



User Conference on  
Advanced Automated Testing

## Seeing Beyond the Tools

Unleashing the power of observability

Anastasia Kutafina, QA in Dusseldorf, GER

**trivago**

11/15/2023



# Imagine..

~ 100 people



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# Imagine..

~ 100 people



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# Imagine..

1 user session



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# Imagine...

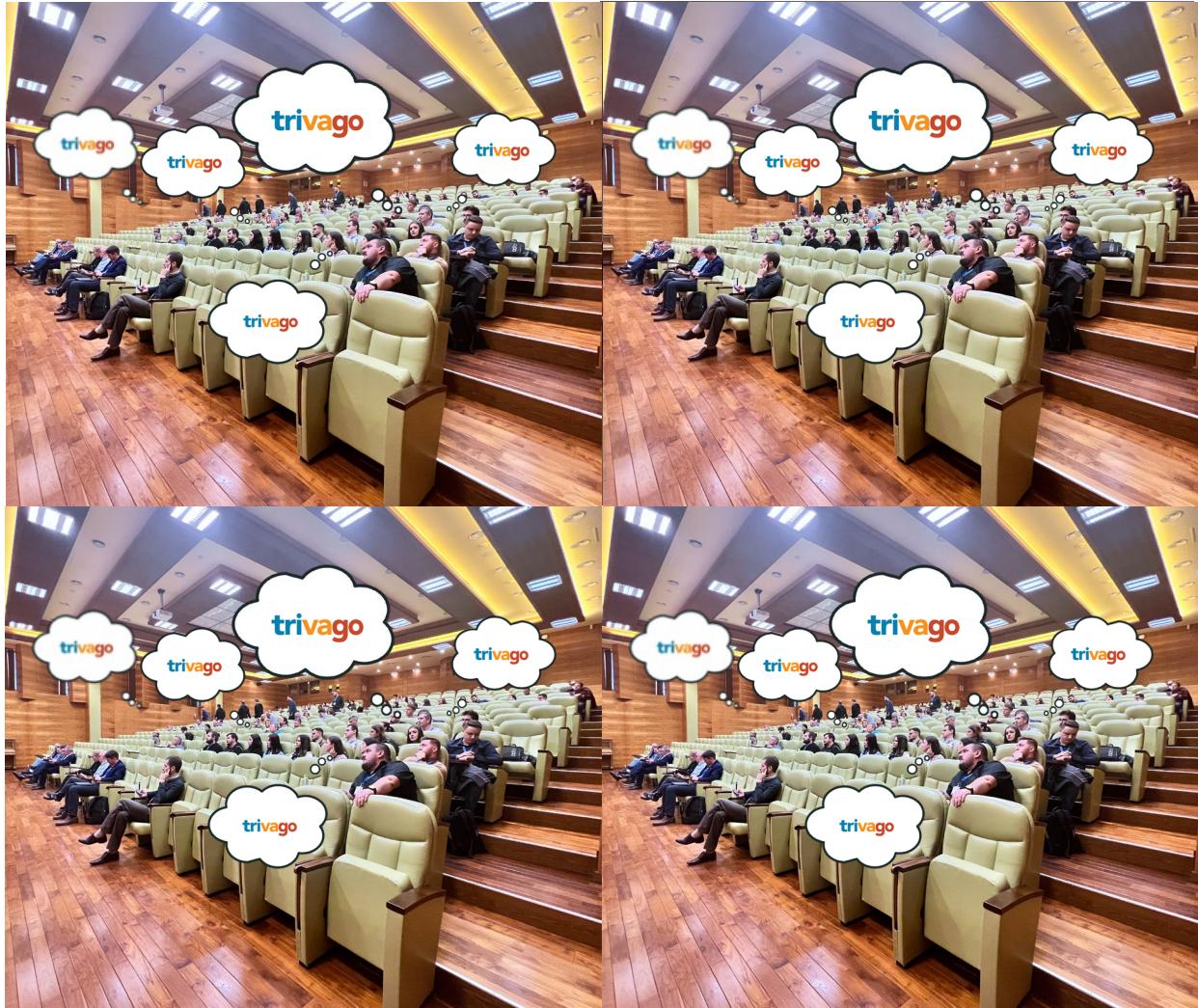
~ 100 people



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# Imagine..

