



Red Hat Product Errata    RHSA-2024:0009 - Security Advisory

# RHSA-2024:0009 - Security Advisory

Issued: 2024-01-02    Updated: 2024-01-02

[Overview](#)[Updated Packages](#)

## Synopsis

Important: xorg-x11-server security update

## Type/Severity

Security Advisory: Important

### Red Hat Lightspeed patch analysis

Identify and remediate systems affected by this advisory.

[View affected systems](#) 

## Topic

An update for xorg-x11-server is now available for Red Hat Enterprise Linux 7.

Red Hat Product Security has rated this update as having a security impact of Important. A Common Vulnerability Scoring System (CVSS) base score, which gives a detailed severity rating, is available for each vulnerability from the CVE link(s) in the References section.

## Description

X.Org is an open-source implementation of the X Window System. It provides the basic low-level functionality that full-fledged graphical user interfaces are designed upon.

Security Fix(es):

- xorg-x11-server: out-of-bounds memory reads/writes in XKB button actions (CVE-2023-6377)
- xorg-x11-server: out-of-bounds memory read in RRChangeOutputProperty and RRChangeProviderProperty (CVE-2023-6478)

For more details about the security issue(s), including the impact, a CVSS score, acknowledgments, and other related information, refer to the CVE page(s) listed in the References section.

## Solution



For details on how to apply this update, which includes the changes described in this advisory, refer to:

<https://access.redhat.com/articles/11258> 



## Affected Products

- Red Hat Enterprise Linux Server 7 x86\_64
- Red Hat Enterprise Linux Server - Extended Life Cycle Support 7 x86\_64
- Red Hat Enterprise Linux Workstation 7 x86\_64
- Red Hat Enterprise Linux Desktop 7 x86\_64
- Red Hat Enterprise Linux for IBM z Systems 7 s390x
- Red Hat Enterprise Linux for Power, big endian 7 ppc64
- Red Hat Enterprise Linux for Scientific Computing 7 x86\_64
- Red Hat Enterprise Linux for Power, little endian 7 ppc64le
- Red Hat Enterprise Linux Server - Extended Life Cycle Support (for IBM z Systems) 7 s390x
- Red Hat Enterprise Linux Server - Extended Life Cycle Support for IBM Power, big endian 7 ppc64
- Red Hat Enterprise Linux Server - Extended Life Cycle Support for IBM Power, little endian 7 ppc64le

## Fixes

- [BZ - 2253291](#)  - CVE-2023-6377 xorg-x11-server: out-of-bounds memory reads/writes in XKB button actions
- [BZ - 2253298](#)  - CVE-2023-6478 xorg-x11-server: out-of-bounds memory read in RRChangeOutputProperty and RRChangeProviderProperty

