


[Add PostgreSQL support to KMS](#) (LAS-19038)

 [LAS-23508] [Add PostgreSQL support to KMS backend](#) Created: 24/May/23
Updated: 11/Sep/25

Status: In Dev
Project: [Lighthouse Agile Scrum](#)
Components: [Core](#)
Affects versions: None
Fix versions: [25.9.0](#)
Parent: [Add PostgreSQL support to KMS](#)

Type:	Story	Priority:	Medium
Reporter:	Roman Petrov	Assignee:	Ilia Kryukov
Resolution:	Unresolved	Votes:	0
Labels:	LAS-19038, LAS-23508, RM_Locked		
Remaining Estimate:	10 weeks, 2 days		
Time Spent:	2 days		
Original estimate:	10 weeks, 4 days		

Attachments:

 Screenshot 2025-04-01 at 14.23.42.png

Issue links:

Before/After

has to be done before [LAS-55975](#) Check and create all the indexes need... Draft

Blocks

is blocked by [OPS-740](#) [PostgreSQL] An item title containing... In Progress

is blocked by [LAS-58158](#) Add PostgreSQL support for unit tests... Closed

is blocked by [LAS-56572](#) [PostgreSQL] An item title containing... In Dev

Customer issue

From Customer [LAS-55965](#) TE Enable Postgre Sql LAS-52385 In QA

Defect

created [LAS-55969](#) [PostgreSQL] Error encountered while ... Closed

created [LAS-55970](#) [PostgreSQL] Error encountered while ... Closed

Hierarchy [Gantt]

		[PostgreSQL]	
is parent	LAS-47660	[BE] Add postgresql liqui...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52347	[BE] Fix postgresql liqui...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52366	[BE] Fix native KMS SQL q...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52367	[BE] Add PostgreSQL suppo...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52382	[BE] Make database switch...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52383	[BE] Make cloud scheduler...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52385	[BE] Fix kms-backend to s...	Closed
of			
		[PostgreSQL]	
is parent	LAS-52473	[BE] Fix postgresql liqui...	Closed
of			
		[PostgreSQL]	
is parent	LAS-55325	[BE] Add PostgreSQL suppo...	Closed
of			
		[PostgreSQL]	
is parent	LAS-55326	[BE] Add PostgreSQL suppo...	Closed
of			
		[PostgreSQL]	
is parent	LAS-55327	[BE] Add PostgreSQL suppo...	Closed
of			
		[PostgreSQL]	
is parent	LAS-55328	[BE] Add PostgreSQL suppo...	Closed
of			
		[PostgreSQL]	
is parent	LAS-55477	[BE] rebase story branch ...	Closed
of			

		[Gitlab-CI]	
is parent of	OPS-389	Add PostgreSQL test run i...	To Do
		[PostgreSQL]	
is parent of	LAS-52388	[BE] Create migration too...	Ready for QA
		[PostgreSQL]	
is parent of	LAS-58547	[BE] bugfix placeholder	Draft
		[PostgreSQL]	
is parent of	LAS-58774	[BE] bugfix placeholder	Draft
		[PostgreSQL]	
is parent of	LAS-52503	[BE] Add PostgreSQL suppo...	In Dev
		[PostgreSQL]	
is parent of	LAS-58154	[BE] rebase story branch ...	QA Blocked
		[PostgreSQL]	
is parent of	LAS-58536	[BE] Fix KMS start and mi...	Dev Testing

Relates

relates to	OPS-260	Enable PostgreSQL Support for KMS App...	Done
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Test

is tested by	LAS-55967	[PostgreSQL] Search doesn't work (ind...	Closed
		[PostgreSQL]	
is tested by	LAS-55968	[PostgreSQL] Search doesn't work	Closed
		[PostgreSQL]	
is tested by	LAS-55969	Error encountered while ...	Closed
		[PostgreSQL]	
is tested by	LAS-56563	Incorrect order of the i...	Closed
		[PostgreSQL]	
is tested by	LAS-57834	Db changes in monitoring...	Closed
		[PostgreSQL]	
is tested by	LAS-56941	The Settings	Closed

		page curren...	
		[PostgreSQL]	
is tested by	LAS-56942	Impossible upload mp4 file	Closed
		[PostgreSQL]	
is tested by	LAS-57163	DB Errors when starting ...	Closed
		[PostgreSQL]	
is tested by	LAS-56508	Incorrect order of the e...	Closed
		[Add PostgreSQL support to KMS backen...	
is tested by	LAS-56405	[Add PostgreSQL support to KMS backen...	Done
		[Add PostgreSQL support to KMS backen...	
is tested by	LAS-56404	[Add PostgreSQL support to KMS backen...	In QA
		[Add PostgreSQL support to KMS backen...	
is tested by	LAS-56403	[Add PostgreSQL support to KMS backen...	Draft
		[PostgreSQL]	
is tested by	LAS-56572	An item title containing...	In Dev
		[PostgreSQL]	
is tested by	LAS-56553	Impossible to create a ...	Dev Testing