~ 400 user sessions



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# Already harder but Imagine..

~ 2k user sessions



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# The photo to help you imagine..

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The Narendra Modi Stadium in Ahmedabad, India; image by populous.com

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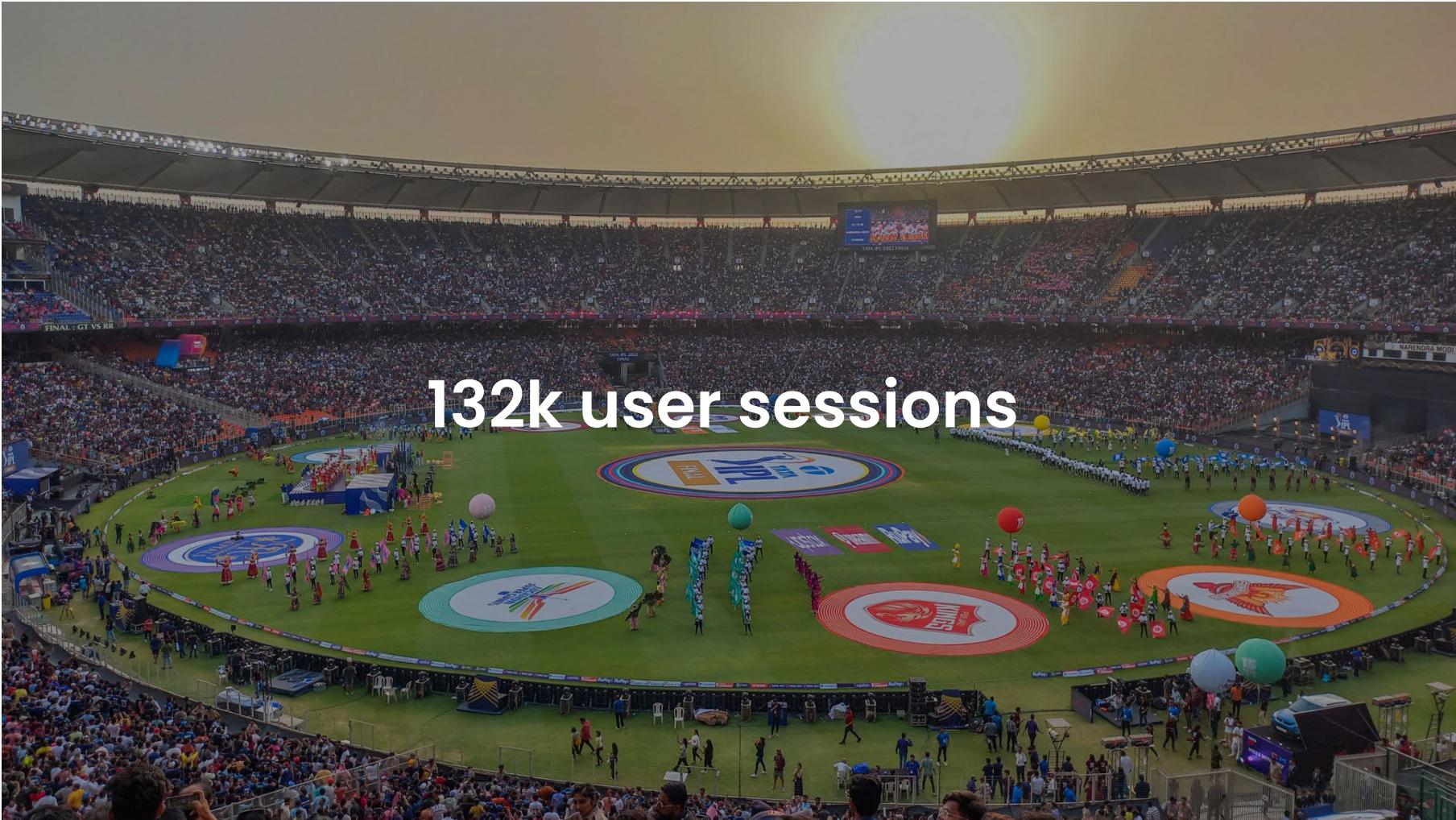


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# The photo to help you imagine..

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132k user sessions

The Narendra Modi Stadium in Ahmedabad, India; image by populous.com

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# Not imagination but reality is..

