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Common Desktop Environment 2.3.1 / 1.6 libDtSvc Buffer Overflow

A difficult to exploit stack-based buffer overflow in the _DtCreateDtDirs() function in the Common Desktop Environment version distributed with Oracle Solaris 10 1/13 (Update 11) and earlier may allow local users to corrupt memory and potentially execute arbitrary code in order to escalate privileges via a long X11 display name. The vulnerable function is located in the libDtSvc library and can be reached by executing the setuid program dtsession. Versions 2.3.1 and below as well as 1.6 and earlier are affected.

systems | solaris

Advisories | CVE-2020-2851 | CVE-2020-2851 | SHA-256 | 7f50111057b19d6619dd24b1f2d5b993965259bb33db3ffa61cb8236878b3cc3 | Download | Favorite | View

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Title: Stack-based buffer overflow in CDE libDtSvc

Application: Common Desktop Environment 2.3.1 and earlier

Common Desktop Environment 1.6 and earlier2020-06-cde-libDtSvc.txt

Platforms: Oracle Solaris 10 1/13 (Update 11) and earlier

Other platforms are potentially affected (see below)

Description: A difficult to exploit stack-based buffer overflow in the

libDtSvc library distributed with CDE may allow local users to

contain the second of the contained on order to escalate privileges

Author: Macco Ivalid contained comb notified on 2019-12-15

CDER Name: CVE-2020-28 (tracking VUB/302889)

CVE Name: CVE-2020-28 (JCAN:L/NC:L/NFR:L/UI:N/S:C/C:M/I:H/A:H (Base Score: 7.8)

References: https://github.com/buds-advisories/blob/master/2020-06-cde-libDtSvc.txt

https://www.oracle.com/scontiey-alerts/puppr/2020.html

https://www.oracle.com/scontext/server-storage/solaris10/

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https://www.mediaservice.net/ . Abstract. A difficult to exploit stack-based buffer overflow in the _DtCreateDtDirs()
function in the Common Desktop Environment version distributed with Oracle
Solaris 10 1/13 (Update 11) and earlier may allow local users to corrupt mem
and potentially execute arbitrary code in order to escalate privileges via a
long XII display name. The vulnerable function is located in the blubvoc
library and can be reached by executing the setuid program dtsession. Note that Oracle Solaris CDE is based on the original CDE 1.x train, which is different from the CDE 2.x codebase that was later open sourced. In detail, the open source CDE is not affected by this specific vulnerability, but following our report some additional work has been done by its maintainers to properly check bounds in the libbtSvc library. Most notably, insecure calls to struct() that caused buffer overflows have been fixed. In order to reproduce this bug, the following commands can be used: Dash-3.2% cat /etc/release
Oracle Solaris 10 1/13 s10x_ullwos_24s X86
Copyright (c) 1983, 2013, Oracle and/or its affiliates. All rights reserved.
Assembled 17 January 2013 Assembled 17 January 2013

SunOS nortalgia 5.10 Generic_147148-26 186pc 1386 186pc hash-3.25 1d gid=1(other)

bash-3.25 (apt gid=1(other) bash char * DtCreateDtDirs(int param 1) if (param_1 != 0) {
 strcpy(local_f0,*(char **) (param_1 + 0x80));
 strcpy(local_88,*(char **) (param_1 + 0x80)); An XII display data structure is passed to the _DtCreateDtDirs() function as its only parameter (param 1 in the pseudocode above). It contains the XII display name at offset Ox80. This display name is copied into the stack buffers local_f0 and local_80 using the insecure function stropy() twice, therefore two Based on the inferred stack layout, the following local variables are overflowed into before the saved return address can be reached: This complicates exploitation, in particular because the heap path2 and temp ptrl pointers get in the way. A skilled attacker might be able to overwrite all variables with safe data and leverage memory corruption to obtain arbitrary code execution. However, there is an additional challenge: the ability to control a hostname to be passed in the XII display name string. In our FOC above we have edited /etc/hosts, but this is obviously not possible for an unprivileged local attacker. A DNS server under the control of the attacker may be used for this purpose, but such an approach would introduce a number of additional complications. That said, as a rule of thumb all memory corruption issues have the potential to become serious security vulnerabilities until otherwise proven. Therefore, we recommend to treat this bug as a potential security vulnerability and to fix it as such. 4. Affected Platforms.

All platforms shipping the Common Desktop Environment are potentially affected. This includes:



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* Oracle Solaris 10 1/13 (Update 11) and earlier [default installation]
According to the CDE Wiki, the following platforms are officially supported:

* All Official Ubuntu variants 12.04 - 18.04

* Deblam 6, 7, 8, 9

* Fedora 17 at least

* Archinux

* Red Hat

* Slackware 14.0

* OpenBSD

* NetESD

* FreeBSD 9.2, 10.x, 11.x

* openBSD * Lumbleweed (gcc7)

* openSSD * L

Whitepaper (3,729) x86 (946) XSS (17,494) Other

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