

Detecting Privilege Escalation Zero Day (CVE-2021-41379)

November 24th, 2021 - 3 min read

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On November 22, 2021, Security researcher [Abdelhamid Naceri dropped PoC](#) for a privilege escalation vulnerability ([CVE-2021-41379](#)) in the Windows installer that Microsoft had patched in November’s Patch Tuesday. The PoC works on all supported versions of Windows.

The specific flaw exists within the Windows Installer service. An attacker can abuse the Windows Installer service to delete a file or directory by creating a junction. Instead of providing the bypass, Naceri provided a more powerful variant of the vulnerability that allows an unprivileged user to run the command prompt as SYSTEM.

Naceri explained that his PoC would bypass any group policies configured to prevent normal users from performing MSI installations.

Detecting Exploitation in LogPoint

A naive detection approach for exploitation of this zero-day is via Application installation logs. Look out for the application name “test pkg” used in the PoC.

```
norm_id=WinServer label=Application label=Install application="test pkg"
```

Threat actors can

this configuration

Elevation Service

```
norm_id=Win
```

```
integrity_l
```

```
parent_comm
```

```
image="C:\W
```

Finally, we prese

prompt precede

```
[norm_id=Wi
```

```
as s1 follow
```

```
[norm_id=Wi
```

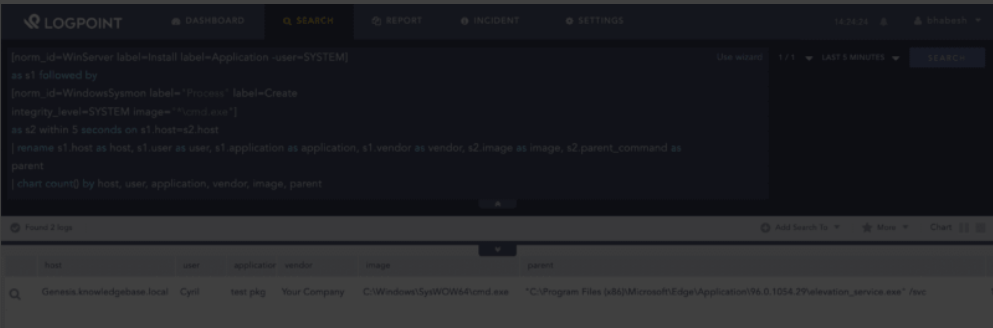
```
integrity_l
```

```
as s2 withi
```

```
| rename s1.host as host, s1.user as user, s1.application as application,
```

```
s1.vendor as vendor, s2.image as image, s2.parent_command as parent
```

```
| chart count() by host, user, application, vendor, image, parent
```



Monitor for exploitation attempt

According to Naceri, the best workaround available is to wait for Microsoft's patch. In the meantime, we recommend that enterprise defenders monitor for any exploitation attempt of this critical local privilege escalation (LPE) zero-day. As the PoC is public, we can expect ransomware and less sophisticated threat actors to add this in their arsenal to decrease their time to objective metric

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