5-min video demo https://youtu.be/0Bs1G2f8RGU

DBmarlin demo for IBM Instana

Walkthrough linking to https://play.dbmarlin.com/

Walkthrough

Demo Steps

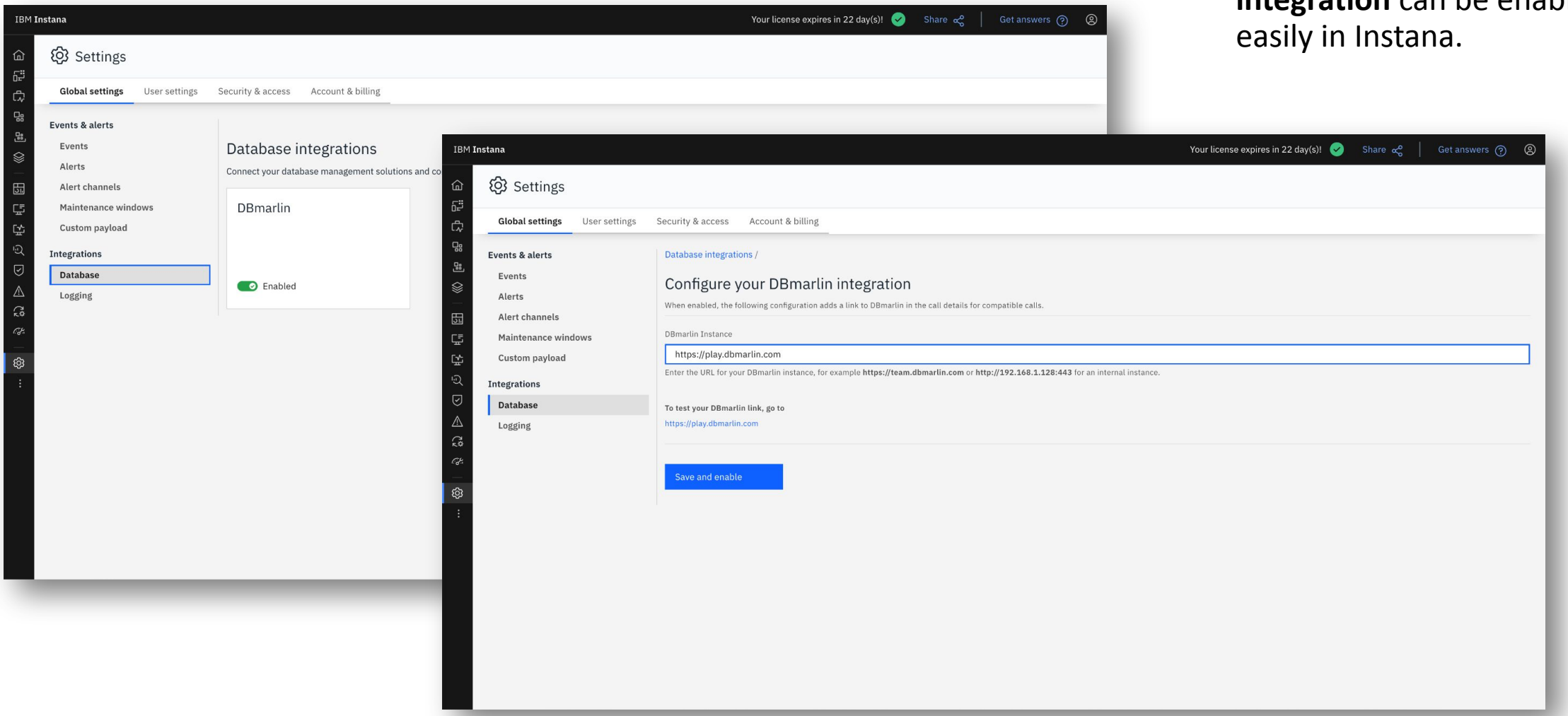
Login to IBM Instana

Switch to either of these environments which has the **BikeStore** demo application:

1. https://demo-partner.instana.io/
2. https://ibmdemo-instanaibm.instana.io/

Settings -> Integration

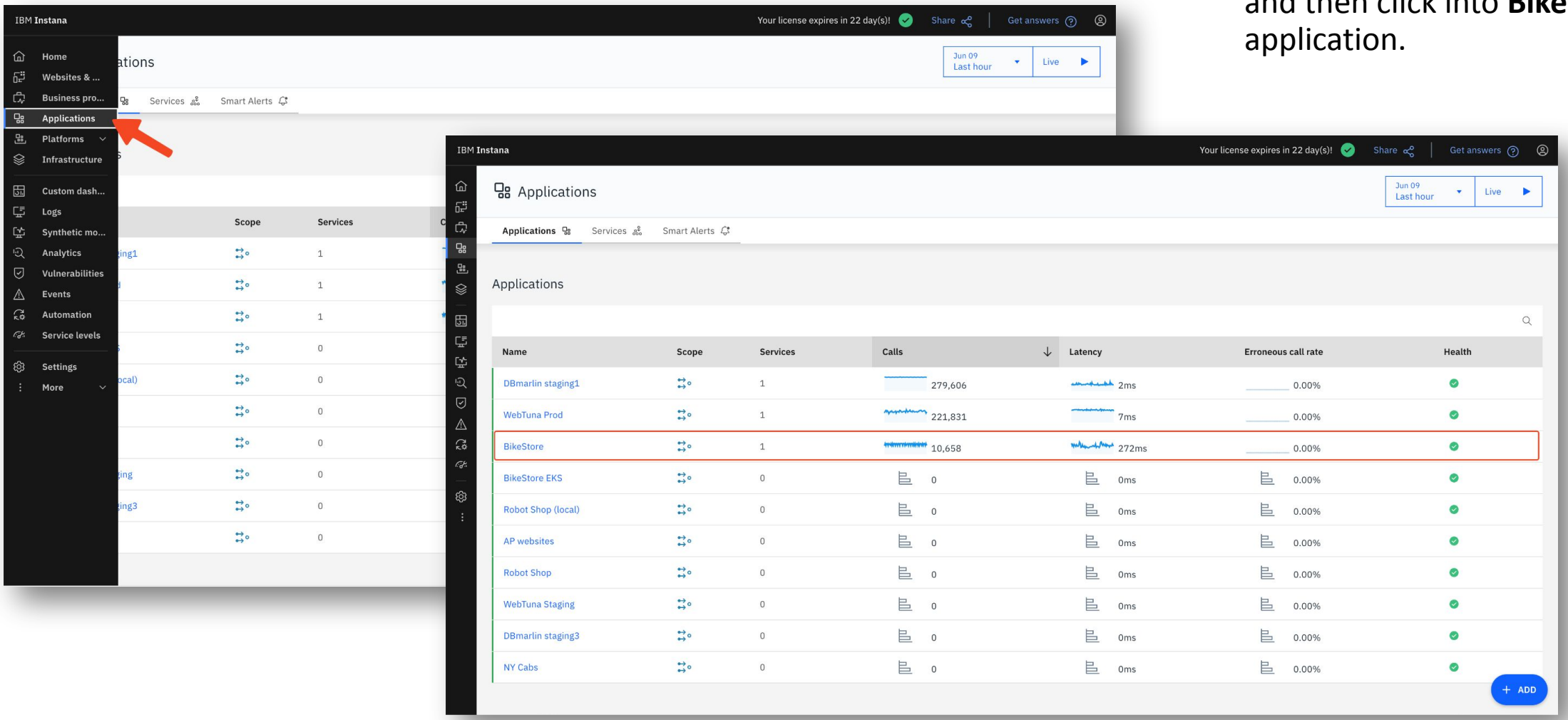
1. Show how DBmarlin **integration** can be enabled easily in Instana.



