

ManageEngine OpManager Remote Directory Deletion

Critical

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Synopsis

ManageEngine OpManager Remote Directory Deletion (CVE-2021-20078)

This is an unauthenticated path traversal remote directory deletion vulnerability in ManageEngine OpManager build 125346. The flaw exists in the Spark Gateway component in ManageEngine OpManager due to improper validation of user-supplied data prior to a directory deletion operation:

The vulnerability can be exploited with the following CURL command where the recording File is controlled via the 'server' URL parameter:

curl-i-H'Sec-WebSocket-Key: dZ5/5knh6Tky32w9JDXbD0=='-H'Sec-WebSocket-Version: 13'-H'Upgrade: websocket'http://<opmanager-host>:7275/RDP? server=../../.././_folder_to_be_deleted>/AAA&width=1440&height=788'

The recordingFile and the containing directory don't get deleted because the recordingFile is in use at the time of deletion. However, other files and sub-directories under the recordingFile's containing directory can be deleted. For example, if server=../../.../../.AAA is used, a file named C:\AAA.rdpv will be created on a Windows-based OpManager host and the OpManager (which runs as SYSTEM) will attempt to delete the entire C drive recursively. Although C:\AAA.rdpv will not be deleted, other files and sub-directories under C:\ can be deleted. This will not only delete some (deletable) OpManager files (i.e., DoS) but also cause the entire host in an unstable/unusable state.

Solution

Update ManageEngine OpManager to build version 125362.

Proof of Concept

curl-i-H'Sec-WebSocket-Key: dZ5/5knh6Tky32w9JDXbD0=='-H'Sec-WebSocket-Version: 13'-H 'Upgrade: websocket'http://<opmanager-host>:7275/RDP?server=./../.././_/folder_to_be_deleted>/AAA&width=1440&height=788'

Disclosure Timeline

03/02/2021 - Vulnerability Disclosed to Manage Engine

03/03/2021 - Manage Engine acknowledges disclosure

03/17/2021 - Tenable follows up on issue

 $03/17/2021\hbox{-} Manage\ Engine\ responds\ they\ expect\ to\ have\ it\ patched\ by\ next\ week$

 $03/26/2021 - Manage\ Engine\ says\ vulnerability\ has\ been\ fixed\ and\ release\ is\ in\ progress.\ Asks for\ vulnerability\ to\ be\ disclosed\ and\ tracked\ in\ zoho\ bugbounty\ portal.$

 $03/30/2021 - Tenable follows \, up, \, asking \, when \, expected \, release \, date \, will \, be \, for \, patch$

 $03/31/2021 - Manage\ Engine\ says\ patch\ is\ fixed\ and\ released\ in\ version\ 125362.\ Asks\ to\ delay\ disclosure\ to\ 90\ days\ so\ customers\ have\ time\ to\ update.$

03/31/2021 - Tenable responds that our policy dictates disclosure occurs if patch is publically released regardless of 90 days in order to prevent 1-day attacks.

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For more details on submitting vulnerability information, please see our Vulnerability Reporting Guidelines page.

If you have questions or corrections about this advisory, please email advisories@tenable.com

Risk Information

CVE ID: CVE-2021-20078

Tenable Advisory ID: TRA-2021-10

CVSSv3 Base / Temporal Score: 9.3

CVSSv3 Vector: AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:L/A:H

Risk Factor: Critical

Advisory Timeline

03/31/2021 - Advisory published.

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