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BlogHacking

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[CVE-2021-39267] File Upload Bypass SuiteCRM 7.11.18

In the project I was involved in, our customer using the open source SuiteCRM to serve their Business.

I discovered that It allowed user to upload file and execute the file by sending with &preview=true in the request of download.php or clicking the "view file icon" on the UI. Of course, SuiteCRM has limited the allowed file's extension by \$upload_badext variable.

After checking the allowed files, I decided to find an approach to perform a client-side attack with the uploaded file.

I found a vulnerability from the source code of download.php (SuiteCRM version 7.11.18) allowing an attacker to upload malicious files to perform a Stored XSS (Client-side Attack).

\$mime_type variable will be checked to ensure that its value is not 'text/html' to prevent a client-side attack. However, attackers can bypass this filter by using another Content-type which can run Javascript on Browser such as: text/xml, application/xhtml+xml, application/xml, image/svg+xml, application/hta, etc.

By uploading malicious files with Content-type which is not 'text/html' but can execute Javascript on browser, attackers can perform a Stored XSS attack when the user is viewing the malicious files.

This is my Proof of Concept:

 $1.\ Lines\ 200-208\ in\ Download.php\ will\ replace\ 'text/html'\ with\ 'text/plain'\ to\ prevent\ Client-side\ Attack$

2. Create the Malicious XML file

3. Upload the file we made





4. view the XML file



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