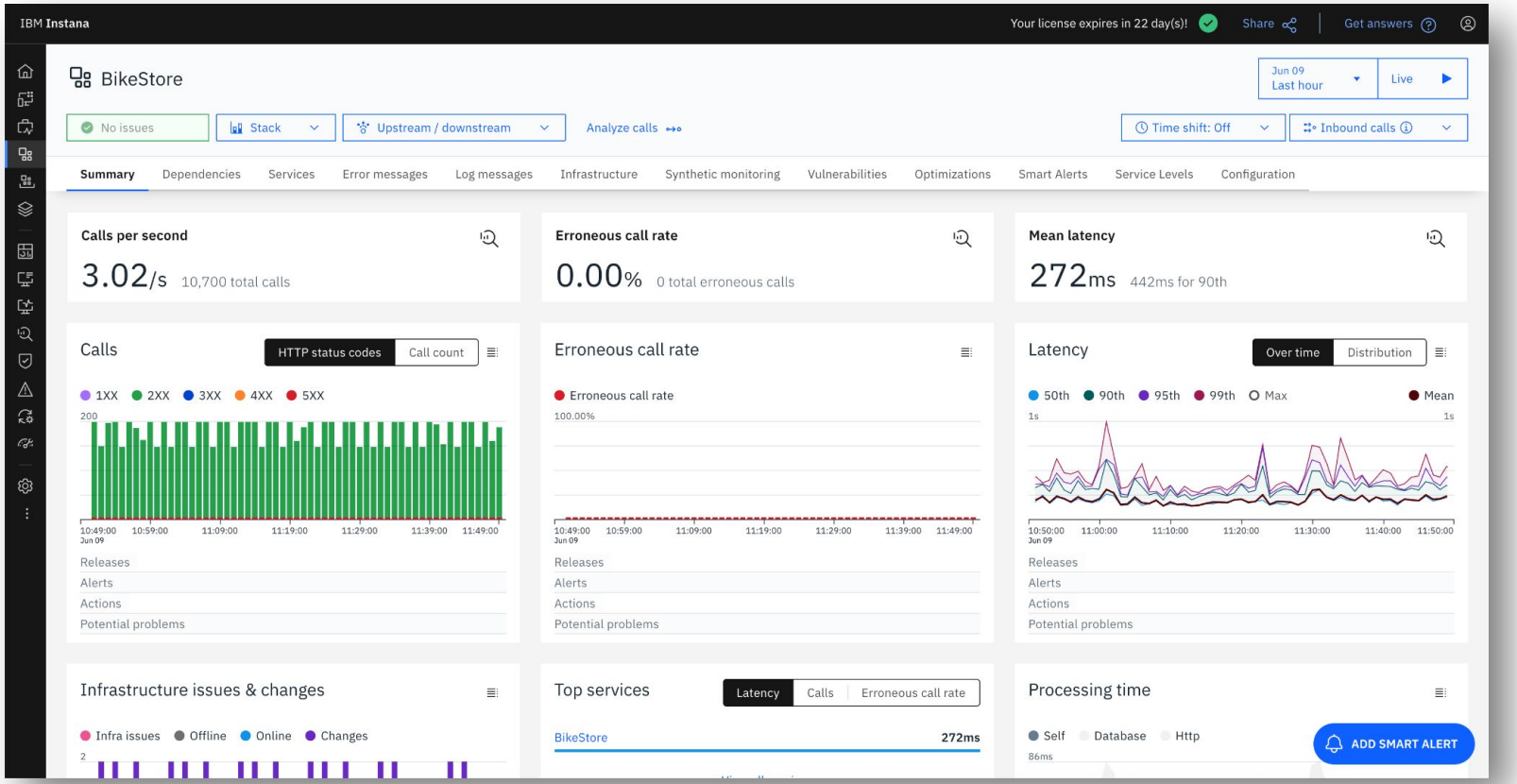
Note that if you don't have the right level of permissions in Instana you might not be able to show this screen so explain that it just requires the URL for the DBmarlin and move to next step.

