

About the security content of macOS Big Sur 11.6.6

This document describes the security content of macOS Big Sur 11.6.6.

About Apple security updates

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Apple security documents reference vulnerabilities by [CVE-ID](#) when possible.

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macOS Big Sur 11.6.6

Released May 16, 2022

apache

Available for: macOS Big Sur

Impact: Multiple issues in apache

Description: Multiple issues were addressed by updating apache to version 2.4.53.

CVE-2021-44224

CVE-2021-44790

CVE-2022-22719

CVE-2022-22720

CVE-2022-22721

AppKit

Available for: macOS Big Sur

Impact: A malicious application may be able to gain root privileges

Description: A logic issue was addressed with improved validation.

CVE-2022-22665: Lockheed Martin Red Team

AppleAVD

Available for: macOS Big Sur

Impact: An application may be able to execute arbitrary code with kernel privileges. Apple is aware of a report that this issue may have been actively exploited.

Description: An out-of-bounds write issue was addressed with improved bounds checking.

CVE-2022-22675: an anonymous researcher

AppleEvents

Available for: macOS Big Sur

Impact: A remote attacker may be able to cause an unexpected app termination or arbitrary code execution

Description: A use after free issue was addressed with improved memory management.

CVE-2022-22630: Jeremy Brown working with Trend Micro Zero Day Initiative

Entry added June 8, 2023

AppleGraphicsControl

Available for: macOS Big Sur

Impact: Processing a maliciously crafted image may lead to arbitrary code execution

Description: A memory corruption issue was addressed with improved input validation.

CVE-2022-26751: Michael DePlante (@izobashi) of Trend Micro Zero Day Initiative

AppleScript

Available for: macOS Big Sur

Impact: Processing a maliciously crafted AppleScript binary may result in unexpected application termination or disclosure of process memory

Description: An out-of-bounds read issue was addressed with improved bounds checking.

CVE-2022-26698: Qi Sun of Trend Micro, Ye Zhang (@co0py_Cat) of Baidu Security

Entry updated July 6, 2022

AppleScript

Available for: macOS Big Sur

Impact: Processing a maliciously crafted AppleScript binary may result in unexpected application termination or disclosure of process memory

Description: An out-of-bounds read issue was addressed with improved input validation.

CVE-2022-26697: Qi Sun and Robert Ai of Trend Micro

CoreTypes

Available for: macOS Big Sur

Impact: A malicious application may bypass Gatekeeper checks

Description: This issue was addressed with improved checks to prevent unauthorized actions.

CVE-2022-22663: Arsenii Kostromin (0x3c3e)

CVMS

Available for: macOS Big Sur

Impact: A malicious application may be able to gain root privileges

Description: A memory initialization issue was addressed.

CVE-2022-26721: Yonghwi Jin (@jinmo123) of Theori

CVE-2022-26722: Yonghwi Jin (@jinmo123) of Theori

DriverKit

Available for: macOS Big Sur

Impact: A malicious application may be able to execute arbitrary code with system privileges

Description: An out-of-bounds access issue was addressed with improved bounds checking.

CVE-2022-26763: Linus Henze of Pinauten GmbH (pinauten.de)

Graphics Drivers

Available for: macOS Big Sur

Impact: A local user may be able to read kernel memory

Description: An out-of-bounds read issue existed that led to the disclosure of kernel memory. This was addressed with improved input validation.

CVE-2022-22674: an anonymous researcher

Intel Graphics Driver

Available for: macOS Big Sur

Impact: A malicious application may be able to execute arbitrary code with kernel privileges

Description: An out-of-bounds write issue was addressed with improved bounds checking.

CVE-2022-26720: Liu Long of Ant Security Light-Year Lab

Intel Graphics Driver

Available for: macOS Big Sur

Impact: A malicious application may be able to execute arbitrary code with kernel privileges

Description: An out-of-bounds read issue was addressed with improved input validation.

CVE-2022-26770: Liu Long of Ant Security Light-Year Lab

Intel Graphics Driver

Available for: macOS Big Sur

Impact: An application may be able to execute arbitrary code with kernel privileges

Description: An out-of-bounds write issue was addressed with improved input validation.

