

# About the security content of macOS Big Sur 11.6

This document describes the security content of macOS Big Sur 11.6.

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## macOS Big Sur 11.6

Released September 13, 2021

### AppleMobileFileIntegrity

Available for: macOS Big Sur

Impact: A local attacker may be able to read sensitive information

Description: This issue was addressed with improved checks.

CVE-2021-30811: an anonymous researcher working with Compartir

Entry added January 19, 2022

### Apple Neural Engine

Available for: macOS Big Sur

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

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

CVE-2021-30838: proteas wang

Entry added January 19, 2022

### CoreAudio

Available for: macOS Big Sur

Impact: Processing a malicious audio file may result in unexpected application termination or arbitrary code execution

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

CVE-2021-30834: JunDong Xie of Ant Security Light-Year Lab

Entry added January 19, 2022

### CoreGraphics

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-2021-30928: Mickey Jin (@patch1t) of Trend Micro

Entry added January 19, 2022

### **CoreGraphics**

Available for: macOS Big Sur

Impact: Processing a maliciously crafted PDF may lead to arbitrary code execution. Apple is aware of a report that this issue may have been actively exploited.

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

CVE-2021-30860: The Citizen Lab

### **Core Telephony**

Available for: macOS Big Sur

Impact: A sandboxed process may be able to circumvent sandbox restrictions. Apple was aware of a report that this issue may have been actively exploited at the time of release.

Description: A deserialization issue was addressed through improved validation.

CVE-2021-31010: Citizen Lab and Google Project Zero

Entry added May 25, 2022

### **CUPS**

Available for: macOS Big Sur

Impact: A local attacker may be able to elevate their privileges

Description: A permissions issue existed. This issue was addressed with improved permission validation.

CVE-2021-30827: an anonymous researcher

Entry added September 20, 2021

### **CUPS**

Available for: macOS Big Sur

Impact: A local user may be able to read arbitrary files as root

Description: This issue was addressed with improved checks.

CVE-2021-30828: an anonymous researcher

Entry added September 20, 2021

### **CUPS**

Available for: macOS Big Sur

Impact: A local user may be able to execute arbitrary files

Description: A URI parsing issue was addressed with improved parsing.

CVE-2021-30829: an anonymous researcher

Entry added September 20, 2021

### **curl**

Available for: macOS Big Sur

Impact: curl could potentially reveal sensitive internal information to the server using a clear-text network protocol

Description: A buffer overflow was addressed with improved input validation.

CVE-2021-22925: Red Hat Product Security

Entry added September 20, 2021, updated January 19, 2022

### **CVMS**

Available for: macOS Big Sur

Impact: A local attacker may be able to elevate their privileges

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

CVE-2021-30832: Mickey Jin (@patch1t) of Trend Micro

Entry added September 20, 2021

### **FontParser**

Available for: macOS Big Sur

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

Description: This issue was addressed with improved checks.

CVE-2021-30841: Xingwei Lin of Ant Security Light-Year Lab

CVE-2021-30842: Xingwei Lin of Ant Security Light-Year Lab

CVE-2021-30843: Xingwei Lin of Ant Security Light-Year Lab

Entry added September 20, 2021

### **Gatekeeper**

Available for: macOS Big Sur

Impact: A malicious application may bypass Gatekeeper checks

Description: This issue was addressed with improved checks.

CVE-2021-30853: Gordon Long (@ethicalhax) of Box, Inc.

Entry added September 20, 2021

### **Graphics Drivers**

Available for: macOS Big Sur

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

Description: A race condition was addressed with improved state handling.

CVE-2021-30933: Jack Dates of RET2 Systems, Inc.

Entry added May 25, 2022

### **ImageIO**

Available for: macOS Big Sur

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

Description: This issue was addressed with improved checks.

CVE-2021-30835: Ye Zhang of Baidu Security

Entry added January 19, 2022

**ImageIO**

Available for: macOS Big Sur

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

Description: This issue was addressed with improved checks.

CVE-2021-30847: Mike Zhang of Pangu Lab

Entry added September 20, 2021

**Kernel**

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 memory handling.