Applications -> BikeStore

1. Click into the **Applications** and then click into **BikeStore** application.

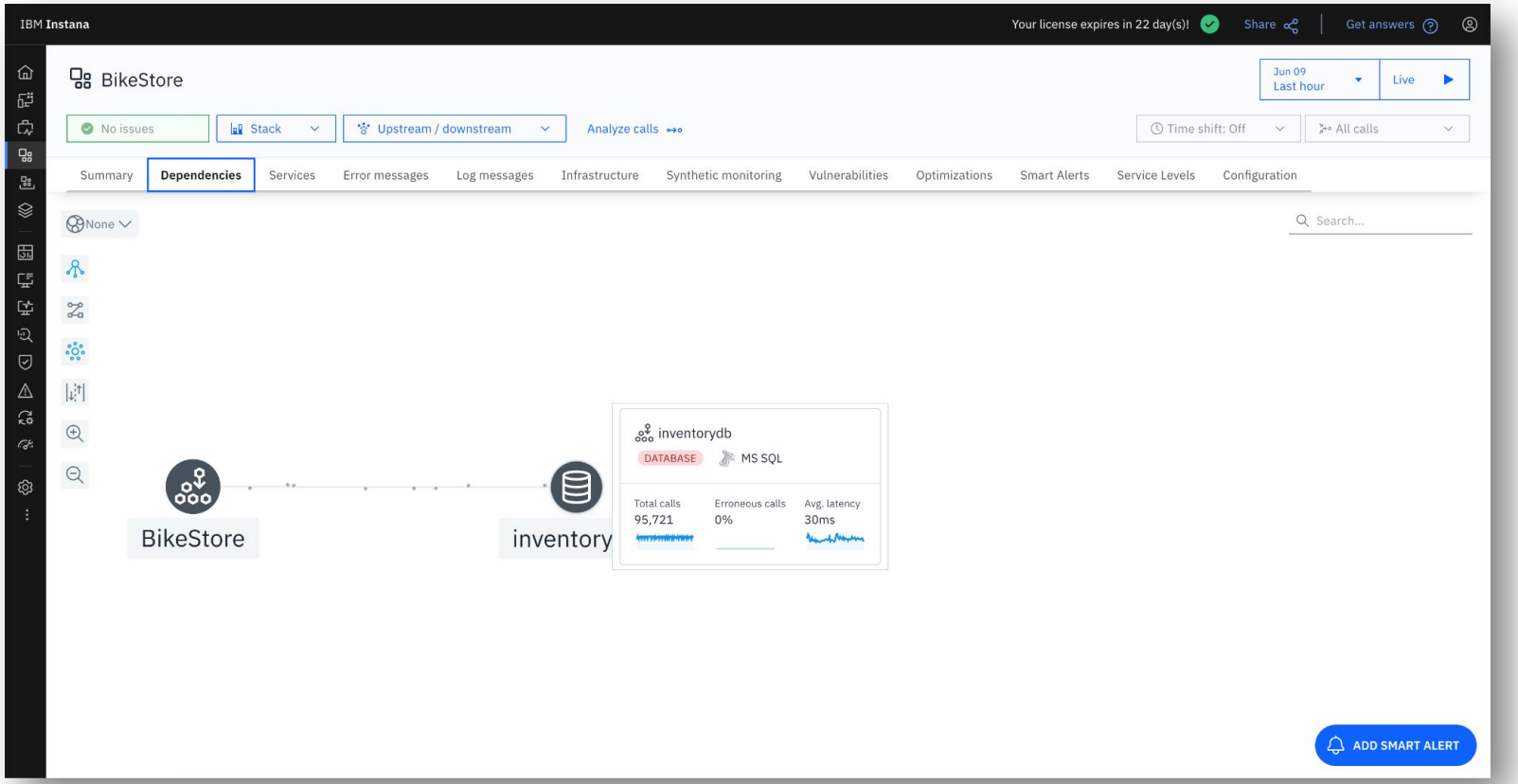


BikeStore application



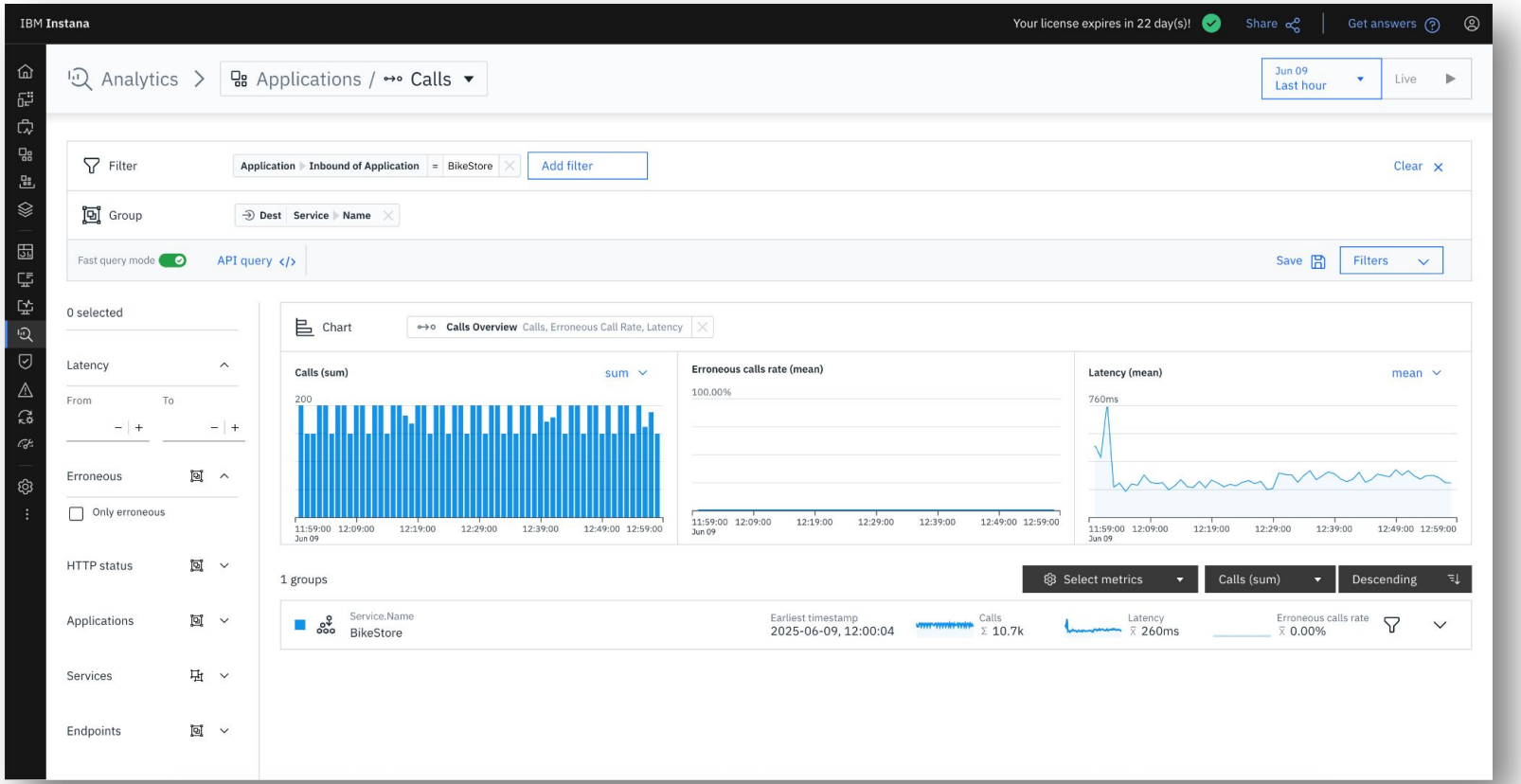
1. Explain that this app has around **3 calls per second** and the latency chart shows the average looks ok but the **99th percentile** show transactions taking **over 1 second**.
2. Next click **Dependencies** tab