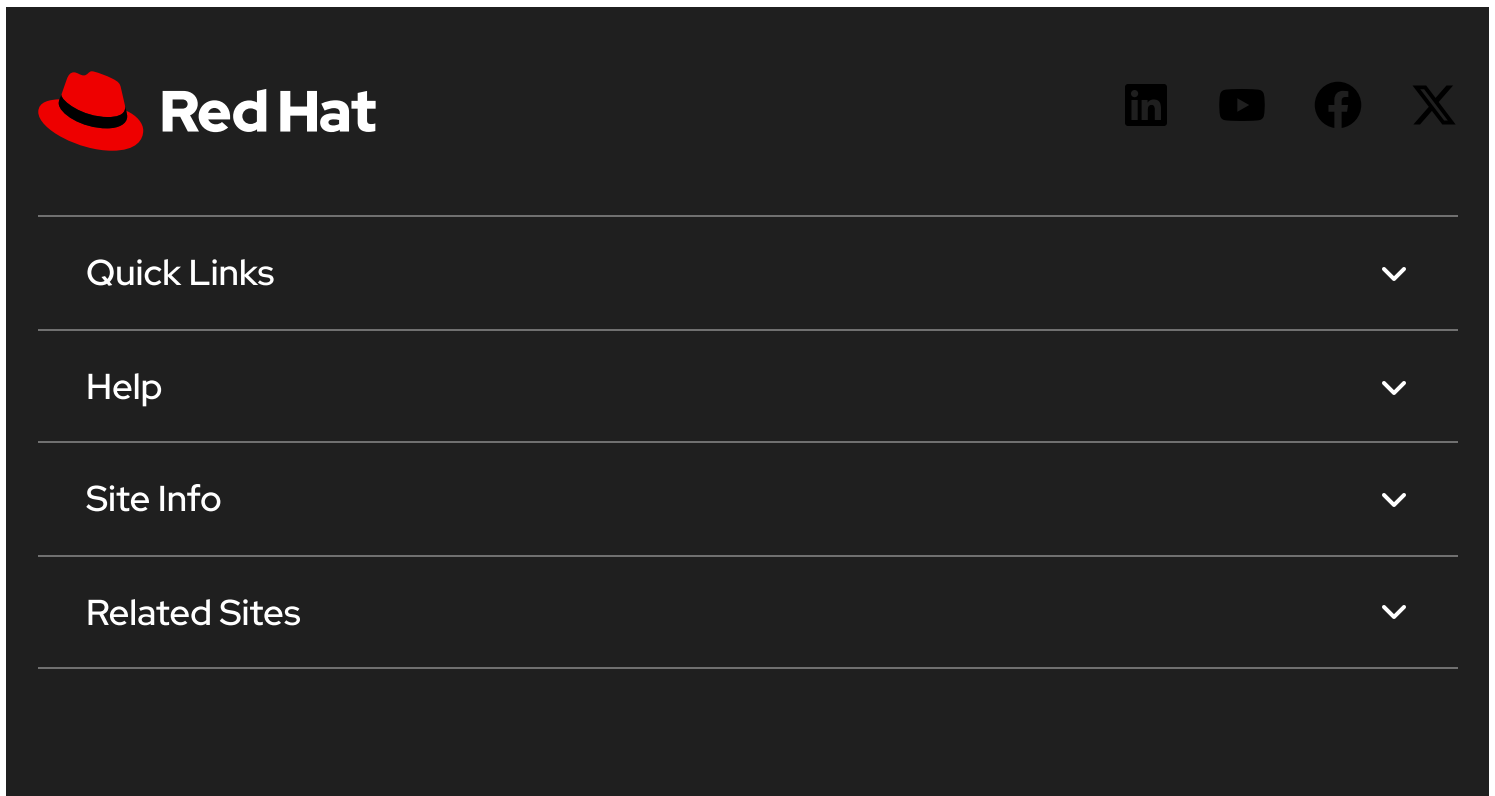
## CVEs

- [CVE-2023-6377](#) 
- [CVE-2023-6478](#) 


## References

- <https://access.redhat.com/security/updates/classification/#important> 

The Red Hat security contact is [secalert@redhat.com](mailto:secalert@redhat.com). More contact details at <https://access.redhat.com/security/team/contact/>.



The image shows a dark-themed navigation menu for Red Hat. At the top left is the Red Hat logo (a red hat icon) and the text "Red Hat". To the right are social media icons for LinkedIn, YouTube, Facebook, and X. Below these are four menu items, each with a downward-pointing chevron icon on the right: "Quick Links", "Help", "Site Info", and "Related Sites".

 Partial system outage



The image shows a dark-themed footer area. On the left is a small grey hat icon. To its right are three links: "About Red Hat", "Jobs", and "Events".

[Locations](#)

[Contact Red Hat](#)

[Red Hat Blog](#)

[Inclusion at Red Hat](#)

[Cool Stuff Store](#)

[Red Hat Summit](#)

---

© 2026 Red Hat

[Privacy statement](#)

[Terms of use](#)

[All policies and guidelines](#)

[Digital accessibility](#)

[Cookie preferences](#)