TECHNICAL BRIEF

Prepared Nov 27, 2026, 5:30 PM PST

Oracle Linux: CVE-2026-31678 Open vSwitch tunnel netdev reference race in Linux kernel

Status: Recovering / monitoring

Started Apr 24, 2026, 5:00 PM PDT

WHERE THINGS STAND

A kernel flaw (CVE-2026-31678, Open vSwitch tunnel race) has an Oracle Linux 8 kernel erratum listed by third parties, with a public exploit note. Installing the update is the remaining step.

Affected: Linux kernel (Open vSwitch module), Oracle Linux 8.10

REFERENCE NUMBERS

ID	TYPE	SEVERITY	EXPLOITED	LINK
CVE-2026-31678	CVE	CVSS 7.8 · high	No	https://access.redhat.com/security/cve/cve-2026-31678
ELSA-2026-82807	vendor	—	No	https://linux.oracle.com/errata/ELSA-2026-82807.html
ELSA-2026-83157	vendor	—	No	https://linux.oracle.com/errata/ELSA-2026-83157.html

AFFECTED VERSIONS AND FIXES

Every publicly affected version line found. Rows marked (BIS) are systems BIS runs.

PRODUCT / DISTRIBUTION	AFFECTED	FIXED IN	STATUS	SOURCE
(BIS) Oracle Linux 8 kernel (ELSA-2026-82807)	kernels before the ELSA-2026-82807 build	—	**FIXED**	Tenable copy of Oracle advisory, 2026-10-14
(BIS) Oracle Linux 8 kernel (ELSA-2026-83157)	kernels before the ELSA-2026-83157 build	—	**FIXED**	Tenable copy of Oracle advisory, 2026-10-15
Red Hat Enterprise Linux 8 kernel	per Red Hat CVE page	—	**UNCONFIRMED**	BIS staff report; Red Hat CVE page, 2026-11-27

WORKAROUNDS UNTIL A FIX IS INSTALLED

- Prevent the openvswitch module from loading if Open vSwitch is not used (Red Hat solution 41278).
- Apply virtualization and networking kernel updates where Open vSwitch is in use.

HOW TO CHECK IF A SYSTEM IS AFFECTED

```
uname -r
rpm -q --changelog kernel | grep CVE-2026-31678
Compare the installed kernel with the ELSA-2026-82807 package list at
linux.oracle.com
lsmod | grep openvswitch
```

ROOT CAUSE

Open vSwitch tunnel destruction (ovs_netdev_tunnel_destroy) can drop a netdev reference while other code still uses the device. The upstream fix defers netdev_put to the RCU release.

Questions? Contact BIS Computer Solutions, Inc.

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EXPLOITATION

Red Hat Bugzilla 2461761 says a public exploit has been released (undated). Tenable's Oracle Linux 9 plugin marks exploits as available, while its Oracle Linux 8 plugin says none are known. The CVE is not on CISA KEV and OffSeq reports it as not known to be exploited.

WHAT THE IT COMMUNITY IS SAYING

Searches of the social and forum results turned up no posts from the last 7 days about CVE-2026-31678, the Open vSwitch tunnel netdev race, RHSA-2026:82807 or ELSA-2026-82807. Nobody is reporting impact, workarounds, vendor replies, or confirmation of an Oracle fix. The only Open vSwitch kernel thread found is about a different CVE, CVE-2026-64531, roughly 114 days old, so it is not part of this topic.

From public posts by IT administrators; not confirmed by the vendor.

TIMELINE (NEWEST FIRST)

Nov 27, 2026, 5:30 PM PST

Third-party copies of Oracle's Oracle Linux 8 kernel advisories list CVE-2026-31678, and a public exploit note has surfaced; Oracle's own errata page was not opened on this run.

Nov 27, 2026, 3:05 PM PST

Red Hat's RHEL 8 advisory RHSA-2026:82807 for this CVE is dated 14 Oct 2026, and a Red Hat Bugzilla comment claims a public exploit exists, which conflicts with OffSeq.

Nov 27, 2026, 11:03 AM PST

Oracle Linux 8 appears to have a kernel erratum (ELSA-2026-82807) that lists CVE-2026-31678, according to a Tenable summary; I could not open Oracle's advisory to confirm it.

Nov 26, 2026, 4:00 PM PST

Red Hat kernel advisory naming CVE-2026-31678 (OffSeq copy of Red Hat advisory)

Oct 14, 2026, 5:00 PM PDT

Oracle Linux 8 kernel advisory ELSA-2026-83157 patch date (Tenable)

Oct 13, 2026, 5:00 PM PDT

Oracle Linux 8 kernel advisory ELSA-2026-82807 patch date (Tenable)

Apr 24, 2026, 5:00 PM PDT

CVE-2026-31678 published (CVE record)

SOURCES

tenable.com/plugins/nessus/366692 — https://www.tenable.com/plugins/nessus/366692
vulners.com copy — https://vulners.com/nessus/ORACLELINUX_ELSA-2026-83157.NASL
OffSeq copy — https://radar.offseq.com/threat/red-hat-security-advisory-kernel-security-update-14025867c7ff98d1
bugzilla.redhat.com/show_bug.cgi?id=2461761 — https://bugzilla.redhat.com/show_bug.cgi?id=2461761