Dependencies tab



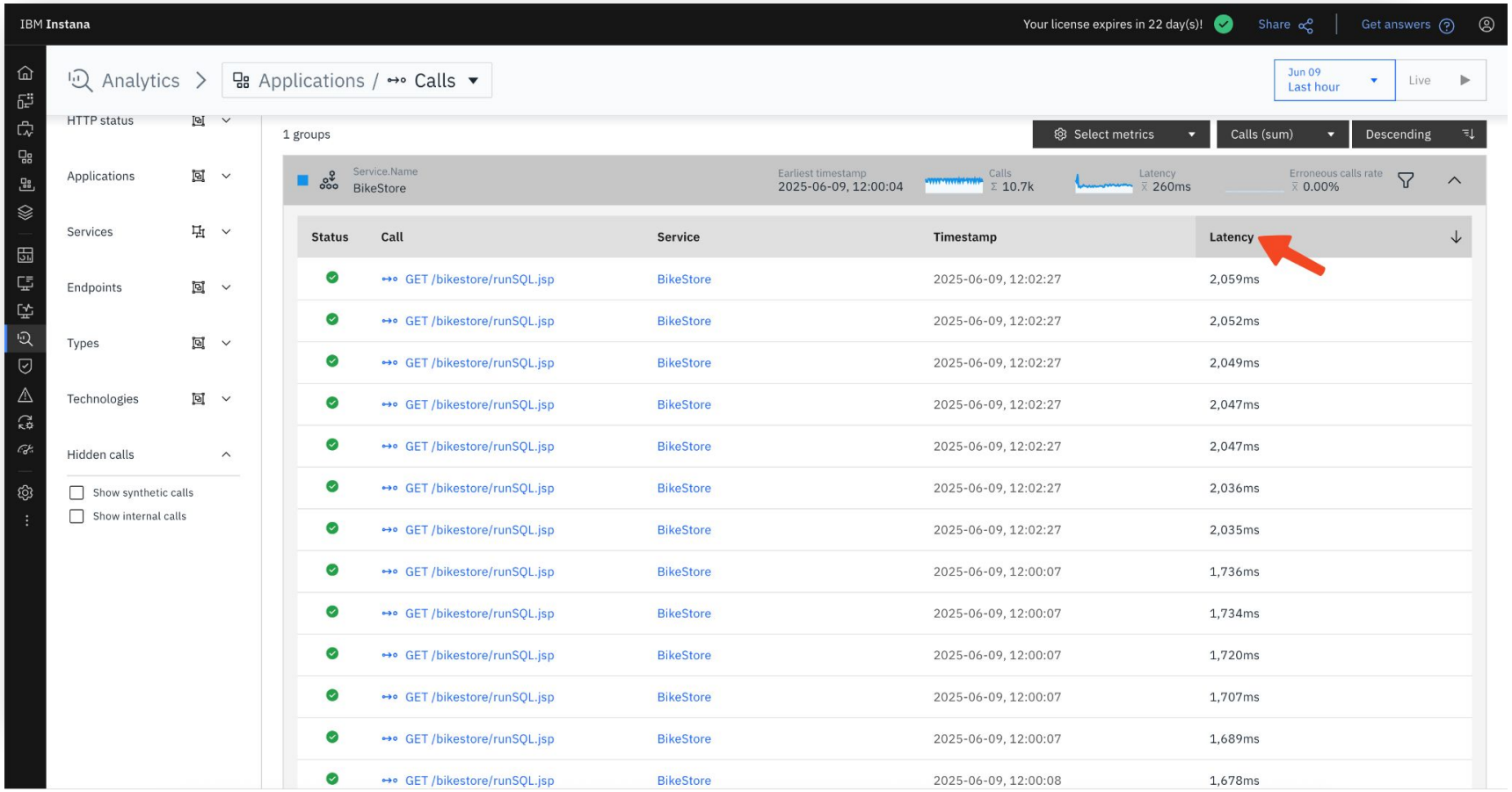
1. Navigate to **Dependencies tab**
2. Mouseover the app tier and database tiers to show more details.
3. Click on **Analyze calls** at the top of the screen

Analytics



1. Expand the group for Service.name=BikeStore to see the individual traces.

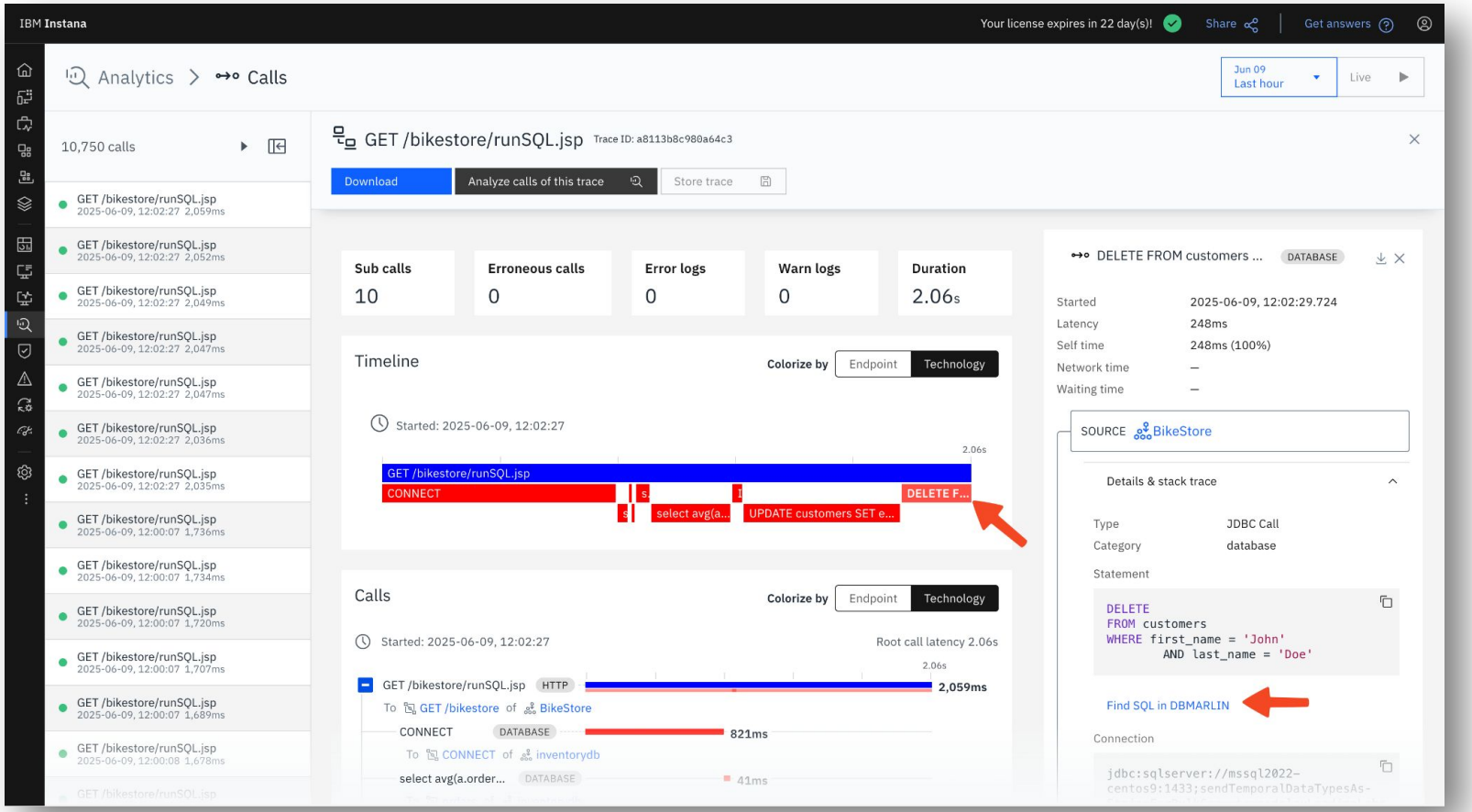
Analytics



Sort the traces by **Latency** descending and you should find some slow ones.

