

# Scalability and performance watchlist

This page is for Sakai issues arising from technical or architecture design decisions that impact negatively on scalability or performance.

## Slow tools

### Forums

Mostly resolved in 2.5, though still shows slow performance for:

- very large topics (say 500+ messages)
- synoptic tool in my workspace
- sites with a large number of groups

 [SAK-11798](#) - Evaluate Forums Performance from a "site with a large number of groups" perspective CLOSED

### Messages

- Scalability issues sending messages in sites with large membership

 [SAK-14626](#) - Serious scalability issue with Messages tool CLOSED ,

 [SAK-14392](#) - When sending by email messages should use bulk sending CLOSED

### Assignments

(resolved in 2.5)

### Resources / Content Hosting

(improved in 2.5)

### Gradebook

(mostly resolved in 2.5?)

### Email Archive

(resolved in 2-5-x)

## Tools / services which affect app server stability and performance

JSF "stuck threads" issue:

- Tests and Quizzes:  [SAK-11098](#) - Stuck threads use excessive CPU RESOLVED

## SQL Optimization

### Table and index structure

### Slow DB queries

-  [SAK-38612](#) - Queries for permission checks are slow in large sites CLOSED : Permissions checks slow in sites with large membership

## Volume of database queries

-  [SAK-9862](#) - Excessive db queries from permissions change in sites with provided users RESOLVED : Excessive db queries generated from permissions updates in sites with provided users.
-  [SAK-10859](#) - Reduce number of CM queries required when user logs in (hibernate impl) CLOSED : Reduce number of CM queries required when user logs in (hibernate impl)

## Completed issues

- [SAK-8932](#) - Runaway CPU use on app server **CLOSED** : Chat "stuck threads"
- [SAK-11636](#) - HTTP Basic operations create a login event for each request and refreshes authzgroups. **CLOSED** : HTTP Basic operations create a login event for each request and refreshes authzgroups
- [SAK-9860](#) - Excessive db queries generated from Site Info / user service **CLOSED** : Excessive db queries generated from Site Info / user service. Site Info generates 5 db queries for every site member (1 to SAKAI\_USER and 4 to SAKAI\_USER\_ID\_MAP).
- [SAK-9887](#) - Excessive db queries for dropbox on site update actions **CLOSED** : Excessive db queries for dropbox on site update actions
- [SAK-10021](#) - DropBox Performance Problems **CLOSED** : Dropbox Performance Problems
- [SAK-8780](#) - Poor performance finding open sessions on MySQL and Oracle **CLOSED** : The table structure of SAKAI\_SESSION forces the db (at least mysql) to do a full table scan to find out which sessions are currently open.
- [SAK-5943](#) - Email archive viewing performance degrades with number of messages **CLOSED** ,
- [SAK-11544](#) - Improve performance of existing Mail Archive Tool **CLOSED** : Performance degrades with a large number of messages
- [SAK-13021](#) - Overview page generates too many queries leading to performance issues **CLOSED** : Section Info: Overview page generates too many queries leading to performance issues
- [SAK-13312](#) - Improve Group performance -- especially Site.getGroupsWithMember() method **CLOSED** : Improve Group performance