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up to  
4,000,000  
sessions per day

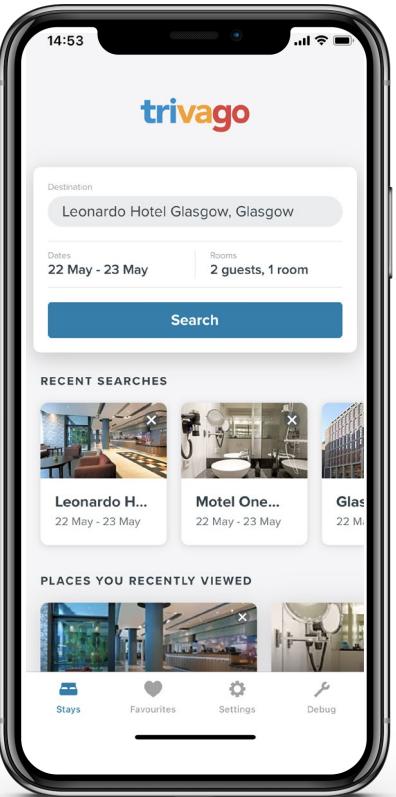
The Narendra Modi Stadium in Ahmedabad, India; image by populous.com

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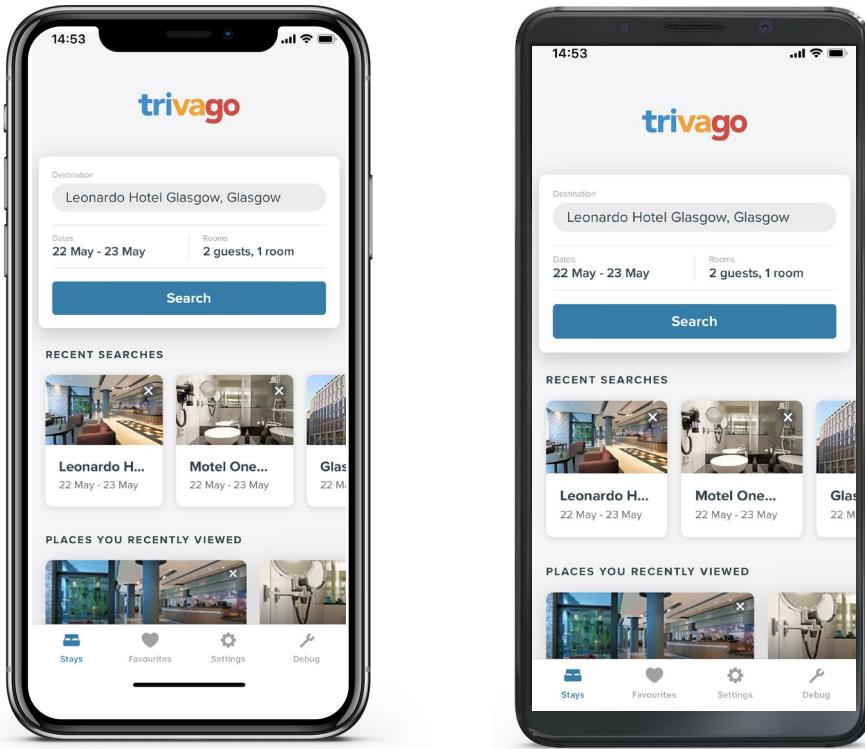


