

Maniphest T418222

Create Task

# CVE-2026-39934: With hidden mentees, ReassignMenteesJob runs as an infinite loop

Actions

Closed, Resolved

Public

SECURITY

### Assigned To

Urbanecm\_WMF

### Authored By

Urbanecm\_WMF  
2026-02-24 11:04:03 (UTC+0)

### Tags

- GrowthExperiments-Mentorship (New Tasks)
- Security
- Security-Team (Watching)
- MW-1.46-notes (1.46.0-wmf.17; 2026-02-24)
- SecTeam-Processed (Completed)
- Growth-Team (FY2025-26 Q3 Sprint 5) (Test in Production)

### Referenced Files

F72317056: T418222.patch  
2026-02-24 16:54:31 (UTC+0)

### Subscribers

- A\_smart\_kitten
- Aklapper
- ASanford-WMF
- Cyndymediawiksim
- DMburugu
- EMcFarland-WMF
- Etonkovidova

[View All 15 Subscribers](#)

### Description

I discovered `ReassignMenteesJob` runs over a thousand times per day for one cswiki former mentee:

```
[urbanecm@mwlog2002 /srv/mw-log]$ grep ReassignMenteesJob archive/GrowthExperiments.log-20260224 |
grep Felix220 | wc -l
1434
[urbanecm@mwlog2002 /srv/mw-log]$ zgrep ReassignMenteesJob archive/GrowthExperiments.log-20260223.gz
| grep Felix220 | wc -l
1426
[urbanecm@mwlog2002 /srv/mw-log]$
```

despite the mentor [resigned](#) over a month ago. The job is continuously rescheduled by the mechanism added in

**T354222: reassignMenteesJob is not able to finish in time when a mentor has too many mentees assigned** :

```
2026-02-23 01:17:59.041757 [9aa82291-b683-49b0-b4f1-0ea8f9900835] mw-jobrunner.codfw.main-
546746cf89-x62xw cswiki 1.46.0-wmf.16 GrowthExperiments INFO:
GrowthExperiments\Mentorship\ReassignMentees::doReassignMentees processing 0 mentees
{"mentees":0,"context.job_type":"reassignMenteesJob"}
2026-02-23 01:17:59.042473 [9aa82291-b683-49b0-b4f1-0ea8f9900835] mw-jobrunner.codfw.main-
546746cf89-x62xw cswiki 1.46.0-wmf.16 GrowthExperiments INFO: ReassignMenteesJob finished
reassignment with 1 status {"status":true,"context.job_type":"reassignMenteesJob"}
2026-02-23 01:17:59.043524 [9aa82291-b683-49b0-b4f1-0ea8f9900835] mw-jobrunner.codfw.main-
546746cf89-x62xw cswiki 1.46.0-wmf.16 GrowthExperiments INFO: ReassignMenteesJob did not reassign
all mentees, scheduling new job {"mentor":"Felix220","context.job_type":"reassignMenteesJob"}
```

despite there being zero mentees to process.

What is happening is this:

1. The mentor resigned, `ReassignMenteesJob` fires for the first time. It reassigns the mentees to someone else ([logs](#))
2. Once the reassignment finishes, the job checks `MentorStore::hasAnyMentees()` to see whether there are any mentees remaining (cf. [T354222](#) for why this was added)
3. `MentorStore::hasAnyMentees()` checks for *all* mentees (including mentees whose accounts were hidden by an oversighter). Felix220 does have one hidden mentee, so this method returns true.
4. `ReassignMenteesJob` fires again. It calls `MentorStore::getMenteesByMentor()` to find the list of mentees. By default, `MentorStore::getMenteesByMentor` `_ignores_` hidden mentees. For Felix220, it returns an empty array.
5. The job doesn't do anything and it returns successfully
6. We go back to step 2, and the process repeats...infinitely

This is happening since [r1077077: MentorStore::hasAnyMentees: Use more efficient implementation](#) ([T376124](#)), which we merged in 2024 (!), which removed the exclusion of hidden users in `MentorStore::hasAnyMentees()`.

◻ [WMF-NDA](#) queries confirming the above findings:

```
{P89004}
```

## Details

### RELATED CHANGES IN GERRIT:

Subject	Repo
---------	------

- 📄 SECURITY: ReassignMentees: Handle hidden users correctly [mediawiki/extensions/GrowthExperiments](#)
  - 📄 SECURITY: ReassignMentees: Handle hidden users correctly [mediawiki/extensions/GrowthExperiments](#)
  - 📄 SECURITY: ReassignMentees: Handle hidden users correctly [mediawiki/extensions/GrowthExperiments](#)
- [Customize query in Gerrit](#)

## Related Objects

### Mentions

#### Mentioned In

- [T411394: Write and send supplementary release announcement for extensions and skins with security patches \(1.43.7/1.44.4/1.45.2\)](#)
- [T418194: Mentors still having mentees after removing themselves](#)

