Looking to submit a Remote Code Execution vulnerability?

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SSD Advisory – macOS Finder RCE

- O September 21, 2021 SSD Disclosure / Technical Lead (https://ssd-disclosure.com/author/noamr/)
- Uncategorized (https://ssd-disclosure.com/category/uncategorized/)

TL;DR

Find out how a vulnerability in macOS Finder system allows remote attackers to trick users into running arbitrary commands.

Vulnerability Summary

A vulnerability in macOS Finder allows files whose extension is inetloc to execute arbitrary commands, these files can be embedded inside emails which if the user clicks on them will execute the commands embedded inside them without providing a prompt or warning to the user.

Credit

An independent security researcher, Park Minchan, has reported this vulnerability to the SSD Secure Disclosure program.

Affected Versions

macOS Big Sur and prior

Vendor Response

The vendor has been notified us that file:// has been silently patched the vulnerability in Big Sur and has not assigned it a CVE. We have notified Apple that File:// (just mangling the value) doesn't appear to be blocked, but have not received any response from them since the report has been made. As far as we know, at the moment, the vulnerability has not been patched.

Vulnerability Analysis

A vulnerability in the way macOS processes inetloc files causes it to run commands embedded inside, the commands it runs can be local to the macOS allowing the execution of arbitrary commands by the user without any warning / prompts.

Originally, inetloc files are shortcuts to an Internet location, such as an RSS feed or a telnet location; and contain the server address and possibly a username and password for SSH and telnet connections; can be created by typing a URL in a text editor and dragging the text to the Desktop.

The case here inetloc is referring to a file:// "protocol" which allows running locally (on the user's computer) stored files.

If the inetloc file is attached to an email, clicking on the attachment will trigger the vulnerability without warning.

Newer versions of macOS (from Big Sur) have blocked the file:// prefix (in the com.apple.generic-internet-location) however they did a case matching causing File:// or fIle:// to bypass the check.

Demo

Exploit

 $\textbf{Tags:} \quad \text{Remote Code Execution (Https://Ssd-Disclosure.com/Tag/Remote_code_execution/)}$

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Comments

Parkminchan

September 21, 2021 at 3:13 pm (https://ssd-disclosure.com/ssd-advisory-macos-finder-rce/#comment-1139)

It's not just possible in the 'Mail' application.

This vulnerability allows any program that can attach and execute files (iMessage, MS Office...) to Remote Code Execution from the operating system.

Reply

Tom

September 21, 2021 at 4:31 pm (https://ssd-disclosure.com/ssd-advisory-macos-finder-rce/#comment-1140)

Is there a way to pass arguments to the program that opens? Or run arbitrary commands? It seems this vulnerability can only be used to open Calculator.app or Terminal.app.

Reply

Dario Omar (Http://Plastore)

September 21, 2021 at 5:00 pm (https://ssd-disclosure.com/ssd-advisory-macos-finder-rce/#comment-1141)

Great find! Me gusta mucho esta app

Reply

Pingback: New macOS zero-day bug lets attackers run commands remotely (https://www.bleepingcomputer.com/news/apple/new-macos-zero-day-bug-lets-attackers-run-commands-remotely/)

Pingback: Vulnerabilidade no Mac permite execução remota de comandos – MacMagazine (https://macmagazine.com.br/post/2021/09/21/vulnerabilidade-no-mac-permite-execucao-remota-de-comandos/)

Pingback: A zero-day flaw allows to run arbitrary commands on macOS systems - MalwareHelp.com (https://malwarehelp.com/index.php/2021/09/22/a-zero-day-flaw-allows-to-run-arbitrary-commands-on-macos-systems/news/admin/)

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