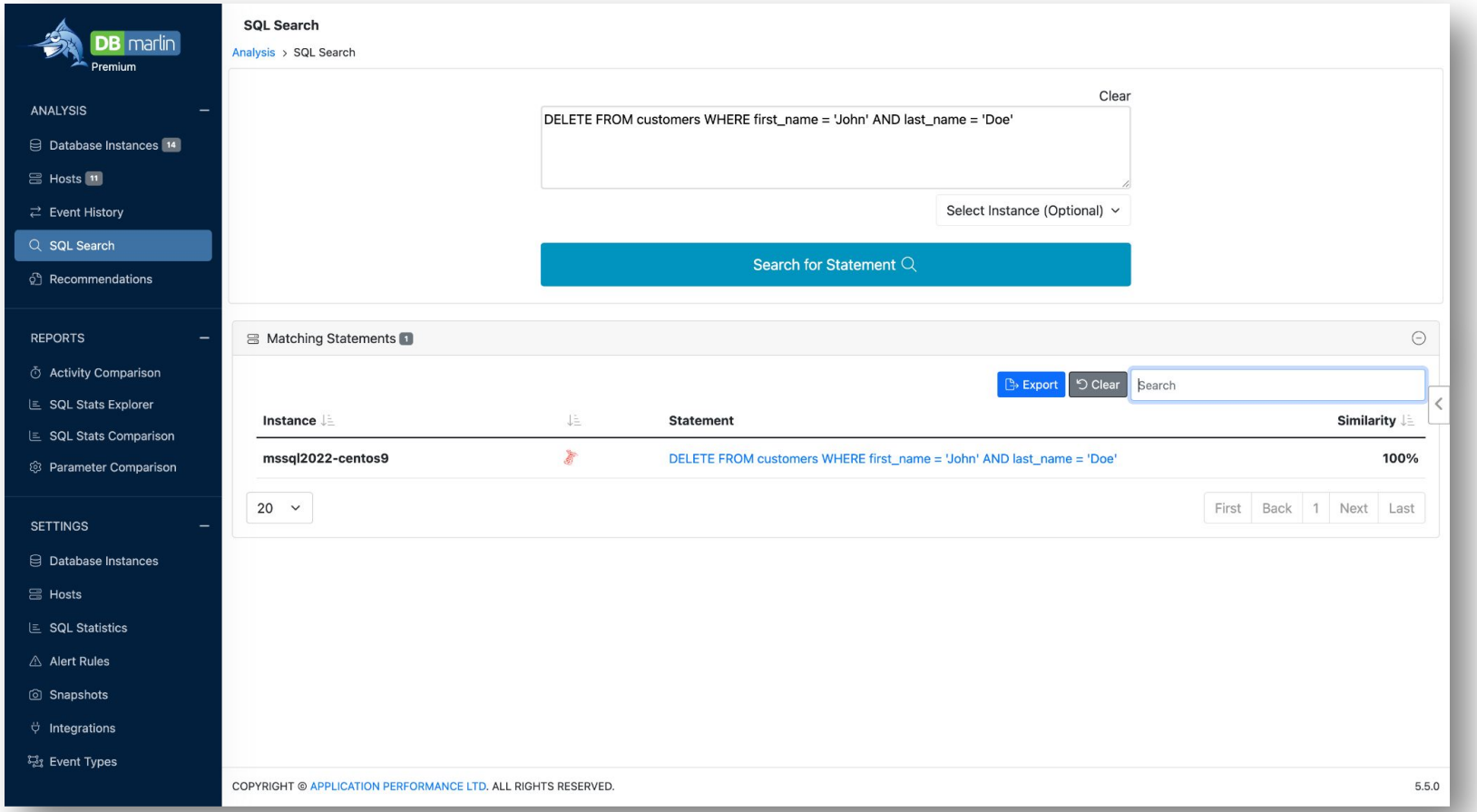
Then click into the top one.

Trace view



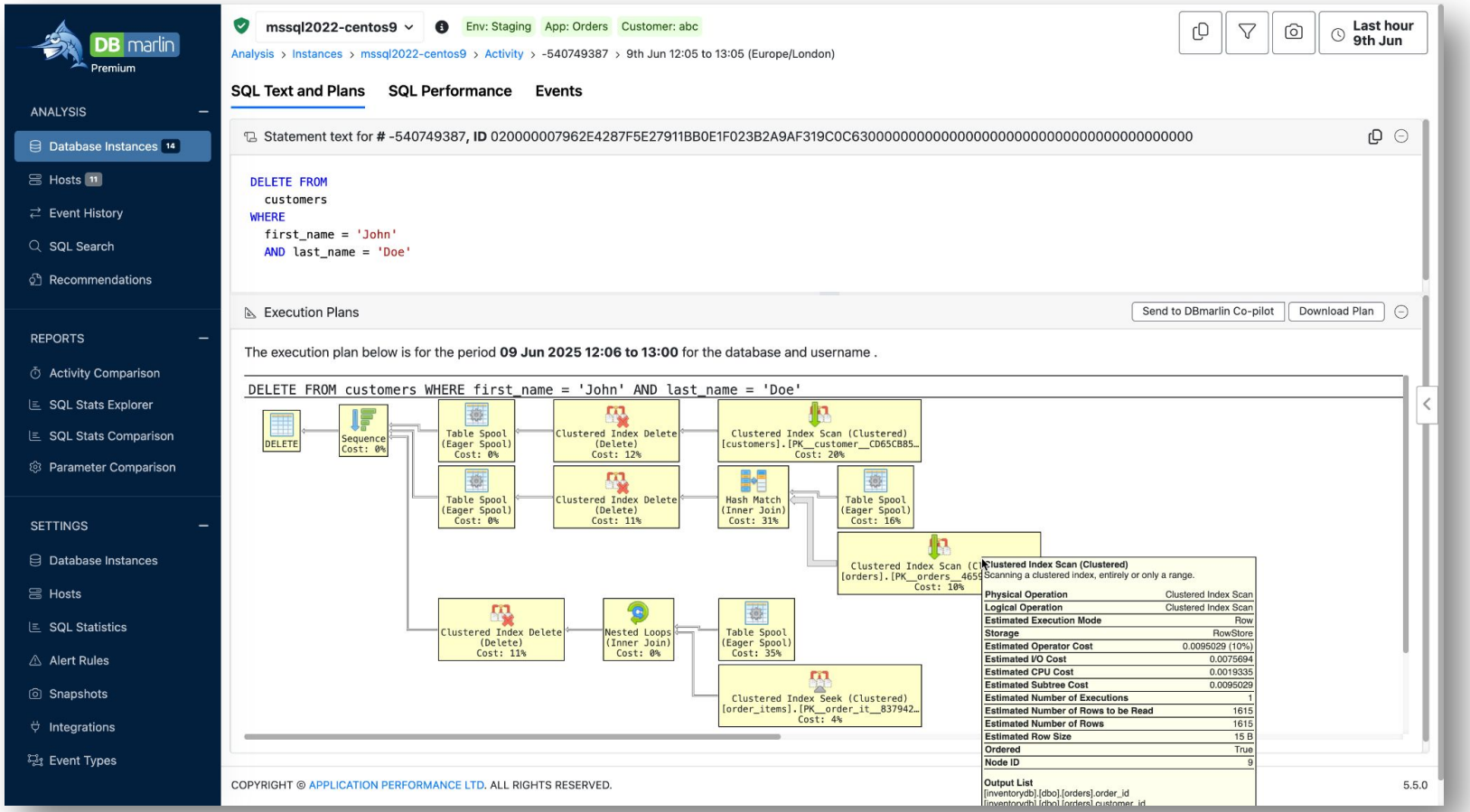
1. The trace has a very long response time which is dominated by the long red bar which is the database call.
2. Click on the red bar for the DELETE statement to see the SQL statement text on the right
3. You will see a **Find SQL in DBmarlin** button below it.
4. Click the button which will open play.dbmarlin.com in a new browser tab.

