OOM kill of enforce-xfs-quota on neurohackademy

Status: Draft

Overview

The enforce-xfs-quota container experienced OOM following quota changes

What Happened

The hard quota for the neurohackademy prod hub was modified, leading to an update of all projects. The generator script encountered an OOM error when processing a large directory (_shared).

Resolution

Running the script in a debug container was successful, which brought the filesystem attributes into agreement with their expected values. This removes the need for the generator loop to reconcile any projects.

Where we got lucky

The engineer noticed this when comparing configurations between clusters.

What Went Well?

The time to actually resolve the incident was fairly quick.

What Didn't Go So Well?

We had no alerting that this was happening, as the pod itself did not restart.

Action Items

- Establish mechanism to detect these failures in future
- Modify enforce-xfs-quota script to reduce likelihood of OOM.

OWNER OF REVIEW PROCESS

Angus

IMPACT TIME

Oct 16 at 15:00 to Oct 16 at 16:14

DURATION

1h 14m

*All times listed in this report are in Edinburgh, London.

Timeline

Oct 16, 2025

3:42 PM	An engineer notices the enforce-xfs-quota container restarting
3:47 PM	The engineer creates a debug container and runs the generator
4:00 PM	The engineer successfully ran the script, and investigated why it was crashing for the main container