



dbplus.tech

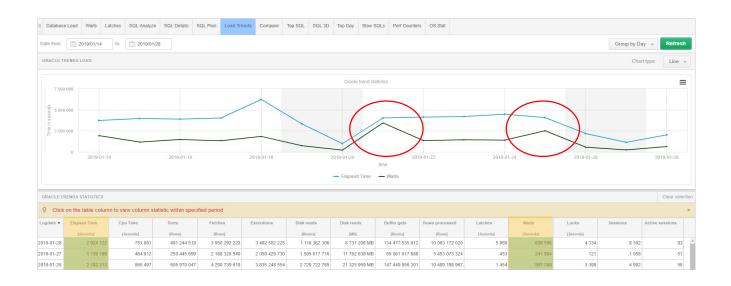
# Identification of the problem



Checking the problem of a high Waits level in the database starts in the Load Trends tab.

In order to analyse it, choose the performance statistics of **Elapsed Time** and **Waits**.

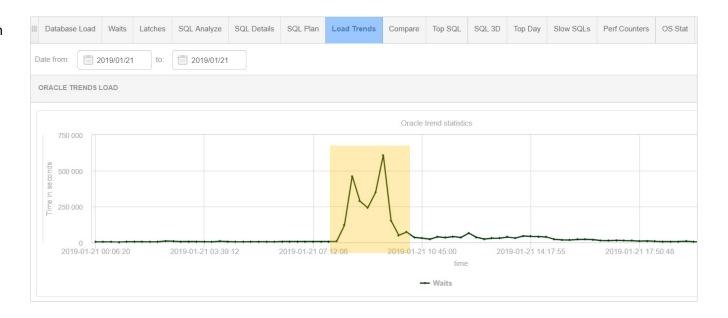
Search for a period with a high level of **Waits**.



# Identification of the problem



Verify in detail the period in which a high wait level occurred (samples every 15 minutes) (2019.01.21 7:57 - 9:28)



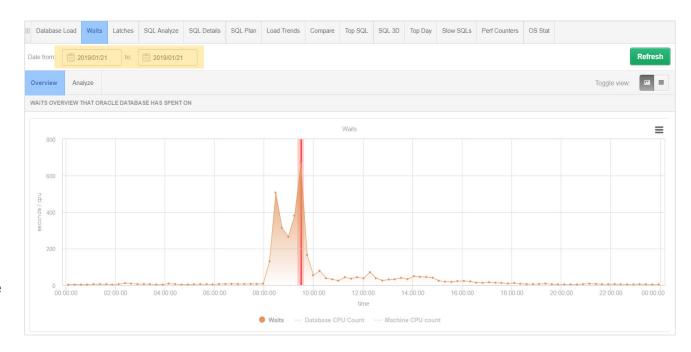
# Waits



For further analysis, go to the **Waits** tab.

Choose the **period** (2019.01.21) for which the problem was diagnosed.

By indicating a point on the graph with a high wait level, we get information about the type of wait in a given snap.



# Waits



The table on the left shows the level of waits for the **entire period** visible on the chart.

The table on the right shows the wait level for the **indicated point** on the chart.

In the example in question, the main problem is the Wait of the following type: TCP Socket (KGAS)



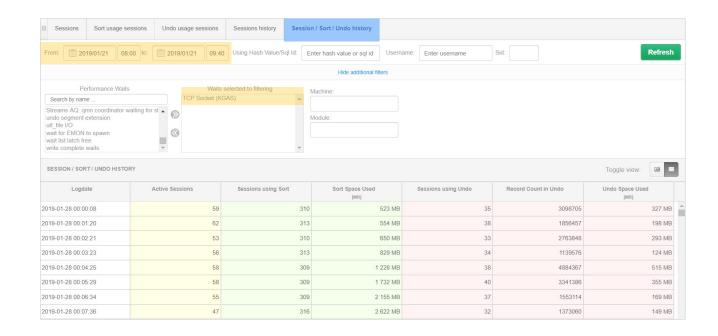
#### Sessions history



For further analysis, go to the session history screen: Sessions / Sort / Undo history.

Choose the period in which a high level of TCP Socket (KGAS) waits occurred.

Limit the search for sessions for which the requested wait occurred.



# Sessions history



As a result of the search, we receive a **list of sessions** in which the waiting occurred.

Using the [+] Add to query hash value list button, add queries to the clipboard for further analysis.