DBmarlin SQL Search results



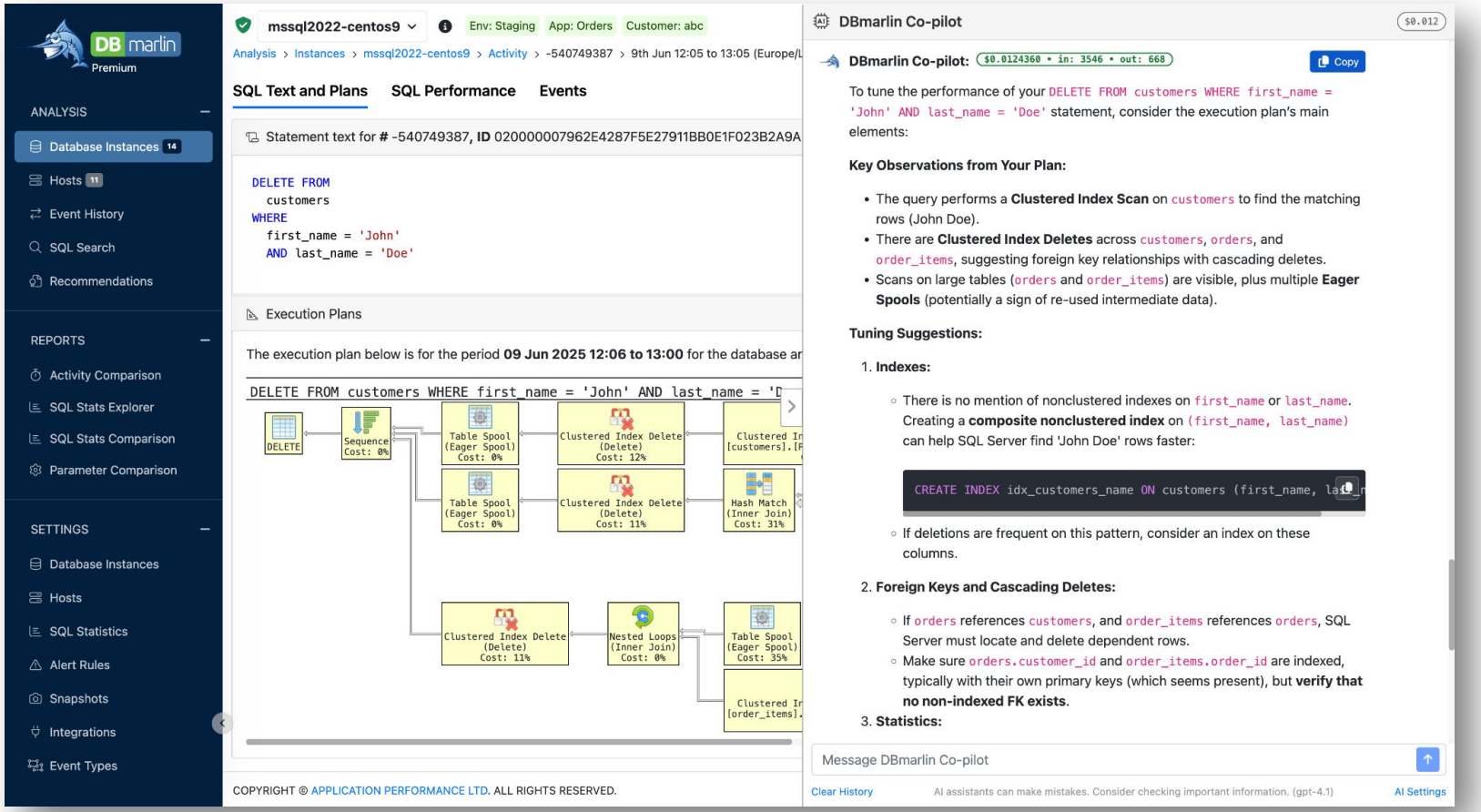
1. DBmarlin will open on the SQL Search screen with the results of the search.
2. Explain that the results ordered by Similarity score and it is doing a fuzzy match since the statement text could be slightly different between app and db due to formatting like white spaces, or quotation marks.
3. Click into it to see the details

DBmarlin Statement and Plans



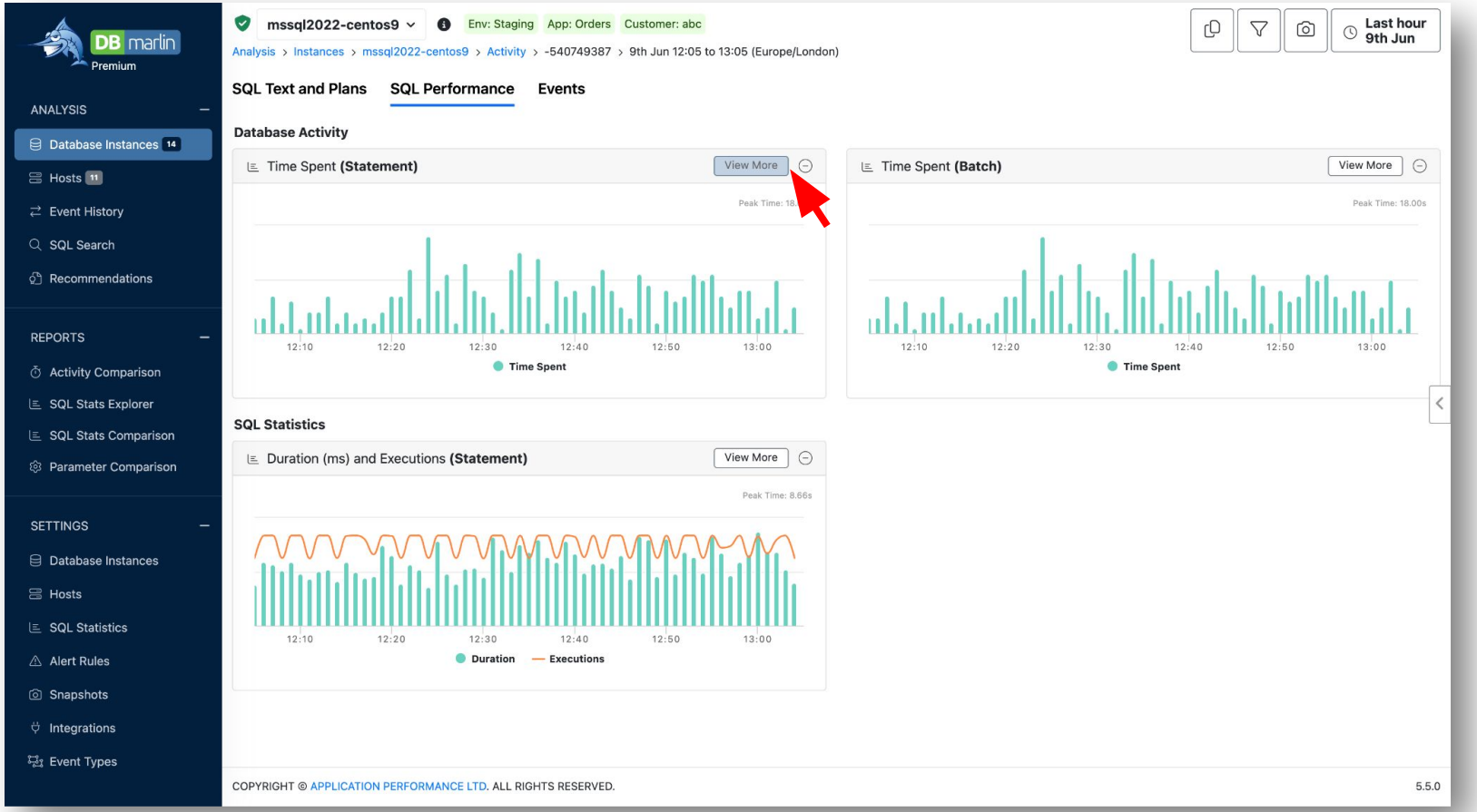
1. DBmarlin will show the Statement text and any **Execution Plans**.
2. Execution plans show the steps the database optimizer has chosen to execute to return the results. It can be very useful when tuning SQL.
3. Next click **Send to DBmarlin Co-pilot** to get suggestions on how to optimize the SQL.

