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Bug 1180669 - (CVE-2020-8032) VUL-0: CVE-2020-8032: cyrus-sasl: Local privilege escalation to root due to insecure tmp file usage

Status: IN_PROGRESS Classification: Novell Products **Product:** SUSE Security Incidents Component: Incidents Version: unspecified Hardware: Other Other Priority: P3 - Medium Severity: Major Target Milestone: ---Assigned To: Security Team bot QA Contact: Security Team bot URL: Whiteboard: CVSSv3.1:SUSE:CVE-2020-8032:8.4:(AV:L... Keywords: Depends on: Blocks: Show dependency tree / graph

Create test caseClone This Bug

 Reported:
 2021-01-07 15:51 UTC by Johannes Segitz

 Modified:
 2021-04-20 09:14 UTC (History)

 CC List:
 3 users (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 2021-01-07 15:51:29 UTC

```
In cvrus-sasl.spec
In cyrus-sware.
217 %pre
218 #Convert password file from berkely into gdbm
219 #In %pre the existing file will be dumped out
220 if [ -e /etc/sasldb ]; then
2
                                         split(\$0,b,/\\00/)
if(b[3] == "userPassword" ) {
    user=b[1]
    domain=b[2]
226
                                       OSUMAL. -. .
) else {
    if( user != "" ) {
        printf("echo '%s' | saslpasswd2 -p -u %s '----in)
 220

%s\n",substr(b[1],2),user,domain)

user = ""
234 }
  236 db_dump -p /etc/sas1db2 | gawk -f /tmp/sas1pw.awk > /var/adm/update-
 scripts/saslpwd
allows users on the system to escalate to root. If a user creates /tmp/saslpw.awk before this runs and then monitors the file (e.g. inotifywait /tmp/saslpw.awk) he can change it to arbitrary content after cat writes it, but before gawk is called. When something like this
BEGIN {system("chown johannes /etc/shadow")}
is written to the file this allows escalating to root as this snippet is executed with root privileges.
 with root privileges.
Rating low since this can only be triggered once and the race is hard to win.
Reproduction:
as root (if /etc/sasldb2 doesn't exist)
cp /etc/postfix/relocated.db /etc/sasldb2
otherwise db_dump will fails and it stops there.
inotifywait /tmp/saslpw.awk; echo 'BEGIN {system("chown johannes /etc/shadow")}' >
/tmp/saslpw.awk
Then as root install the package
zypper in -y -f cyrus-sasl
It's hard to win the race, but with a more optimized exploit this should work.
This was recently introduced into Factory, so we need a CVE for it: CVE-2020-8032
Please use a safe way to create temporary files or (better) don't write them to a
location that users can influence.
CRD: 2021-04-07
 as specified in https://en.opensuse.org/openSUSE:Security_disclosure_policy, but I would ask you to fix it right away to keep the window where this can be abused
short.
```

Description

Johannes Segitz 2021-02-11 14:52:40 UTC

can you please submit for Factory? Then we can make it public and publish the CVE

Comment 4

(In reply to Johannes Segitz from comment #4) > can you please submit for Factory? Then we can make it public and publish > the ${\tt CVE}$ **OBSbugzilla Bot** 2021-02-18 13:00:06 UTC Comment 6 This is an autogenerated message for OBS integration: This bug (1180669) was mentioned in $https://build.opensuse.org/request/show/873374 \ Factory / cyrus-sasl$ **OBSbugzilla Bot** 2021-02-19 09:10:09 UTC Comment 7 This is an autogenerated message for OBS integration: This bug (1180669) was mentioned in https://build.opensuse.org/request/show/873673 Factory / cyrus-sasl Johannes Segitz 2021-02-25 08:36:23 UTC Comment 8 thanks Johannes Segitz 2021-02-25 09:05:45 UTC submit to Factory was declined, please have a look **OBSbugzilla Bot** 2021-02-25 15:30:06 UTC Comment 10 This is an autogenerated message for OBS integration: This bug (1180669) was mentioned in https://build.opensuse.org/request/show/875151 Factory / cyrus-sasl OBSbugzilla Bot 2021-02-25 18:40:06 UTC Comment 11 This is an autogenerated message for OBS integration: This bug (1180669) was mentioned in https://build.opensuse.org/request/show/875214 Factory / cyrus-sasl **OBSbugzilla Bot** 2021-02-27 13:20:06 UTC Comment 12 This is an autogenerated message for OBS integration: This bug (1180669) was mentioned in https://build.opensuse.org/request/show/875610 Factory / cyrus-sasl **Peter Varkoly** 2021-03-10 18:51:29 UTC Comment 13 Fix is accepted

Comment 5

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Peter Varkoly 2021-02-12 13:03:25 UTC

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