Sprint:

Epic Link:

Code Reviewer:

QA:

QA Estimation:

Squad:

Product Manager:

Merge Request Link:

[Add PostgreSQL support to KMS](#)

Alexey Udalykh

Feodor Beresnyov

Days - 5

Charoite

Roman Petrov

Story private branch → into dev:

<https://kmsgit.lighthouse-cloud.com/kms/kms-trunk//merge-requests/11996->

<https://kmsgit.lighthouse-cloud.com/kms/kms-trunk/-/merge-requests/12639>

Affected Layer:

Dev Notes:

BE

Story private branch:

<https://kmsgit.lighthouse-cloud.com/kms/kms-trunk//tree/>

[LAS-23508-Add-PostgreSQL-support-](#)

<https://kmsgit.lighthouse-cloud.com/kms/kms-trunk/-/tree/LAS-23508-Add-PostgreSQL-support-alexey>

HL BE Estimations:	XL - (over 40 days)
HL FE Estimations:	0 days
Release Commitment:	Yes
RM Planned:	Yes

Description

Multilanguage support was added only for MySQL databases in 7.6 MR3 and PostgreSQL support in KMS was suspended. For VTB customer we need to fix PostgreSQL support. Also, we plan to migrate all our environments from MySQL to PostgreSQL because of MySQL technical limitations. The migration itself is not in story scope but all migration tools should be created and tested.

Steps:

- Fix native KMS SQL queries to support PostgreSQL
- Add PostgreSQL support to <https://kmsgit.lighthouse-cloud.com/kms/vanilla-db> repository
- Make database switch easier using default KMS profiles
- Make cloud scheduler setup easier using default KMS profiles
- Fix KMS start from vanilla on PostgreSQL dump from <https://kmsgit.lighthouse-cloud.com/kms/vanilla-db> repository
- Create migration tool from MySQL to PostgreSQL and test it with big existing production dumps (see related task: <https://kms-lighthouse.atlassian.net/browse/LAS-7104>)

Acceptance criteria:

- A new KMS PostgreSQL dump is created in <https://kmsgit.lighthouse-cloud.com/kms/vanilla-db> repository on each push to dev branch in <https://kmsgit.lighthouse-cloud.com/kms/kms-trunk> or <https://kmsgit.lighthouse-cloud.com/kms/item-uploader> repository
- KMS database vanilla instance could be easily created with docker images. The server image could start PostgreSQL with KMS dump inside. The client image could push KMS dump into external PostgreSQL instance.
- QA automation tests passed with PostgreSQL configuration
- Regression tests passed successfully on QA environment
- Regressions tests passed after MySQL->PostgreSQL migration for a big customer
- When story is done we need to create additional story to remove MySQL, Oracle, and MSSQL support from KMS

Comments

Comment by [Anna Yehezkel](#) [06/Mar/25]

Removing Fixversion to backlog, This story was not requested to be approved and curently is not part of the approved scope.

this should be planned according to scoping approval of the release planning.

[Lev Garkavy](#) [Nikolay Ivannikov](#) [Roman Petrov](#) if this is required, please advise on target release and approach me for proper approvals.

Comment by [Ilia Kryukov](#) [31/Mar/25]

[Anna Yehezkel](#) , not 8.0, more likely it will be in 8.1\8.2

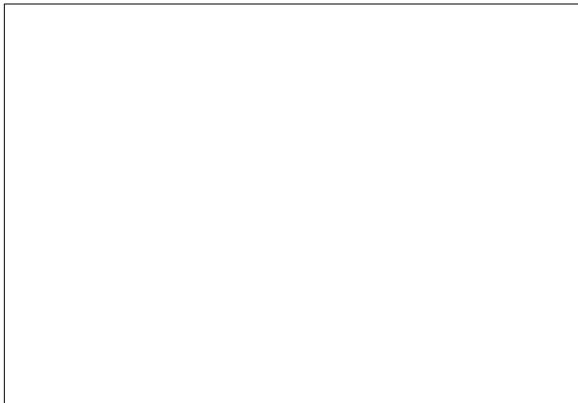
Comment by [Anna Yehezkel](#) [31/Mar/25]

10 BE MD is planned to be invested during 8.0 timeline

Comment by [Aleksei Ermakov](#) [01/Apr/25]

[Roman Petrov](#) [Bulat Bilalov](#) You can use add 'dbType' property in local.properties in tests with value 'postgres' to execute all the tests with Postgres test container.

Probably it will be needed to replace the dump.



Comment by [Roman Petrov](#) [15/Apr/25]

[Ilia Kryukov](#) [Bulat Bilalov](#) I suggest the following order for the remaining tasks:

<https://kms-lighthouse.atlassian.net/browse/LAS-52503>

<https://kms-lighthouse.atlassian.net/browse/DOK-455>

<https://kms-lighthouse.atlassian.net/browse/LAS-52367>

<https://kms-lighthouse.atlassian.net/browse/LAS-52366>

<https://kms-lighthouse.atlassian.net/browse/LAS-52388>

Comment by [Anna Yehezkel](#) [22/May/25]

Moving to Backlog as part of Jira reset cleaning.