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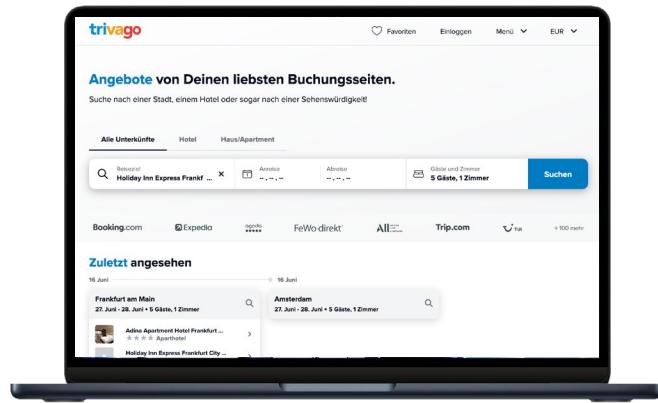
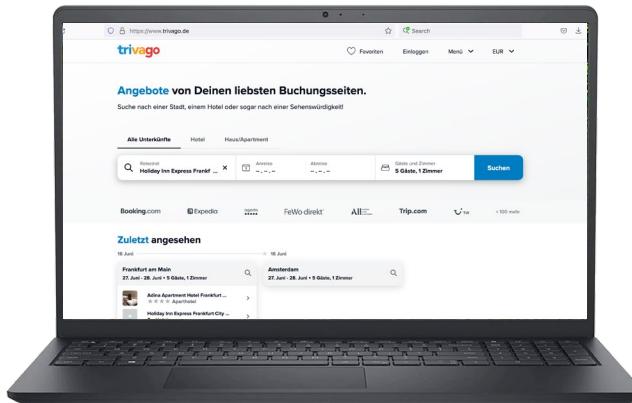
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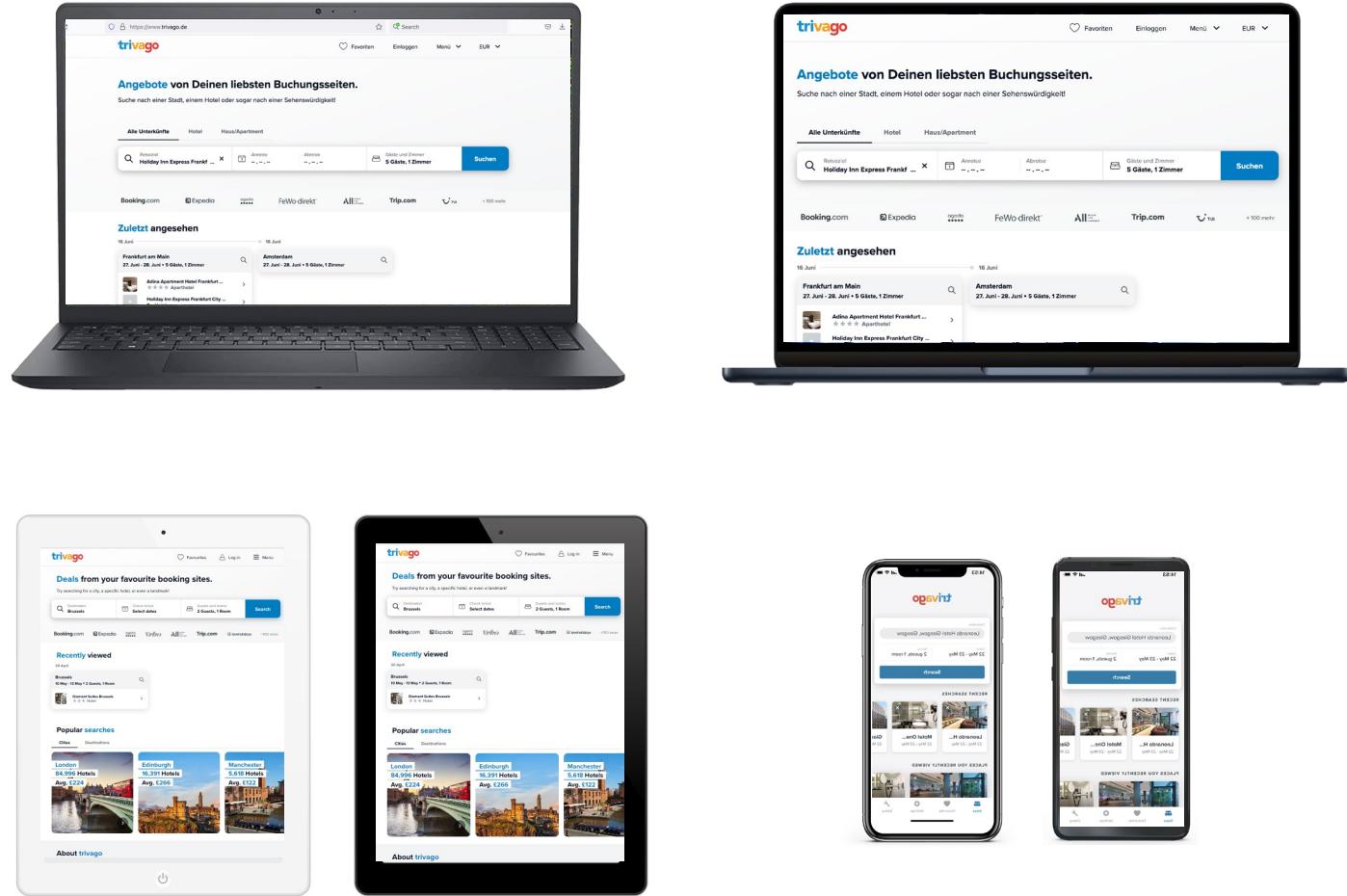