#### Mentioned Here

- [T411394: Write and send supplementary release announcement for extensions and skins with security patches \(1.43.7/1.44.4/1.45.2\)](#)
- ~~[T354222: reassignMenteesJob is not able to finish in time when a mentor has too many mentees assigned](#)~~
- ~~[T376124: Removing a mentor from the list of mentors does not always reassign newcomers](#)~~

- 📄 **Urbanecm\_WMF** created this task. 2026-02-24 11:04:03 (UTC+0)
- 📄 📄 Restricted Application added a project: **Growth-Team**. · [View Herald Transcript](#) 2026-02-24 11:04:04 (UTC+0)
- 📄 📄 Restricted Application added a subscriber: **Aklapper**. · [View Herald Transcript](#)
- 📄 **Urbanecm\_WMF** updated the task description. ([Show Details](#)) 2026-02-24 11:07:04 (UTC+0)
- 📄 **Michael** subscribed. 2026-02-24 11:10:05 (UTC+0)
- 📄 **Michael** changed the visibility from "Public (No Login Required)" to "Subscribers". 2026-02-24 11:12:42 (UTC+0)
- 📄 **Michael** changed the edit policy from "All Users" to "Subscribers".
- 📄 **Urbanecm\_WMF** changed the visibility from "Subscribers" to "**Custom Policy**". 2026-02-24 11:19:06 (UTC+0)
- 📄 **Urbanecm\_WMF** changed the edit policy from "Subscribers" to "**Custom Policy**".
- 📄 **Urbanecm** changed the visibility from "**Custom Policy**" to "Public (No Login Required)".  
2026-02-24 11:19:57 (UTC+0)
- 📄 **Urbanecm** set Security to Software security bug.
- 📄 **Urbanecm** added projects: **Security**, **Security-Team**.
- 📄 **Urbanecm** changed the visibility from "Public (No Login Required)" to "**Custom Policy**".
- 📄 **Urbanecm** changed the subtype of this task from "Task" to "Security Issue".
- 📄 **Urbanecm** subscribed.
- 📄 📄 Restricted Application removed a subscriber: **Urbanecm**. · [View Herald Transcript](#) 2026-02-24 11:20:06 (UTC+0)
- 📄 **Urbanecm\_WMF** claimed this task. 2026-02-24 13:45:47 (UTC+0)

- 📄 **Urbanecm\_WMF** triaged this task as *High* priority.
- 📄 **Urbanecm\_WMF** edited projects, added ~~Growth-Team (FY2025-26 Q3 Sprint 4)~~; removed **Growth-Team**.
- 📄 **Urbanecm\_WMF** added subscribers: **Etonkovidova**, **EMcFarland-WMF**, **Cyndymediawiksim** and **4 others**.
- 📄 **Urbanecm\_WMF** mentioned this in **T418194: Mentors still having mentees after removing themselves**.  
2026-02-24 16:48:37 (UTC+0)

📄 **Urbanecm\_WMF** added a comment. 2026-02-24 16:54:31 (UTC+0) 🗑

Fix attached

📄 **T418222.patch** 8 KB  
[Download](#)

The fix needs to be applied on top of [r1243136](#) to ensure a clear application.

📄 **Urbanecm\_WMF** moved this task from **Incoming** to **Code Review** on the ~~**Growth-Team (FY2025-26 Q3 Sprint 4)**~~ board. 2026-02-24 16:59:29 (UTC+0)

📄 **Michael** added a comment. 2026-02-25 14:52:08 (UTC+0) 🗑

In **T418222#11647157**, **@Urbanecm\_WMF** wrote:

*Fix attached*

📄 **T418222.patch** 8 KB  
[Download](#)

*The fix needs to be applied on top of [r1243136](#) to ensure a clear application.*

This looks sensible to me. I give it my virtual +2

📄 **Urbanecm\_WMF** moved this task from **Code Review** to **Doing** on the ~~**Growth-Team (FY2025-26 Q3 Sprint 4)**~~ board. 2026-02-25 15:04:31 (UTC+0) 🗑

Thanks! Moving to Doing, I'll deploy it soon.

📄 **Urbanecm\_WMF** added a comment. 2026-02-25 15:25:59 (UTC+0) 🗑

This is not the easiest patch to deploy... To be able to deploy it w/o merge conflicts, we need to pull a bunch of code refactors to production... Here is a list of patches to backport to wmf.16:

```
095f9d41a79f5678bcd712b3381b6c687b2498b5 (Sergio, geForceVariant)
7d8940d87cbce001ac836ca78e4f9e27192a9a63 (SiteNotice)
d7c8e88419b102a2a5aa486c1908c530bfda06dd (IExperimentManager)
9a41649aeaa90fc3625f383aeea33e5efe2c37ea (Thiemo, PHPDoc)
582cf4260f0c43f588b0b9dc0a68b1ef3c0e6a97 (Urbanecm, cCleanup)
d9bbbc9b28c4586551d33c09e8f1f111539d6de3 (Urbanecm, test)
```

(the last two patches also need to be pulled to wmf.17, the rest is already there)

Doing this now...