DBmarlin Co-pilot for SQL Tuning Advice



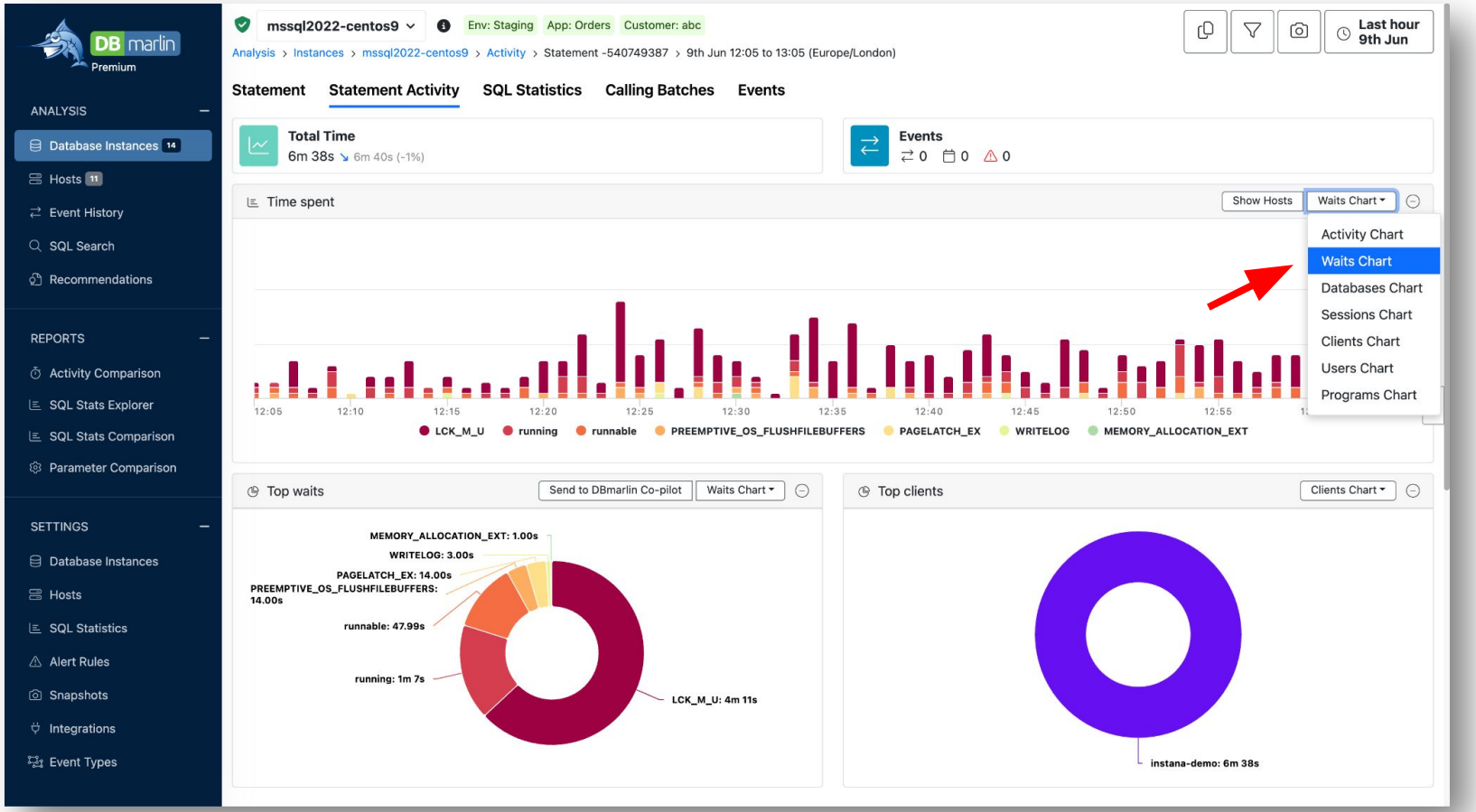
1. DBmarlin Co-pilot is an AI assistant which is available on any screen within DBmarlin.
2. In this case it has analyzed the SQL statement text and plan and made a recommendation to use an index.
3. Click to slide the Co-pilot panel away when you are done.