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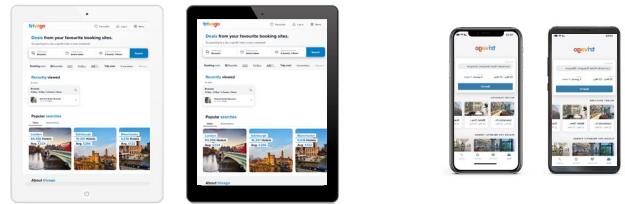
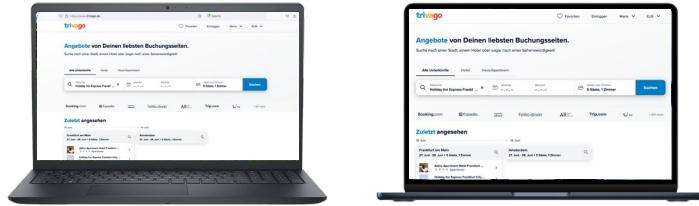


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# Reality is

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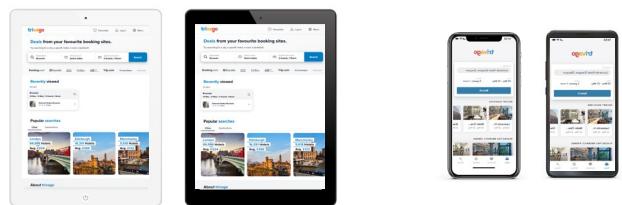
## WEB Apps



## Mobile Apps



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# How to swim in this sea?

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WEB Apps



X

Mobile Apps



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# How to swim through this sea?

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# Visualization and Exploration

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- Have Logs & Metrics

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# Visualization and Exploration

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- Have Logs & Metrics
- Have alerts

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# Visualization and Exploration

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- Have Logs & Metrics
- Have alerts
- Check they work ☺

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- Have RED Metrics
- Have alerts