Urbanecm\_WMF added a subscriber: **gerritbot**. 2026-02-25 16:03:42 (UTC+0)

Change #1243874 had a related patch set uploaded (by Urbanecm; author: 2026-02-25 16:03:52 (UTC+0) | Urbanecm):

[mediawiki/extensions/GrowthExperiments@master] SECURITY: ReassignMentees: Handle hidden users correctly

Change #1243874 **merged** by jenkins-bot: 2026-02-25 16:37:37 (UTC+0) |

[mediawiki/extensions/GrowthExperiments@master] SECURITY: ReassignMentees: Handle hidden users correctly

Jdforrester-WMF added a project: **MW-1.46-notes (1.46.0-wmf.18; 2026-03-03)**. 2026-02-25 17:17:31 (UTC+0)

Change #1244011 had a related patch set uploaded (by Urbanecm; author: 2026-02-25 23:09:28 (UTC+0) | Urbanecm):

[mediawiki/extensions/GrowthExperiments@wmf/1.46.0-wmf.17] SECURITY: ReassignMentees: Handle hidden users correctly

Change #1244012 had a related patch set uploaded (by Urbanecm; author: 2026-02-25 23:09:53 (UTC+0) | Urbanecm):

[mediawiki/extensions/GrowthExperiments@wmf/1.46.0-wmf.16] SECURITY: ReassignMentees: Handle hidden users correctly

Change #1244012 **merged** by jenkins-bot: 2026-02-25 23:24:38 (UTC+0) |

[mediawiki/extensions/GrowthExperiments@wmf/1.46.0-wmf.16] SECURITY: ReassignMentees: Handle hidden users correctly

Change #1244011 **merged** by jenkins-bot: 2026-02-25 23:24:44 (UTC+0) |

[mediawiki/extensions/GrowthExperiments@wmf/1.46.0-wmf.17] SECURITY: ReassignMentees: Handle hidden users correctly

Urbanecm\_WMF added a subscriber: **ReleaseTaggerBot**. 2026-02-25 23:33:17 (UTC+0)

Urbanecm changed the visibility from "**Custom Policy**" to "Public (No Login Required)".

2026-02-25 23:39:23 (UTC+0)

Urbanecm changed the edit policy from "**Custom Policy**" to "All Users".

Urbanecm\_WMF moved this task from **Doing** to **QA** on the **Growth Team (FY2025-26 Q3 Sprint 4)** board.

2026-02-25 23:41:50 (UTC+0)

Mission succeeded. The amount of `reassignMenteesJob` jobs should drop.

ReleaseTaggerBot edited projects, added ~~MW-1.46-notes (1.46.0-wmf.17; 2026-02-24)~~; removed ~~MW-1.46-notes (1.46.0-wmf.18; 2026-03-03)~~. 2026-02-26 00:00:13 (UTC+0)

sbassett moved this task from **Incoming** to **Watching** on the **Security-Team** board.  
2026-03-02 17:26:59 (UTC+0)

sbassett added a project: **SecTeam-Processed**.

sbassett added subscribers: **ASanford-WMF**, **sbassett**.

Thanks for the quick work to fix this issue and get it deployed and backported! [@ASanford-WMF](#) will track this for the next Wikimedia supplemental security release ([T411394](#)).

ASanford-WMF mentioned this in [T411394: Write and send supplementary release announcement for extensions and skins with security patches \(1.43.7/1.44.4/1.45.2\)](#). 2026-03-03 19:46:46 (UTC+0)

DMburugu moved this task from **QA** to **Test in Production** on the **Growth-Team (FY2025-26 Q3 Sprint 4)** board.  
2026-03-10 14:48:43 (UTC+0)

DMburugu edited projects, added **Growth-Team (FY2025-26 Q3 Sprint 5)**; removed **Growth-Team (FY2025-26 Q3 Sprint 4)**. 2026-03-11 11:17:55 (UTC+0)

DMburugu moved this task from **Incoming** to **Test in Production** on the **Growth-Team (FY2025-26 Q3 Sprint 5)** board.

Etonkovidova closed this task as *Resolved*. 2026-03-13 18:22:40 (UTC+0)

Checked <https://logstash.wikimedia.org/goto/9d01ba6b23f6f82853c3e50f1bc0cc17> for `ReassignMenteesJob` - the number of reports is low now.

sbassett added a comment. 2026-03-13 21:05:17 (UTC+0)

The security patches were pushed through gerrit I believe, so we should be fine to make this task public now, correct, [@Urbanecm\\_WMF](#) ?

Mstyles renamed this task from *With hidden mentees, ReassignMenteesJob runs as an infinite loop* to *CVE-2026-39934: With hidden mentees, ReassignMenteesJob runs as an infinite loop*. 2026-04-07 22:29:22 (UTC+0)

A\_smart\_kitten subscribed. 2026-04-08 10:15:22 (UTC+0)