



msdt.exe ms-msdt:/id PCWDiagnostic

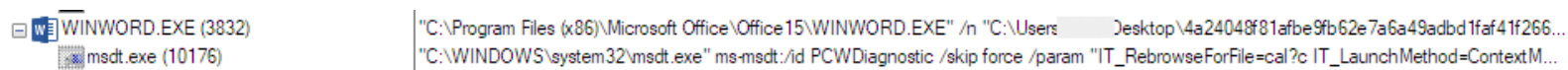


Malicious Word doc taps previously unknown Microsoft Office vulnerability

MSDT.exe misuse in May makes for Memorial Day Monday mayhem Written by [Andrew Brandt May 30, 2022](#) [SophosLabs Uncut](#) [Threat Research](#) [featured](#) [Follina](#) [Microsoft Office](#) [ms-msdt](#) [msdt](#) [msdt.exe](#) [vulnerability](#) [Zero-day](#)

Over the weekend, several security researchers [noticed](#) that an unknown threat actor has been spreading a malicious Word document that appears to invoke a previously undisclosed vulnerability in Microsoft Office. The vulnerability permits the malicious document to open a URL and begin an infection chain.

The infection process leverages the Windows utility msdt.exe, which is used to run various Windows troubleshooter packs. The malicious document that abuses this tool [invokes it](#) without user interaction, and it can allegedly run even if you just “preview” the document in Windows Explorer (but only if it’s an RTF file).



An example of how the malicious document appears in Process Explorer, spawning msdt.exe as a child of WINWORD.EXE

The researcher Kevin Beaumont has [published](#) a good survey of how the attack unfolds (he named it “Follina”) and has linked to other examples of malicious documents researchers have found in the past few days, some dating back to March.

How the exploit works

The script in one known-malicious Word document calls an HTML file from a remote URL. The attackers chose to use the domain xmlformats[.]com, probably because it’s very similar looking to the legitimate openxmlformats.org domain used in most Word documents.