CVE-2021-30830: Zweig of Kunlun Lab

Entry added September 20, 2021

**Kernel**

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 was addressed with improved input validation.

CVE-2021-30865: Zweig of Kunlun Lab

Entry added September 20, 2021

**Kernel**

Available for: macOS Big Sur

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

Description: A race condition was addressed with improved locking.

CVE-2021-30857: Zweig of Kunlun Lab

Entry added September 20, 2021

**Kernel**

Available for: macOS Big Sur

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

Description: A type confusion issue was addressed with improved state handling.

CVE-2021-30859: Apple

Entry added September 20, 2021

**LaunchServices**

Available for: macOS Big Sur

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

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

CVE-2021-30864: Ron Hass (@ronhass7) of Perception Point, Ron Waisberg (@epsilon)

Entry added January 19, 2022

### **libexpat**

Available for: macOS Big Sur

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

Description: This issue was addressed by updating expat to version 2.4.1.

CVE-2013-0340: an anonymous researcher

Entry added September 20, 2021

### **Login Window**

Available for: macOS Big Sur

Impact: A person with access to a host Mac may be able to bypass the Login Window in Remote Desktop for a locked instance of macOS

Description: A logic issue was addressed with improved checks.

CVE-2021-30813: Benjamin Berger of BBetterTech LLC, Aaron Hines of AHDesigns916, Peter Goettkindt of Informatique-MTF S.A.

Entry added May 25, 2022

### **Model I/O**

Available for: macOS Big Sur

Impact: Processing a maliciously crafted USD file may disclose memory contents

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

CVE-2021-30819

Entry added January 19, 2022

### **Preferences**

Available for: macOS Big Sur

Impact: An application may be able to access restricted files

Description: A validation issue existed in the handling of symlinks. This issue was addressed with improved validation of symlinks.

CVE-2021-30855: Zhipeng Huo (@R3dF09) and Yuebin Sun (@yuebinsun2020) of Tencent Security Xuanwu Lab (xlab.tencent.com)

Entry added September 20, 2021

### **Sandbox**

Available for: macOS Big Sur

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

Description: The issue was addressed with improved permissions logic.

CVE-2021-30925: Csaba Fitzl (@theevilbit) of Offensive Security

Entry added January 19, 2022

**Sandbox**

Available for: macOS Big Sur

Impact: A user may gain access to protected parts of the file system

Description: An access issue was addressed with improved access restrictions.

CVE-2021-30850: an anonymous researcher

Entry added September 20, 2021

**SMB**

Available for: macOS Big Sur

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

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

CVE-2021-30845: Peter Nguyen Vu Hoang of STAR Labs

Entry added September 20, 2021

**SMB**

Available for: macOS Big Sur

Impact: A remote attacker may be able to leak memory

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

CVE-2021-30844: Peter Nguyen Vu Hoang of STAR Labs

Entry added September 20, 2021

**WebKit**

Available for: macOS Big Sur

Impact: Processing maliciously crafted web content may lead to arbitrary code execution. Apple is aware of a report that this issue may have been actively exploited.

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

CVE-2021-30858: an anonymous researcher

## Additional recognition

**APFS**

We would like to acknowledge Koh M. Nakagawa of FFRI Security, Inc., for their assistance.

Entry added September 20, 2021, updated June 21, 2022

**App Support**

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Entry added September 20, 2021, updated May 25, 2022

**CoreML**

We would like to acknowledge hjy79425575 working with Trend Micro Zero Day Initiative for their assistance.

Entry added September 20, 2021

## CUPS

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Entry added September 20, 2021, updated May 25, 2022

## Kernel

We would like to acknowledge Anthony Steinhauser of Google's Safeside project for their assistance.

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## Sandbox

We would like to acknowledge Csaba Fitzl (@theevilbit) of Offensive Security for their assistance.

Entry added September 20, 2021

## smbx

We would like to acknowledge Zhongcheng Li (CK01) for their assistance.

Entry added September 20, 2021


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Yes

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