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Solaris xlock Information Disclosure

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A low impact information disclosure vulnerability in the setuid root xlock binary distributed with Solaris may allow local users to read partial contents of sensitive files. Due to the fact that target files must be in a very specific format, exploitation of this flaw to escalate privileges in a realistic scenario is unlikely.

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 Title: Low impact information disclosure via Solaris xlock
Application: Setuid root xlock binary distributed with Solaris
Platforms: Oracle Solaris 11.x (confirmed on 11.4 X86)
 Oracle Solaris 10 (confirmed on 10 1/13 X86)
 Other platforms are potentially effected
 Description: A low impact information disclosure vulnerability in the setuid
 root xlock binary distributed with Solaris may allow local
 users to read partial contents of potentially sensitive files
 Author: Marco Ivaldi Careco.ivaldimediaservice.net>
Vendor Status: secalert_umboracle.com> notified on 2019-09-24
 CVB Name: CVB-2020-21654./PREL/UI:N/S:U/C:L/I:L/A:N (Base Score: 4.4)
 References https://github.com/Dodada/dvisorles/blo/master/2020-01-solaris-xlock.txt
 https://www.oracle.com/security-alerts/cpujan2020.html
 https://www.oracle.com/sechneture/rever-storage/solaris10/
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 https://www.mediaservi Mediaservice.net Security Advisory #2020-01 (last updated on 2020-01-15) . Abstract. A low impact information disclosure vulnerability in the setuid root xlock binary distributed with Solaris may allow local users to read partial cont of sensitive files. Due to the fact that target files must be in a very specific format, exploitation of this flaw to escalate privileges in a realistic scenario is unlikely. 2. Example Attack Session. In order to reproduce this bug, the following commands can be used: The detected information disclosure happens because xlock does not drop root privileges and follows a malicious symlink to an arbitrary file when opening the -/.Xdefaults configuration file with the XTmmceFileDatabase() function of libXII. Subsequently, xlock's CheckResources() function prints partial contents of the last line of the file that matches the following pattern (the resource-name string can be specified with the -name command line switch of [resource-name].mode:[sensitive data] For instance, if a username in the shadow file ends with the string ".mode" (e.g. "user.mode" as shown in the above example) it is possible for a low privileged user to exploit this flaw in order to reveal the corresponding password hash. Similar results can be achieved in case of usernames that end with the following strings: ".font": the password hash is included in an error message printed by xlock ".info": the password hash is displayed as part of xlock's unlock dialog ".validate": the password hash is displayed as part of xlock's unlock dialog Instead of creating a symink, an attacker could exploit this flaw by directly setting the XFILSSEAKCHPATH or XVISERFILESEAKCHPATH environment variables to point to fetch/shadow. In this case, the password hash associated with usernames that end with the "display" string can also be recovered. The XAPPLERSDIR environment variable can also be manipulated to achieve similar results. Finally, the directive finclude "fetc/shadow" in a configuration file can also be used to trick xiock into opening the 'fetc/shadow' in a ther exploitation vectors may be available. 4. Affected Platforms. * Oracle Solaris 11.x (confirmed on 11.4 X86) * Oracle Solaris 10 (confirmed on 10 1/13 X86) * OpenIndiana Hipster 2019.10 and earlier Other Oracle Solaris versions (including those that run on the SPARC architecture) are also likely affected. 5. Fix. Oracle has assigned the tracking# S1212411 and has released a fix for all affected and supported versions of Solaris in their Critical Fatch Update (CPU) of January 2020. Oracle's patch is available in the solaris-userland open source repository on GitHüb (see commit "30352568 problem in X11/XCLENTS"):
https://github.com/oracle/polaris-userland/commit/Dh08531166d1fedf21c75a2claf2afe55e087f23 OpenIndiana's patch is available in the oi-userland repository on GitHub (see commit "Miock: Sync with solaris-userland (security) #5422"): https://github.com/OpenIndiana/oi-userland/pull/\$421/commits/dd92fe1f7lbd25432a3b7559717d23047099437f pash-3.2# chmod -s /usr/bin/xlock Copyright (c) 2020 Marco Ivaldi and @Mediaservice.net. All rights reserved.



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