Comment by [Ilia Kryukov](#) [25/May/25]

[Anna Yehezkel](#) , [Nikolay Ivannikov](#) , its not in backlog, its in progress for a few upcoming releases.

Comment by [Anna Yehezkel](#) [27/May/25]

[Ilia Kryukov](#) [Nikolay Ivannikov](#) this should be planned as 5% of each release split allocation - please work with [Petar Miljkovic](#) to include relevant tasks that fit this capacity split

Comment by [Nikolay Ivannikov](#) [27/May/25]

[Anna Yehezkel](#) it's not tech debt, it's requirement from business and future tech needs

Comment by [Anna Yehezkel](#) [27/May/25]

In that case [Sapir Zalach](#) , [Shira Shanny](#) please guide us on priorities

[Petar Miljkovic](#) , [Amir Benyamini](#)

Comment by [Sapir Zalach](#) [28/May/25]

[Anna Yehezkel](#) , I'm not familiar with this ticket, so if it's important, I'd like to suggest setting up a meeting to discuss it and assess whether we can include it in one of the upcoming versions. **At the moment, version 7.13 is already full.**

CC [Nikolay Ivannikov](#) [Ilia Kryukov](#) [Roman Petrov](#)

Comment by [Ilia Kryukov](#) [28/May/25]

[Sapir Zalach](#) , [Anna Yehezkel](#) , we are currently working on this story, see tasks in "In Dev" status.

Comment by [Sapir Zalach](#) [29/May/25]

[Ilia Kryukov](#) , How much development time is left?

Comment by [Anna Yehezkel](#) [03/Jun/25]

Hi All,

this is not approved neither for 7.12 nor for 7.13

Please stop the work immediately and plan it accordingly for the future releases.

our focus as of today 7.11.3 and 7.12 commitments.

Please move all unresolved linked tasks to backlog and update their status back to dev.

[Petar Miljkovic](#) , [Ilia Kryukov](#) , [Sapir Zalach](#)

Comment by [Anna Yehezkel](#) [10/Jun/25]

[Roman Chernis](#) and [Nir Ovshenko](#) [Rina Kvetney](#)

[Kfir Zuckerman](#) and [Nikolay Ivannikov](#) requested this to add to 7.13 - can we please review and advise if possible (we also have 5% techdebt unallocated)

Comment by [Ilia Kryukov](#) [10/Jun/25]

[Anna Yehezkel](#) , the main part of the development already finished by Charoite.

Comment by [Ilia Kryukov](#) [10/Jun/25]

[Anna Yehezkel](#) , I'm talking about context switch.

You stopped this story a few days ago, moved it to backlog,

and now you moving this story with partially finished tasks (not finalized, without merge requests, etc) to another team ?

Are you sure?

I understand the "capacity issue", but it better to add/move some of the capacity from other squads instead of completely move partially finished story.

Emerald team have to start unfinished tasks from the scratch, its time wasting.

[Nikolay Ivannikov](#) , FYI

Comment by [Anna Yehezkel](#) [10/Jun/25]

[Ilia Kryukov](#) we should work only on officially approve scope to avoid such.

curently I am not yet moving anything, I am asking another team to review and and advise on their plan to deliver it only then we can see if the plan is approved or not.

thank you

Comment by [Roman Chernis](#) [10/Jun/25]

In terms on BE I should

1. count how much BE capacity we have

2, sit with [Roman Petrov](#) to understand what is the remaining estimation for this story

but in terms of QA no chance we have capacity in Emerald like I described in separate email.

Comment by [Anna Yehezkel](#) [10/Jun/25]

final desision it is going back to charoite [Ilia Kryukov](#)

cc: [Roman Chernis](#) , [Rina Kvetney](#)

Comment by [Sapir Zalach](#) [11/Jun/25]

[Ilia Kryukov](#) ?

Comment by [Anna Yehezkel](#) [08/Jul/25]

[Ilia Kryukov](#) and [Petar Miljkovic](#) agreed with Kfir and Nik to postpone to 7.14. Thank you

cc: [Sapir Zalach](#) and [Amir Benyamini](#) , [Shira Shanny](#) - this is going to delay article score stories

Comment by [Anna Yehezkel](#) [12/Aug/25]

7.14.1 Released and 7.14.1 is canceled, therefore moved to 25.8

Comment by [Anna Yehezkel](#) [01/Sep/25]

25.8 Release is closed,

Moving this to 25.9

Comment by [Anna Yehezkel](#) [01/Sep/25]

25.8 Release is closed,

Moving this to 25.9

Generated at Sun Sep 14 13:39:01 UTC 2025 by Anna Yehezkel using Jira 1001.0.0-SNAPSHOT#100289-rev:254157429849ae3c7329f9ceaa07d3e001e6f5e6.