



## VULNERABILITY BULLETINS

### New Samba Bug Allows Remote Attackers to Execute Arbitrary Code as Root



TLP:WHITE

Feb 04, 2022

Health-ISAC is issuing a vulnerability bulletin regarding multiple security vulnerabilities in the Windows/Linux interoperability suite Samba that if exploited, could allow remote attackers to execute arbitrary code with the highest privileges on affected installations.

Samba has since issued software updates to address these vulnerabilities, which concern an out-of-bounds heap read-write vulnerability, allowing remote attackers to execute arbitrary code as root on affected Samba installations that use the virtual file system (VFS) module vfs\_fruit. Installing the latest Samba security updates is highly recommended, and can be accessed [here](#).

More information on the vulnerabilities has been included further in this vulnerability bulletin for your security awareness.

Samba is an interoperability suite that allows Windows and Linux/Unix-based hosts to work together and share file and print services with multi-platform devices on a common network, including Server Message Block (SMB) file-sharing.

The chief flaw among these security vulnerabilities for Samba is CVE-2021-44142, which impacts all versions of Samba before 4.13.17 and concerns an out-of-bounds heap read/write vulnerability in the VFS module, `vfs_fruit`, which provides compatibility with Apple server message block clients.

The flaws also affect widely used Linux distributions such as Red Hat, SUSE Linux, and Ubuntu. The specific flaw exists within the parsing of metadata in the Samba server daemon when opening a file. An attacker can leverage this vulnerability to execute code in the context of root.

Two other flaws were also addressed in the latest update, CVE-2021-44141, which concerns an information leak via symlinks of the existence of files or directories outside of the exported share; and CVE-2022-0336, in which Samba AD users with permission to write into an account can impersonate arbitrary services.

More information on these vulnerabilities can be found [here](#) and [here](#).

**Reference(s)**

[Samba](#), [Zero Day Initiative](#), [Samba](#), [Samba](#), [Samba](#), [The Hacker News](#)

**CVE(s)**

CVE-2021-44142

CVE-2021-44141

CVE-2022-0336

**Recommendations**

Samba 4.13.17, 4.14.12, and 4.15.5 are the latest [patched versions](#); administrators are urged to upgrade to these releases as soon as possible.

Two workarounds can also be employed in case updating to the latest versions is not feasible.

1. Administrators can remove the fruit *module* from the list of VFS objects in Samba configuration files.
2. Administrators could also conceivably change the default settings for the *fruit:metadata* or *fruit:resource* modules, but Samba warned that this would cause all stored information to be inaccessible and will make it appear to macOS clients as if the information is lost.

### **Release Date**

Feb 04, 2022

### **Sources**

[Samba: Security Releases](#)

[Samba: More Information on CVE-2021-44142](#)

[Samba: More Information on CVE-2021-44141](#)

[Samba: More Information on CVE-2022-0336](#)

[Zero Day Initiative: Details on a Samba Code Execution Bug Demonstrated at PWN2OWN Austin](#)

[The Hacker News: New Samba Bug Allows Remote Attackers to Execute Arbitrary Code as Root](#)

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**Tags** Samba cifs-utils, Vulnerability Bulletin, Vulnerability, Samba Active Directory Domain Controller, Samba Software, Samba 4.10.5, Samba 4.9.9, Samba

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