CVE-2022-26756: Jack Dates of RET2 Systems, Inc

Intel Graphics Driver

Available for: macOS Big Sur

Impact: A malicious application may be able to execute arbitrary code with kernel privileges

Description: A memory corruption issue was addressed with improved input validation.

CVE-2022-26769: Antonio Zekic (@antoniozekic)

Intel Graphics Driver

Available for: macOS Big Sur

Impact: Processing maliciously crafted web content may lead to arbitrary code execution

Description: An out-of-bounds write issue was addressed with improved input validation.

CVE-2022-26748: Jeonghoon Shin of Theori working with Trend Micro Zero Day Initiative

IOMobileFrameBuffer

Available for: macOS Big Sur

Impact: An application may be able to execute arbitrary code with kernel privileges

Description: A memory corruption issue was addressed with improved state management.

CVE-2022-26768: an anonymous researcher

Kernel

Available for: macOS Big Sur

Impact: An application may be able to execute arbitrary code with kernel privileges

Description: A memory corruption issue was addressed with improved validation.

CVE-2022-26714: Peter Nguyễn Vũ Hoàng (@peternguyen14) of STAR Labs (@starlabs_sg)

Kernel

Available for: macOS Big Sur

Impact: An application may be able to execute arbitrary code with kernel privileges

Description: A use after free issue was addressed with improved memory management.

CVE-2022-26757: Ned Williamson of Google Project Zero

LaunchServices

Available for: macOS Big Sur

Impact: An app may be able to bypass certain Privacy preferences

Description: A logic issue was addressed with improved restrictions.

CVE-2021-30946: @gorelics, and Ron Masas of BreakPoint.sh

Entry added June 8, 2023

LaunchServices

Available for: macOS Big Sur

Impact: A malicious application may be able to bypass Privacy preferences

Description: The issue was addressed with additional permissions checks.

CVE-2022-26767: Wojciech Reguła (@_r3ggi) of SecuRing

LaunchServices

Available for: macOS Big Sur

Impact: A sandboxed process may be able to circumvent sandbox restrictions

Description: An access issue was addressed with additional sandbox restrictions on third-party applications.

CVE-2022-26706: Arsenii Kostromin (0x3c3e), Jonathan Bar Or of Microsoft

Entry updated July 6, 2022

Libinfo

Available for: macOS Big Sur

Impact: An app may be able to bypass Privacy preferences

Description: This issue was addressed with improved checks.

CVE-2022-32882: Zhipeng Huo (@R3dF09) and Yuebin Sun (@yuebinsun2020) of Tencent Security Xuanwu Lab

Entry added September 16, 2022

libresolv

Available for: macOS Big Sur

Impact: A remote user may be able to cause a denial-of-service

Description: This issue was addressed with improved checks.

CVE-2022-32790: Max Shavrick (@_mxms) of the Google Security Team

Entry added June 21, 2022

libresolv

Available for: macOS Big Sur

Impact: An attacker may be able to cause unexpected application termination or arbitrary code execution

Description: This issue was addressed with improved checks.

CVE-2022-26776: Zubair Ashraf of CrowdStrike, Max Shavrick (@_mxms) of the Google Security Team

LibreSSL

Available for: macOS Big Sur

Impact: Processing a maliciously crafted certificate may lead to a denial of service

Description: A denial of service issue was addressed with improved input validation.

CVE-2022-0778

libxml2

Available for: macOS Big Sur

Impact: A remote attacker may be able to cause unexpected application termination or arbitrary code execution

Description: A use after free issue was addressed with improved memory management.

CVE-2022-23308

OpenSSL

Available for: macOS Big Sur

Impact: Processing a maliciously crafted certificate may lead to a denial of service

Description: This issue was addressed with improved checks.

CVE-2022-0778

PackageKit

Available for: macOS Big Sur

Impact: An app may be able to gain elevated privileges

Description: A logic issue was addressed with improved state management.

CVE-2022-32794: Mickey Jin (@patch1t)

Entry added October 4, 2022

PackageKit

Available for: macOS Big Sur

Impact: A malicious application may be able to modify protected parts of the file system

Description: This issue was addressed by removing the vulnerable code.