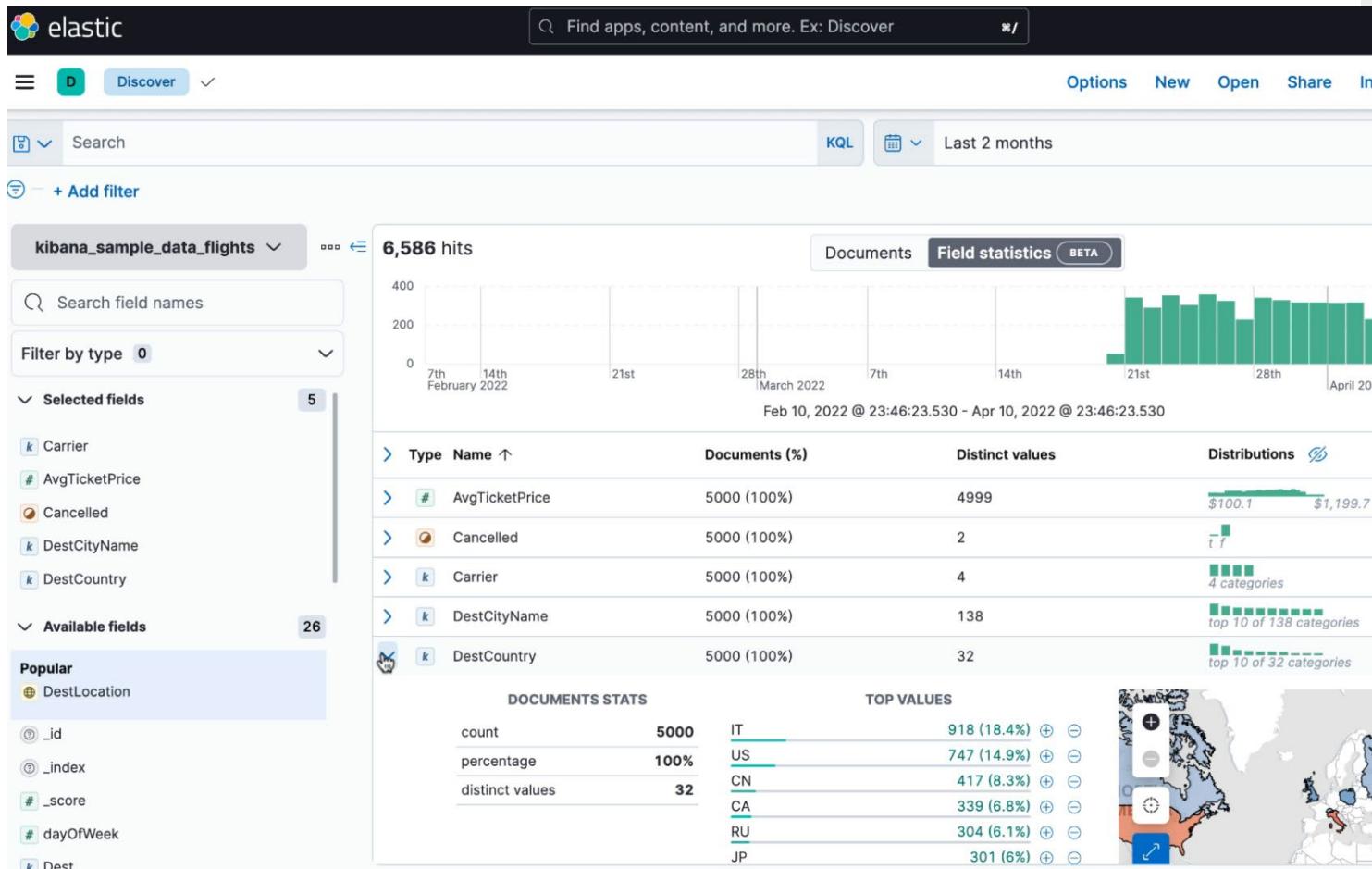


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# Kibana & Elasticsearch

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- Have Logs
- Have alerts



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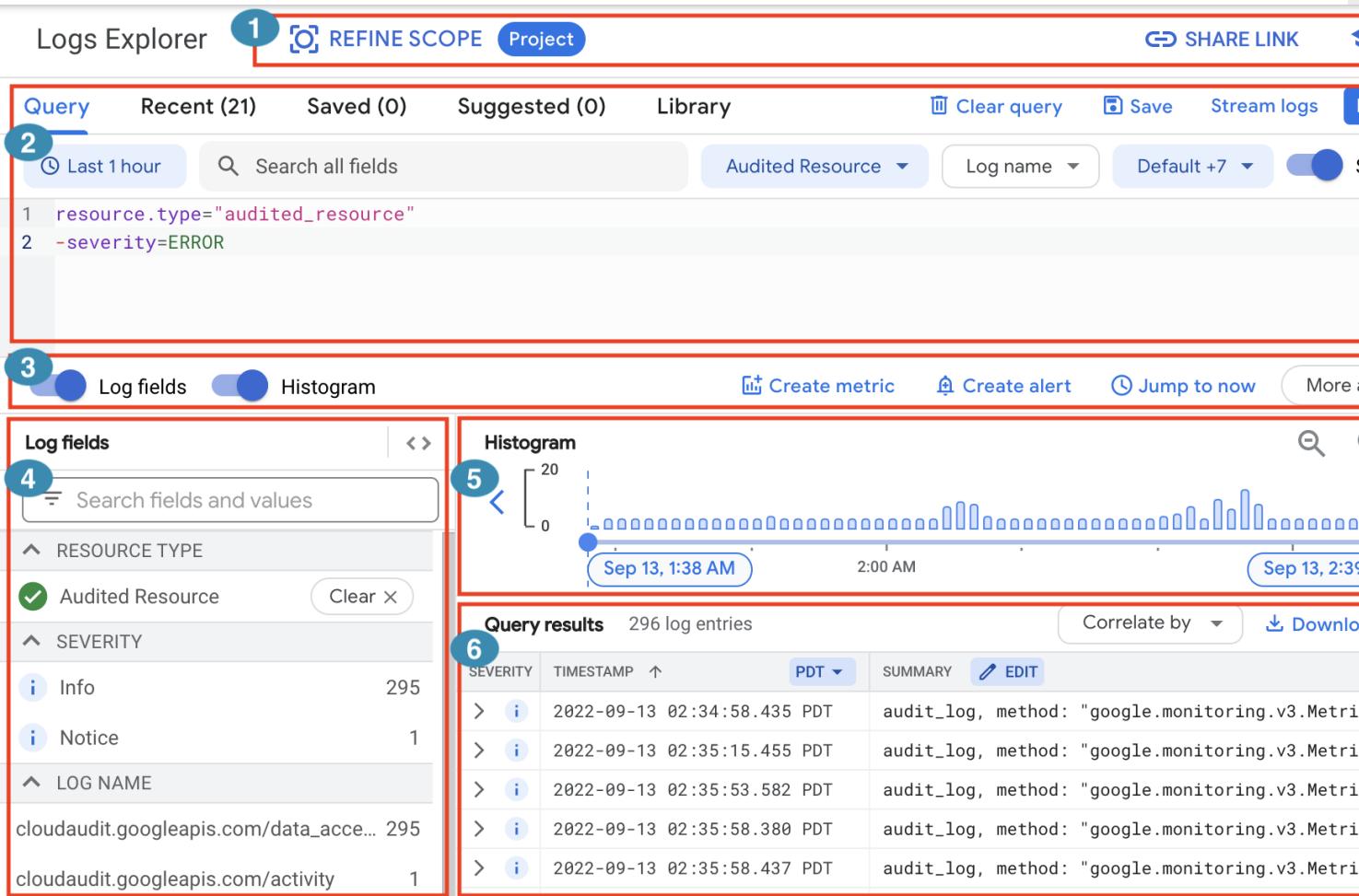
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# Google Cloud Logs Explorer

