

Access to Memory (AtoM) - Task #13360

Investigate alternatives to the default transaction isolation level

06/15/2020 11:21 PM - José Raddaoui Marín

Status:	New	Start date:	06/15/2020
Priority:	Medium	Due date:	
Assignee:		% Done:	0%
Category:	Internals	Estimated time:	0.00 hour
Target version:		Tested version:	2.6
Google Code Legacy ID:		Requires documentation:	
Sponsored:	No		

Description

We have been seeing DB deadlocks lately, in web requests (#12709) and CSV import (#13354) for example. We should analyze if using a different transaction isolation level could improve the situation.

Initial research:

- Designing Data-Intensive Applications (Chapter 7)
- <https://dev.mysql.com/doc/refman/8.0/en/commit.html>
- <https://www.oreilly.com/library/view/mysql-reference-manual/0596002653/ch06s07.html>
- <https://mariadb.com/kb/en/set-transaction>
- <https://dev.mysql.com/doc/refman/8.0/en/innodb-locks-set.html>
- <https://dev.mysql.com/doc/refman/8.0/en/innodb-autocommit-commit-rollback.html>

My initial impression is that to avoid the deadlock we could introduce lost updates and that we shouldn't change the current isolation level.

History

#1 - 06/15/2020 11:23 PM - José Raddaoui Marín

- Description updated