Stored XSS Vulnerability in Chronoforum v2.0.11 (Joomla plugin)

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nugmubs edited this page on Nov 16, 2020 · 6 revisions

Vulnerability Information

- Vendor: Chronoforums v2.0.11 (Joomla's plugin)
- Vulnerability : Stored XSS
- Impact : Joomla Homepage with the chronoforum plug-in

A Stored XSS vulnerability was found in the installable Chronoforums extension plug-in on Joomla's Plug-in Install page.

Discoverer

- nugmubs in Naver Business Platform (NBP)

Product

- chronoforums v2.0.11
- Chronoforums_v2.0.11_Extension.zip

Update Version

- It's still vulnerable.

History

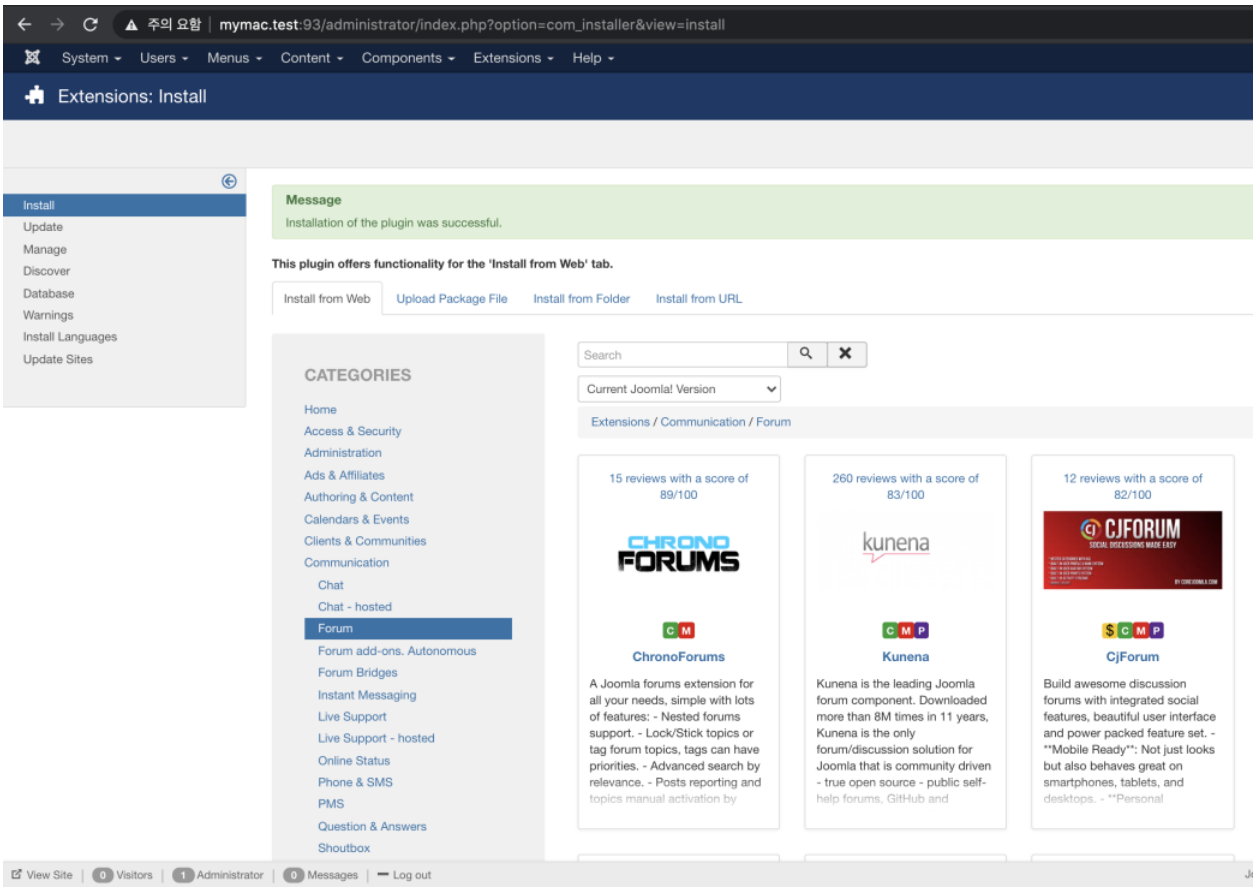
- 2020.08.26 Inform the vulnerability to chronoengines.com
- 2020.11.16 It still has the vulnerability

Overview of Vulnerability

ChronoForms 2.0.11 is affected by: Stored Cross Site Scripting (Stored XSS). The impact is: execute JavaScript in victim's browser, when the vulnerable page is loaded.