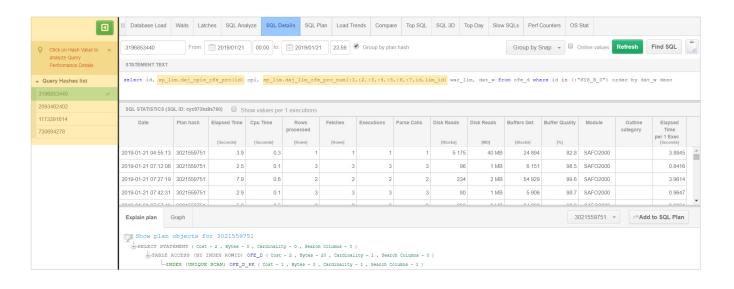
Sessions Son	Undo											
Logdate	Sid	Serial#	Hash Value ▼	User	Active Time	Schema	OS User	Machine	Program	Module	Wait	Blocking session
2019-01-21 09:38:20	14507	1137	1173391614	ENTER	[Seconds]	ENTER	oracle	u3gaja	oracle@u3gaja (	Safo->OeBS	TCP Socket (KG/ 0	
2019-01-21 09:38:20	36620	589	1173391614	ENTER	10	ENTER	oracle	u3gaja	oracle@u3gaja (	Safo->OeBS	TCP Socket (KG/ 0	
2019-01-21 09:38:20	41530	7315	1173391614	ENTER	2	ENTER	oracle	u3gaja	oracle@u3gaja (	Safo->OeBS	TCP Socket (KG/ 0	
2019-01-21 09:38:20	43917	1883	1173391614	ENTER	11	ENTER	oracle	u3gaja	oracle@u3gaja (	. Safo->OeBS	TCP Socket (KG/ 0	
2019-01-21 09:38:20	44703	3175	1173391614	ENTER	4	ENTER	oracle	u3gaja	oracle@u3gaja (	. Safo->OeBS	TCP Socket (KG/ 0	
2019-01-21 09:39:28	26223	2331	1173391614	ENTER	1	ENTER	oracle	u3gaja	oracle@u3gaja (	Safo->OeBS	TCP Socket (KG/ 0	
2019-01-21 09:32:25	27140	2217	1002464200	Query: 1173391614	6	ENTER	oracle	u3gaja	w3wp.exe	w3wp.exe	TCP Socket (KG/ 0	
2019-01-21 08:30:40	1405	857	962532483		7	ENTER	oracle	u3gaja		SAF02000	TCP Socket (KG/ 0	
2019-01-21 08:36:11	1405	857	962532483		value list <sup>7</sup>	ENTER	oracle	u3gaja		SAF02000	TCP Socket (KG/ 0	
2019-01-21 09:01:17	1405	857	962532483	ENTER	66	ENTER	oracle	u3gaja		SAF02000	TCP Socket (KG/ 0	
2019-01-21 09:02:24	1405	857	962532483	ENTER	144	ENTER	oracle	u3gaja		SAF02000	TCP Socket (KG/ 0	
2019-01-21 09:22:07	41622	323	962532483	ENTER	66	ENTER	oracle	u3gaja		SAF02000	TCP Socket (KG/ 0	
2019-01-21 09:33:48	27415	835	962532483	ENTER	6	ENTER	oracle	u3gaja		SAF02000	TCP Socket (KG/ 0	
2019-01-21 08:23:44	28610	633	730694278	ENTER	6	ENTER	oracle	u3gaja	v3wp.exe	w3wp.exe	TCP Socket (KG/ 0	

# SQL Details



Using the clipboard, proceed to the analysis of queries on the SQL Details screen.

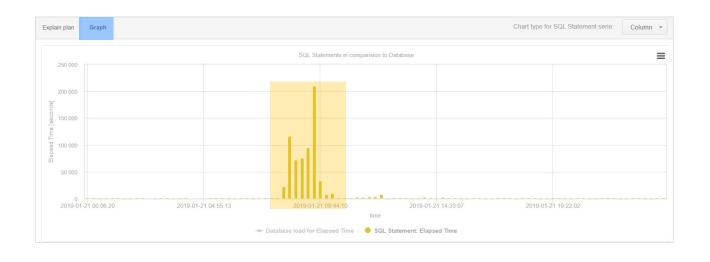
In the example in question, each query contained a call of a function performed in another database, which caused a high waits level.



# SQL Details - Graph



During the occurrence of the problem, the duration of queries for a given snap increased from an average of 8 seconds to over 200,000 seconds.



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