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- Have Logs
- Have alerts



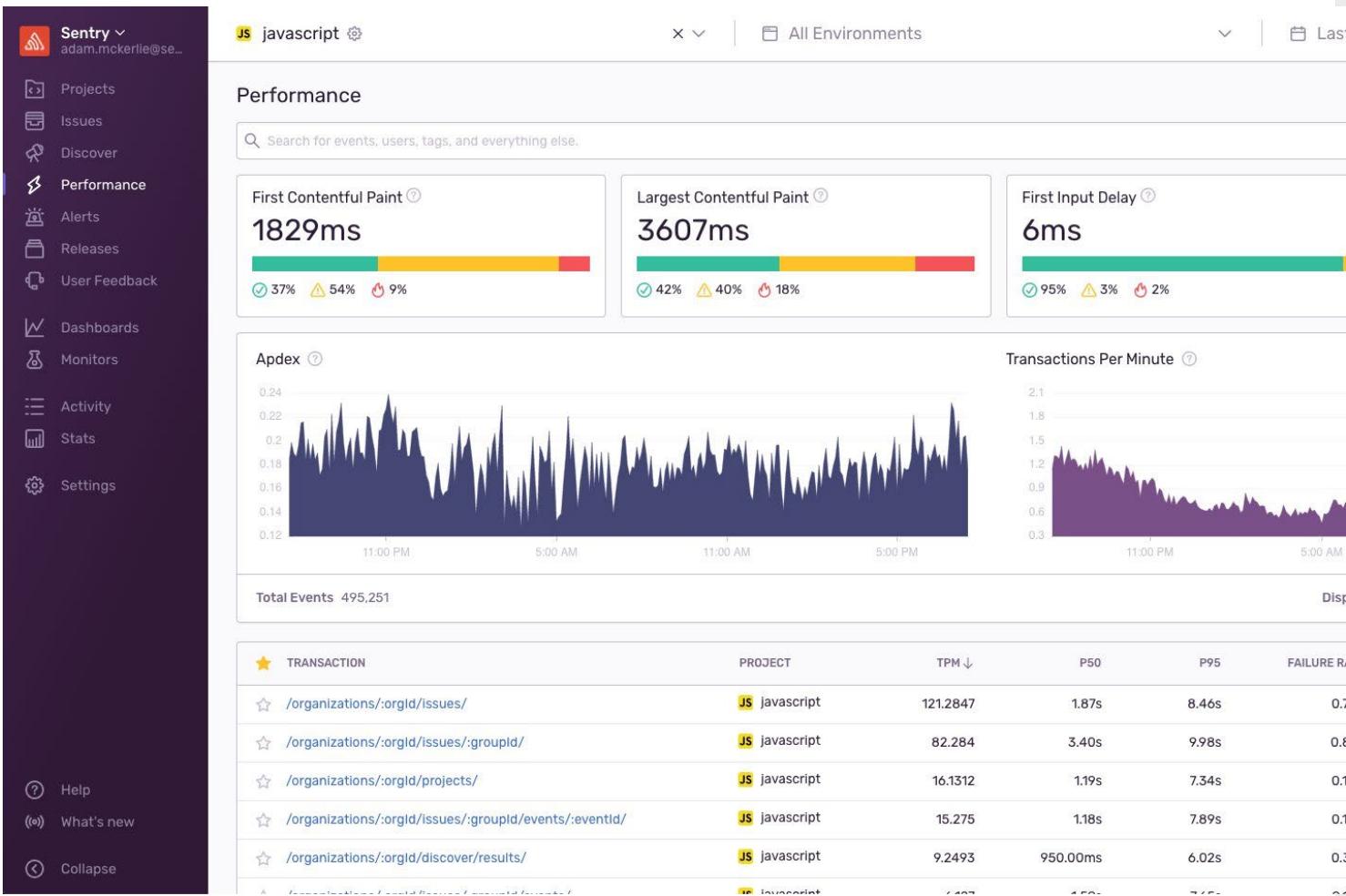
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- Add through Lazy Loading
- Have alerts