1. Install Chronoforum in Joomla plugin Installation Page.

- Install Chronoforum in Joomla Admin Page



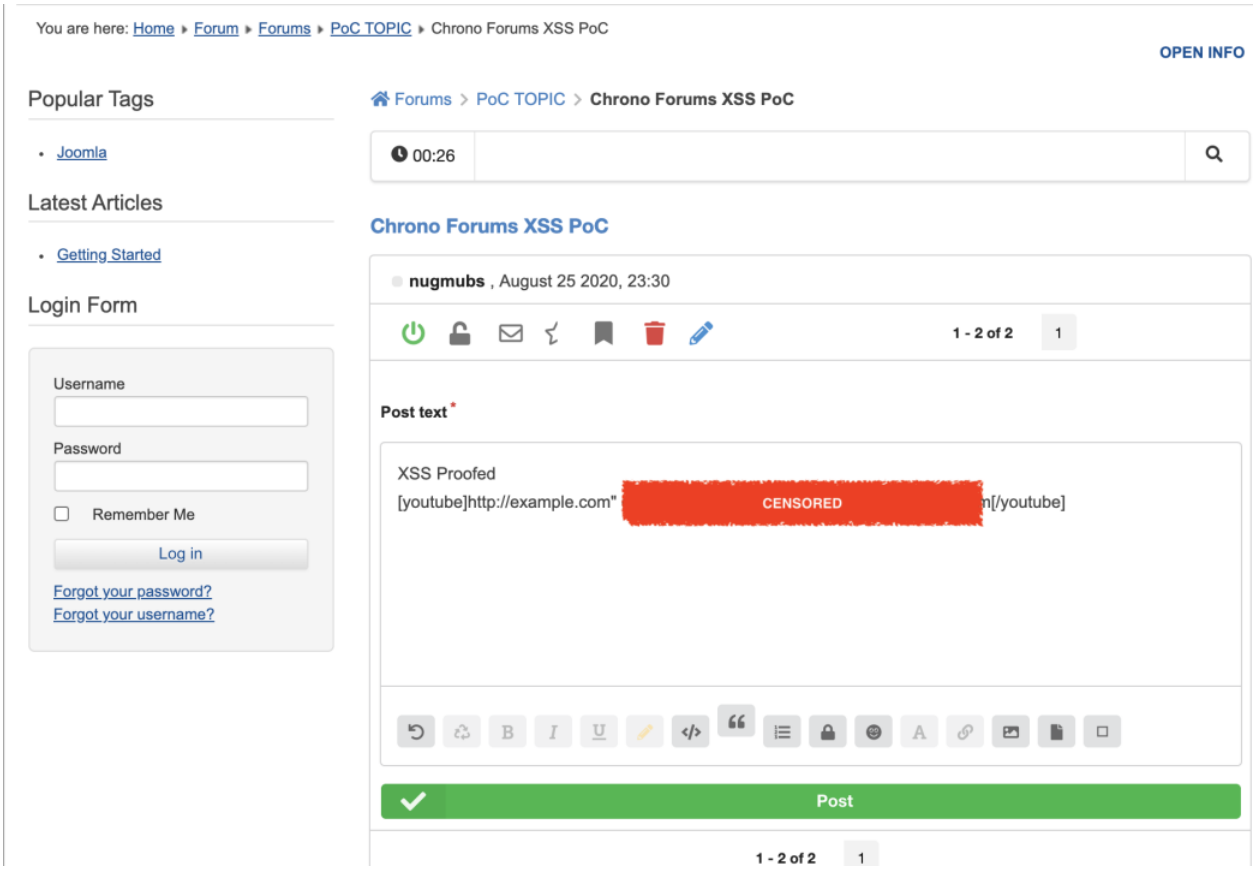
2. Inject Payload

The vulnerability exists when you enter Payload below in the New Topic creation screen of the Forum.

The JavaScript (semantic.min.js) creates an iframe, which results in the saved Payload operation resulting in an XSS vulnerability.

An attacker can steal a user's cookies or engage in malicious behavior through a stored XSS.

