

# Improvement of SHOAL

A Dynamic Web Cache Publishing Tool

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# SHOAL Overview

- An existing tool developed by the UVic High Energy Physics (HEP) Group and is currently of interest for use at CERN.
- Tracks the creation and deletion of proxy servers (  ) that help cache software needed to run intensive HEP loads.

# Why SHOAL

1. The current version's performance is acceptable but there is room for improvement.
2. Improve for scalability (potential to serve more than 100,000+ requests/minute in production).
3. Improve usability of the web GUI.

# Improvements

1. Employ a new Python framework tailored for performance.
2. Implement a new algorithm to speed up computationally expensive operations.
3. Implement a new web interface for tracking proxy (  ) servers.