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# Synthetic Monitoring

- Have Logs & Metrics
- Have alerts

# Synthetic Monitoring

- Have Logs & Metrics
- Have alerts
- Check they work ☺

# Synthetic Monitoring

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- Have Logs & Metrics
- Have alerts
- Check they work 😊

QA HS QA Notifications APP 8:26 AM  
One or more trupi-live tests failed

Locale: UK  
Failed tests: 1  
Passed tests: 1

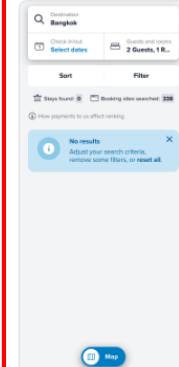
---

```
[ERROR] Tests run: 1, Failures: 1, Errors: 0, Skipped: 0, Time elapsed: 35.459 s <<<
FAILURE! - in Runner_SemUberScenario_scenario001_run001_IT[ERROR] SEM Landing
Page live UberScenario.SEM UberScenario Time elapsed: 34.883 s <<<
FAILURE!java.lang.AssertionError: No accommodations found in result listExpected: a value
greater than <0>  but: <0> was equal to <0>--[ERROR] Tests run: 1, Failures: 1, Errors: 0,
Skipped: 0, Time elapsed: 43.893 s <<< FAILURE! - in
Runner_UberScenario_scenario001_run001_IT[ERROR] UberScenario.UberScenario Time
elapsed: 43.297 s <<< FAILURE!java.lang.AssertionError: Expected: is <25>  but: was
<0>--[ERROR] Tests run: 1, Failures: 1, Errors: 0, Skipped: 0, Time elapsed: 66.199 s <<<
FAILURE! - in
Runner_SemUberScenario_scenario001_run001_IT_scenario001_run001_rerun_IT[ERROR]
SEM Landing Page live UberScenario.SEM UberScenario Time elapsed: 65.607 s <<<
FAILURE!java.lang.AssertionError: Expected: a value greater than <0>  but: <0> was equal
to <0>
```

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[Test report](#) [Job run details](#) [Test last URL](#) [Kibana trupi-live overview](#)

Failure screenshot (195 kB) ▾



A screenshot of a web-based search interface. At the top, there are input fields for 'Destination' (set to 'Bangkok'), 'Check in', 'Select dates', and 'Guests, 1 R..'. Below these are buttons for 'Sort' and 'Filter'. A message box in the center says 'No results' and suggests adjusting search criteria or removing filters. At the bottom right is a 'Map' button.

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## Ask me anything

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# QA