

Bug 1896739 (CVE-2020-25708) - CVE-2020-25708 libvncserver: libvncserver/rfbserver.c has a divide by zero which could result in DoS

Keywords: Security ×

Status: CLOSED ERRATA

Alias: CVE-2020-25708

Product: Security Response

Component: vulnerability 🛠️ ⚙️

Version: unspecified

Hardware: All

OS: Linux

Priority: medium

Severity: medium

Target ---

Milestone: ---

Assignee: Red Hat Product Security

QA Contact:

Docs Contact:

URL:

Whiteboard:

Depends On: 4896740 🚫 1898077 🚫 1898078

Blocks: 1896743

TreeView+ depends on / blocked

Reported: 2020-11-11 12:39 UTC by Michael Kaplan

Modified: 2021-05-18 15:16 UTC (History)

CC List: 5 users (show)

Fixed In Version: libvncserver 0.9.13

Doc Type: 📄 If docs needed, set a value

Doc Text: 📄 A divide by zero flaw was found in libvncserver. This flaw allows a malicious client to send a specially crafted message that, when processed by the VNC server, leads to a floating-point exception, resulting in a denial of service. The highest threat from this vulnerability is to system availability.

Clone Of:

Environment:

Last Closed: 2021-05-18 14:36:07 UTC

| Attachments | (Terms of Use) |
|--|----------------|
| Add an attachment (proposed patch, testcase, etc.) | |

| | | |
|---|-------------------------|-------------|
| Michael Kaplan | 2020-11-11 12:39:52 UTC | Description |
| <p>An issue was discovered in libvncserver-0.9.12. There is a divide by zero in rfbSendRectEncodingRaw function in libvncserver/rfbserver.c. Attackers can launch a denial of service attack by sending a special message to the VNC server.</p> <p>Upstream issue: https://github.com/LibVNC/libvncserver/issues/409</p> <p>Upstream commit: https://github.com/LibVNC/libvncserver/commit/673c07a75ed844d74676f3ccdcfdc706a7052dba</p> | | |
| Michael Kaplan | 2020-11-11 12:39:58 UTC | Comment 1 |
| <p>Acknowledgments:</p> <p>Name: Kailong Zhu, Hui Huang, Lu Yu</p> | | |
| Michael Kaplan | 2020-11-11 12:40:02 UTC | Comment 2 |
| <p>External References:</p> <p>https://github.com/LibVNC/libvncserver/issues/409 https://github.com/LibVNC/libvncserver/commit/673c07a75ed844d74676f3ccdcfdc706a7052dba</p> | | |
| Michael Kaplan | 2020-11-11 12:40:40 UTC | Comment 3 |
| <p>Created libvncserver tracking bugs for this issue:</p> <p>Affects: epel-7 [bug 1896740]</p> | | |
| DRC | 2021-02-23 21:49:30 UTC | Comment 7 |
| <p>NOTE: at least one commercial firewall has flagged TurboVNC connections as vulnerable to this CVE, but to the best of my knowledge and testing, LibVNCServer is the only TightVNC-compatible code base that is (was) vulnerable. I was unable to reproduce the vulnerability with TightVNC 1.3.x, TigerVNC, or TurboVNC. Refer to https://github.com/TurboVNC/turbovnc/pull/273#issuecomment-784498698.</p> | | |
| Product Security DevOps Team | 2021-05-18 14:36:07 UTC | Comment 9 |
| <p>This bug is now closed. Further updates for individual products will be reflected on the CVE page(s):</p> <p>https://access.redhat.com/security/cve/cve-2020-25708</p> | | |
| errata-xmlrpc | 2021-05-18 15:16:21 UTC | Comment 10 |
| <p>This issue has been addressed in the following products:</p> <p>Red Hat Enterprise Linux 8</p> <p>Via RHSA-2021:1811 https://access.redhat.com/errata/RHSA-2021:1811</p> | | |

Note

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