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## APPLE-SA-2022-05-16-4 Security Update 2022-004 Catalina

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

*Date:* Mon, 16 May 2022 16:20:22 -0700

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Hash: SHA256

APPLE-SA-2022-05-16-4 Security Update 2022-004 Catalina

Security Update 2022-004 Catalina addresses the following issues. Information about the security content is also available at <https://support.apple.com/HT213255>.

apache

Available for: macOS Catalina

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 Catalina

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

AppleGraphicsControl

Available for: macOS Catalina

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 Catalina

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

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

validation.

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

#### AppleScript

Available for: macOS Catalina

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

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

CVE-2022-26698: Qi Sun of Trend Micro

#### CoreTypes

Available for: macOS Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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

#### Kernel

Available for: macOS Catalina

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 Catalina

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

#### libresolv

Available for: macOS Catalina

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

Description: An integer overflow was addressed with improved input validation.

CVE-2022-26775: Max Shavrck (@\_mxms) of the Google Security Team

#### LibreSSL

Available for: macOS Catalina

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 Catalina

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 Catalina

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 Catalina

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

Description: This issue was addressed with improved entitlements.

CVE-2022-26727: Mickey Jin (@patchlt)

#### Printing

Available for: macOS Catalina

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 Catalina

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 Catalina

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 Catalina

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

Description: This issue was addressed with improved entitlements.

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

#### TCC

Available for: macOS Catalina

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 Catalina

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)

#### WebKit

Available for: macOS Catalina

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 Catalina

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 Catalina  
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 Catalina  
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 Catalina  
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

PackageKit  
We would like to acknowledge Mickey Jin (@patch1t) of Trend Micro for their assistance.

Security Update 2022-004 Catalina 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/>

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