> Vulnerable Payload: [youtube]http://example.com" onload="alert('XSS Proofed')" http://example.com[/youtube]



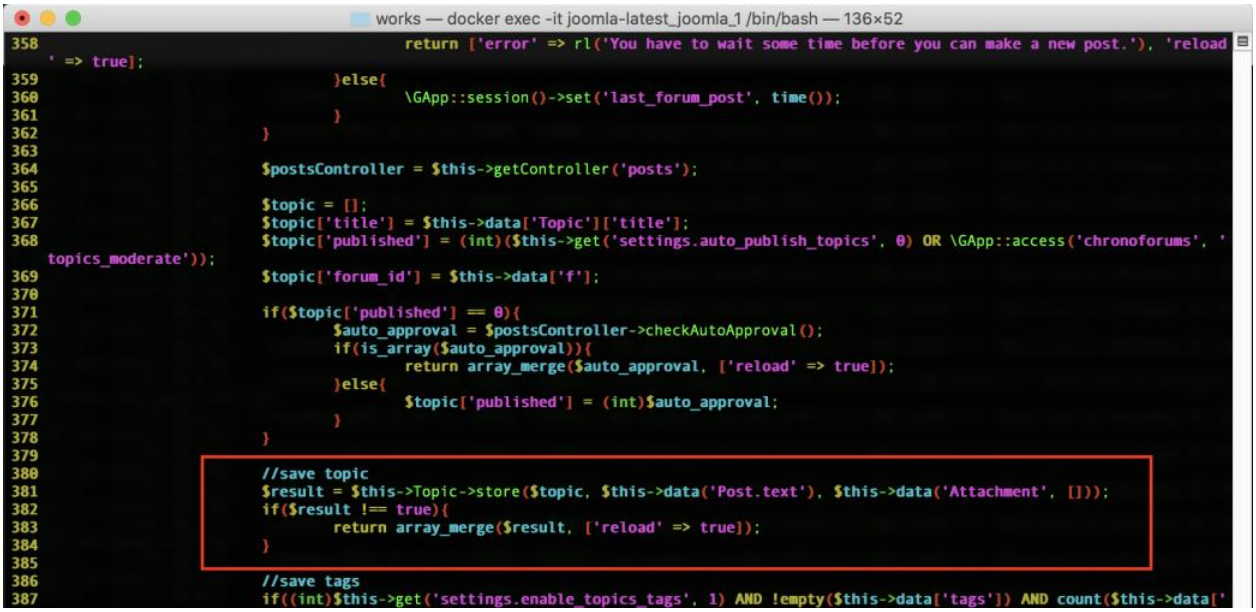
3. Vulnerable Source Code

`com_chronoforums2` extension accepts unsanitized inputs and stores it in the database. please, see the below picture.

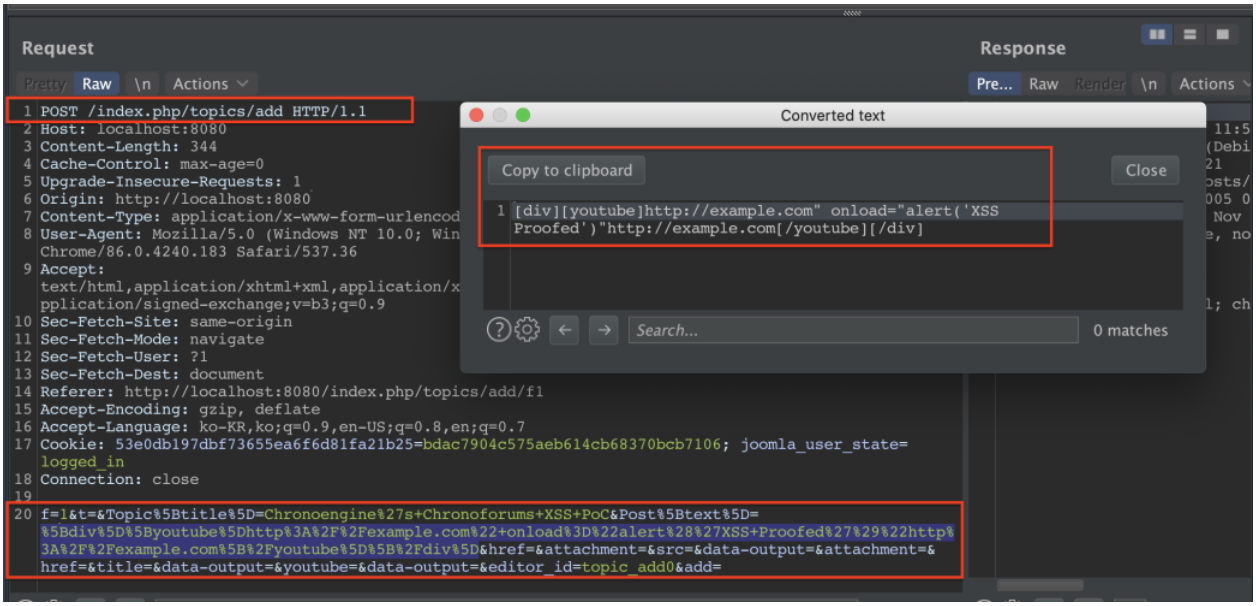
When the payload(`[youtube]http://example.com" onload="alert('XSS Proofed')" http://example.com[/youtube]`) is rendered on any browsers(Chrome, Safari, Firefox), injected payload is evaluated, then execute malicious javascript code.