CVE-2022-26712: Mickey Jin (@patch1t)

Printing

Available for: macOS Big Sur

Impact: A malicious application may be able to bypass Privacy preferences

Description: This issue was addressed by removing the vulnerable code.

CVE-2022-26746: @gorelics

Safari Private Browsing

Available for: macOS Big Sur

Impact: A malicious website may be able to track users in Safari private browsing mode

Description: A logic issue was addressed with improved state management.

CVE-2022-26731: an anonymous researcher

Entry added July 6, 2022

Security

Available for: macOS Big Sur

Impact: A malicious app may be able to bypass signature validation

Description: A certificate parsing issue was addressed with improved checks.

CVE-2022-26766: Linus Henze of Pinauten GmbH (pinauten.de)

SMB

Available for: macOS Big Sur

Impact: An application may be able to gain elevated privileges

Description: An out-of-bounds read issue was addressed with improved input validation.

CVE-2022-26718: Peter Nguyễn Vũ Hoàng of STAR Labs

SMB

Available for: macOS Big Sur

Impact: Mounting a maliciously crafted Samba network share may lead to arbitrary code execution

Description: A memory corruption issue was addressed with improved input validation.

CVE-2022-26723: Felix Poulin-Belanger

SMB

Available for: macOS Big Sur

Impact: An application may be able to gain elevated privileges

Description: An out-of-bounds write issue was addressed with improved bounds checking.

CVE-2022-26715: Peter Nguyễn Vũ Hoàng of STAR Labs

SoftwareUpdate

Available for: macOS Big Sur

Impact: A malicious application may be able to access restricted files

Description: This issue was addressed with improved entitlements.

CVE-2022-26728: Mickey Jin (@patch1t)

TCC

Available for: macOS Big Sur

Impact: An app may be able to capture a user's screen

Description: This issue was addressed with improved checks.

CVE-2022-26726: Antonio Cheong Yu Xuan of YCISCQ

Entry updated June 8, 2023

Tcl

Available for: macOS Big Sur

Impact: A malicious application may be able to break out of its sandbox

Description: This issue was addressed with improved environment sanitization.

CVE-2022-26755: Arsenii Kostromin (0x3c3e)

Vim

Available for: macOS Big Sur

Impact: Multiple issues in Vim

Description: Multiple issues were addressed by updating Vim.

CVE-2021-4136

CVE-2021-4166

CVE-2021-4173

CVE-2021-4187

CVE-2021-4192

CVE-2021-4193

CVE-2021-46059

CVE-2022-0128

WebKit

Available for: macOS Big Sur

Impact: Processing a maliciously crafted mail message may lead to running arbitrary javascript

Description: A validation issue was addressed with improved input sanitization.

CVE-2022-22589: Heige of KnownSec 404 Team (knownsec.com) and Bo Qu of Palo Alto Networks (paloaltonetworks.com)

Wi-Fi

Available for: macOS Big Sur

Impact: A malicious application may disclose restricted memory

Description: A memory corruption issue was addressed with improved validation.

CVE-2022-26745: Scarlet Raine

Entry updated July 6, 2022

Wi-Fi

Available for: macOS Big Sur

Impact: An application may be able to execute arbitrary code with kernel privileges

Description: A memory corruption issue was addressed with improved memory handling.

CVE-2022-26761: Wang Yu of Cyberserval

zip

Available for: macOS Big Sur

Impact: Processing a maliciously crafted file may lead to a denial of service

Description: A denial of service issue was addressed with improved state handling.

CVE-2022-0530

zlib

Available for: macOS Big Sur

Impact: An attacker may be able to cause unexpected application termination or arbitrary code execution

Description: A memory corruption issue was addressed with improved input validation.

CVE-2018-25032: Tavis Ormandy

zsh

Available for: macOS Big Sur

Impact: A remote attacker may be able to cause arbitrary code execution

Description: This issue was addressed by updating to zsh version 5.8.1.

CVE-2021-45444

Additional recognition

Bluetooth

We would like to acknowledge Jann Horn of Project Zero for their assistance.

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Helpful?

Yes

No

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