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## APPLE-SA-2022-05-16-3 macOS Big Sur 11.6.6

*From:* Apple Product Security via Fulldisclosure <fulldisclosure () seclists org>

*Date:* Mon, 16 May 2022 16:20:19 -0700

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA256

APPLE-SA-2022-05-16-3 macOS Big Sur 11.6.6

macOS Big Sur 11.6.6 addresses the following issues.  
Information about the security content is also available at  
<https://support.apple.com/HT213256>.

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

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

#### 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: 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)

#### 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: 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

#### 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: an anonymous researcher

#### 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: an anonymous researcher

#### 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.

macOS Big Sur 11.6.6 may be obtained from the Mac App Store or Apple's Software Downloads web site:

<https://support.apple.com/downloads/>

All information is also posted on the Apple Security Updates web site: <https://support.apple.com/en-us/HT201222>.

This message is signed with Apple's Product Security PGP key, and details are available at:

<https://www.apple.com/support/security/pgp/>

-----BEGIN PGP SIGNATURE-----

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-----END PGP SIGNATURE-----

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**APPLE-SA-2022-05-16-3 macOS Big Sur 11.6.6 Apple Product Security via Fulldisclosure (May 16)**

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