SQL Performance



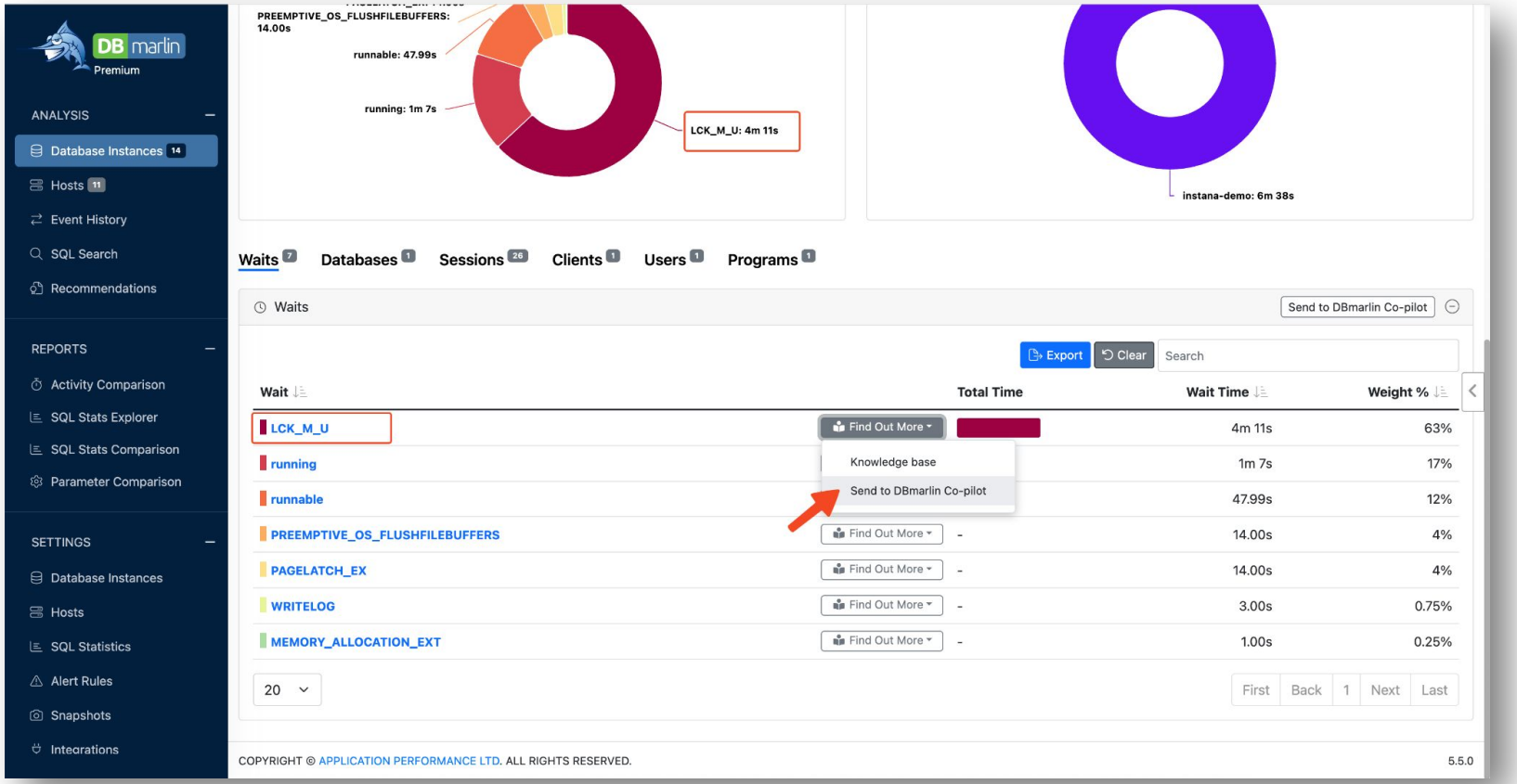
1. Click on the **SQL Performance tab** to see charts for SQL Activity and SQL Statistics.
2. In the top right corner of the Time Spent (Statement) chart click the **View more** button.

DBmarlin Statement Activity



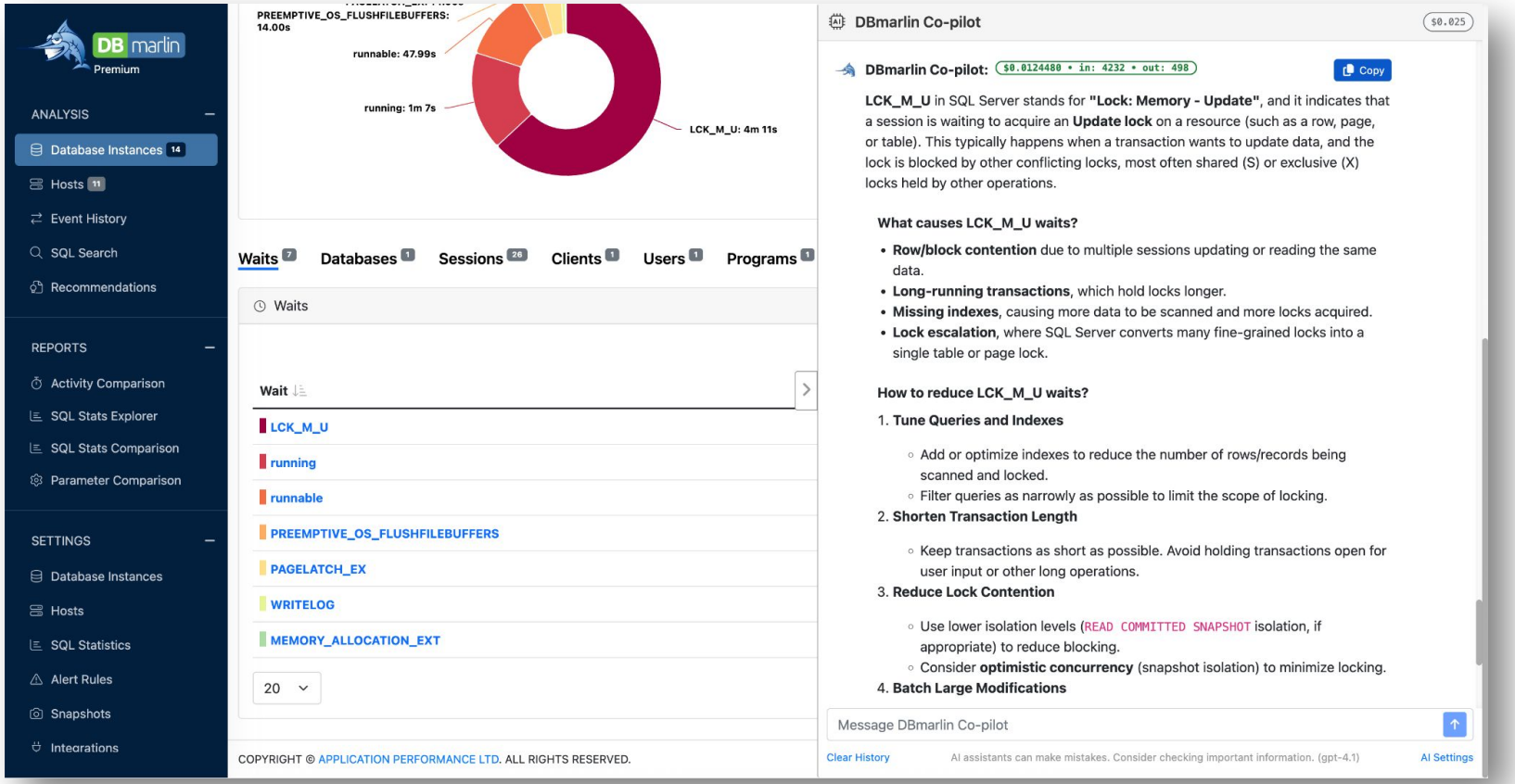
1. Statement Activity tab show the activity for the statement over time.
2. From the Dropdown select **Waits Chart** to see wait-events over time. You will see the DELETE statement spends more than half it's time waiting on a lock **LCK_M_U**
3. Scroll down to the table below

DBmarlin Statement Wait time



1. For the wait event **LCK_M_U** you can click to ask the **Knowledge base** or **Co-pilot** for more information.
2. Click co-pilot for an explanation of the wait and what can be done to reduce it.

DBmarlin Co-pilot for Wait Event Advice



1. Co-pilot can explain the LCK_M_U wait event and what can be done to reduce it.

Further information

- 5-min video demo https://youtu.be/0Bs1G2f8RGU
- 1 FREE license for IBM Instana customers https://www.dbmarlin.com/instana-offer