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A simple Code Blog

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Sitecore 10 Authenticated File upload to RCE / CVE-2021-38366

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After looking for some extreme hardening of the Sitecore client I found a way to get Remote Code execution (RCE) via a Update center, described in this post.

It is possible for authenticated users, to upload arbitrary files, via update package functionality. It is possible for a malicious attacker to bypass file upload restrictions, hardened with the Sitecore hardening guide

hardened with the Sitecore hardening guide https://doc.sitecore.com/en/developers/101/platform-administration-and-architecture/security-guide.html and with secure file upload functionality, taken from this table.

https://doc.sitecore.com/developers/100/platform-administration-and-architecture/en/secure-thefile-upload-functionality.html.

Test Instance information

The test of this was done on a local Windows 10 machine with Sitecore 10 XM installation, installed via Graphical installation wizard see more information below



The Additional Filed upload restriction package was also installed with the following settings.

Steps to reproduce

Keep in mind this is a autheticated file upload, so a compromised user must be obtained.

1. Authenticate / Login to Sitecore



2. Once correctly logged in. Navigate to the Upload center

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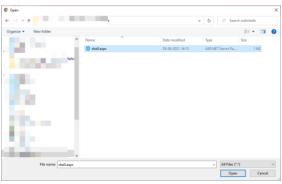
Navigated to update center

3. Choose/click the option to upload custom update



Upload via custom upload

4. Pick your custom webshell



Upload of custom webshell

5. If the installer hangs click anywhere in the windows, this is expected.



Uplaoder timesout / hangs

6. Since uploads of updates packages always goes into the same folder

https://HOSTNAME/sitecore/admin/Packages/

to find the uploaded file in our case

https://sc101cm.dev.local/sitecore/admin/Packages/shell.aspx

7. Now all that is left is running the webshell.



Running our uploaded webshell

Remediation

Disabled the Update center functionality

One way of doing the in add restriction to path in web.config like below

Other

```
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Kenneth McAndrew (@kmac23va) 10/08/2021 at 21:19 Reply

You say the remediation is to disable the update center. How do you go about doing

**** istern 11/08/2021 at 09:17 Reply

Hi Kenneth

Sorry somehow this part was missing, I've added in again, there might be better ways to do it but then one shown will limit all access to the updatecenter

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