/components/com_chronoforums2/chronoforums/controllers/topics.php:381

> If an unsanitized source object contained an enumerable **proto** property, it could extend the native Object.prototype.

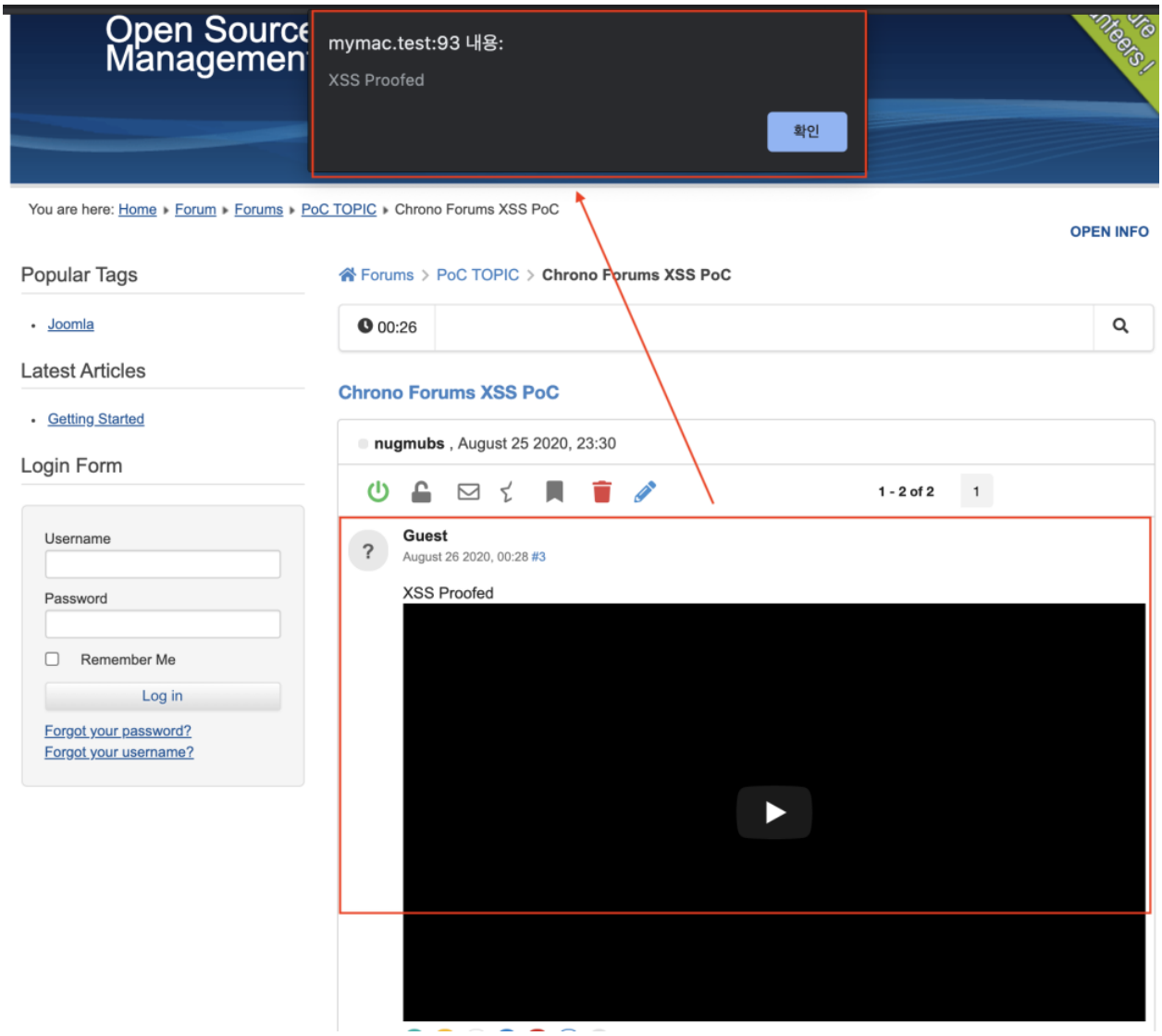


Vulnerable Path



5. PoC

Payload When the inserted page is loaded, the inserted code acts and the script runs.



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https://github.com/nugmubs/chronoforums-cve.wiki.git
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