visible now?
       > Yes, thank you.
       > *sigh* Okay, that is clearly a test-touch-chmod race.
       > I'm inclined to remove the loop altogether
      > * exim does not need the log files to be present, it will create them
> automatically. This is possible, since /var/log/exim is owned by mail:mail.
> * exim creates logfiles with permissions LOG_MODE=0640 and runs with
       > * exim.logrotate has missingok.
    The change is now in the package. I will update the changelog with appropriate references once this is no longer embargoed.
Johannes Segitz 2020-04-02 07:42:25 UTC
                                                                                                                                                                                                                                                                                                                                                   Comment 8
      (In reply to Peter Wullinger from comment #7)
    Thank you for the fix. I'll make it public now, please add the reference. I've seen that you sent it to Factory. A fix for Leap would be great too
 Swamp Workflow Management 2020-04-02 09:00:05 UTC
    This is an autogenerated message for OBS integration: This bug (1154183) was mentioned in \,
    https://build.opensuse.org/request/show/790814 15.2 / exim
 Swamp Workflow Management 2020-04-06 06:20:05 UTC
                                                                                                                                                                                                                                                                                                                                               Comment 10
    This is an autogenerated message for OBS integration:
This bug (1154183) was mentioned in
https://build.opensuse.org/request/show/791601 15.1 / exim
 Swamp Workflow Management 2020-04-09 19:13:51 UTC
                                                                                                                                                                                                                                                                                                                                              Comment 11
     openSUSE-SU-2020:0491-1: An update that solves one vulnerability and has one errata
    Category: security (moderate)
    Bug References: 1154183,1160726
CVE References: CVE-2020-8015
    Sources used:
openSUSE Leap 15.1 (src): exim-4.88-lp151.4.12.1
Iohannes Segitz 2020-07-20 12:18:58 UTC
                                                                                                                                                                                                                                                                                                                                              Comment 12
```

fixed, thank you

OBSbugzilla Bot 2021-05-06 16:50:08 UTC

This is an autogenerated message for OBS integration:
This bug (1154183) was mentioned in
https://build.opensuse.org/request/show/891098 Backports:SLE-15-SP1 / exim

Swamp Workflow Management 2021-05-20 13:24:59 UTC

openSUSE-SU-2021:0753-1: An update that fixes 30 vulnerabilities is now available.

OpenSUSE_SU-ZU21:0/53-1: An update that fixes 30 vulnerabilities is now available.

Category: security (critical)
Bug References:
1079832;136587,1142207,1154183,1160726,1171490,1171877,1173693,1185631
CVE References: CVE-2017-1000369,CVE-2017-16943,CVE-2017-16944,CVE-2018-6789,CVE-2019-10149,CVE-2019-13917,CVE-2019-15846,CVE-2020-12783,CVE-2020-28007,CVE-2020-28008,CVE-2020-28009,CVE-2020-28001,CVE-2020-28011,CVE-2020-28012,CVE-2020-28013,CVE-2020-2801

First Last Prev Next This bug is not in your last search results.

Comment 13

Comment 14

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