



Hey. I'm G/.

@guillaumedotid



**And this is where I live...**





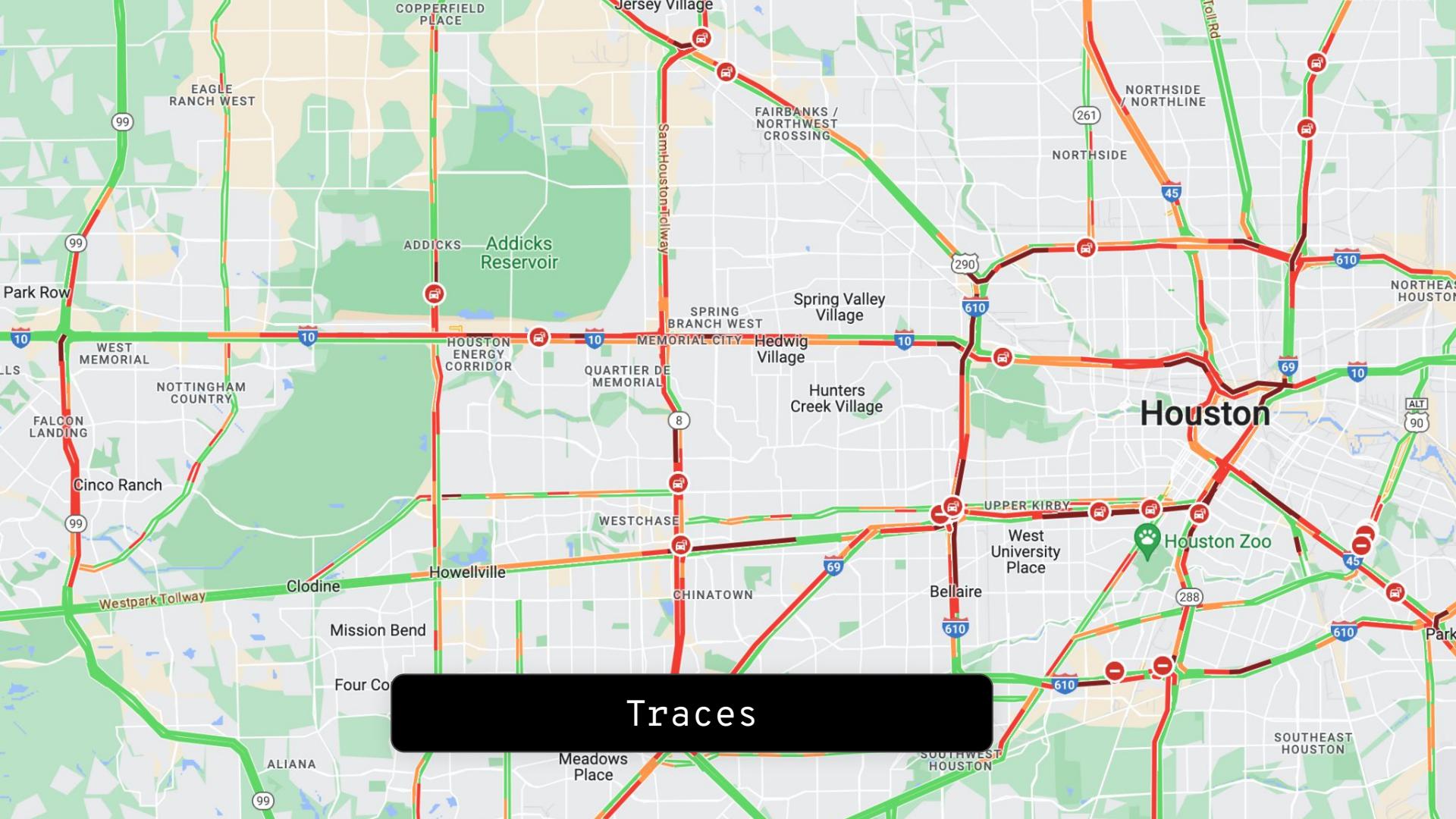
# My application

**Can't we just add more lanes?**  
(servers and processes)

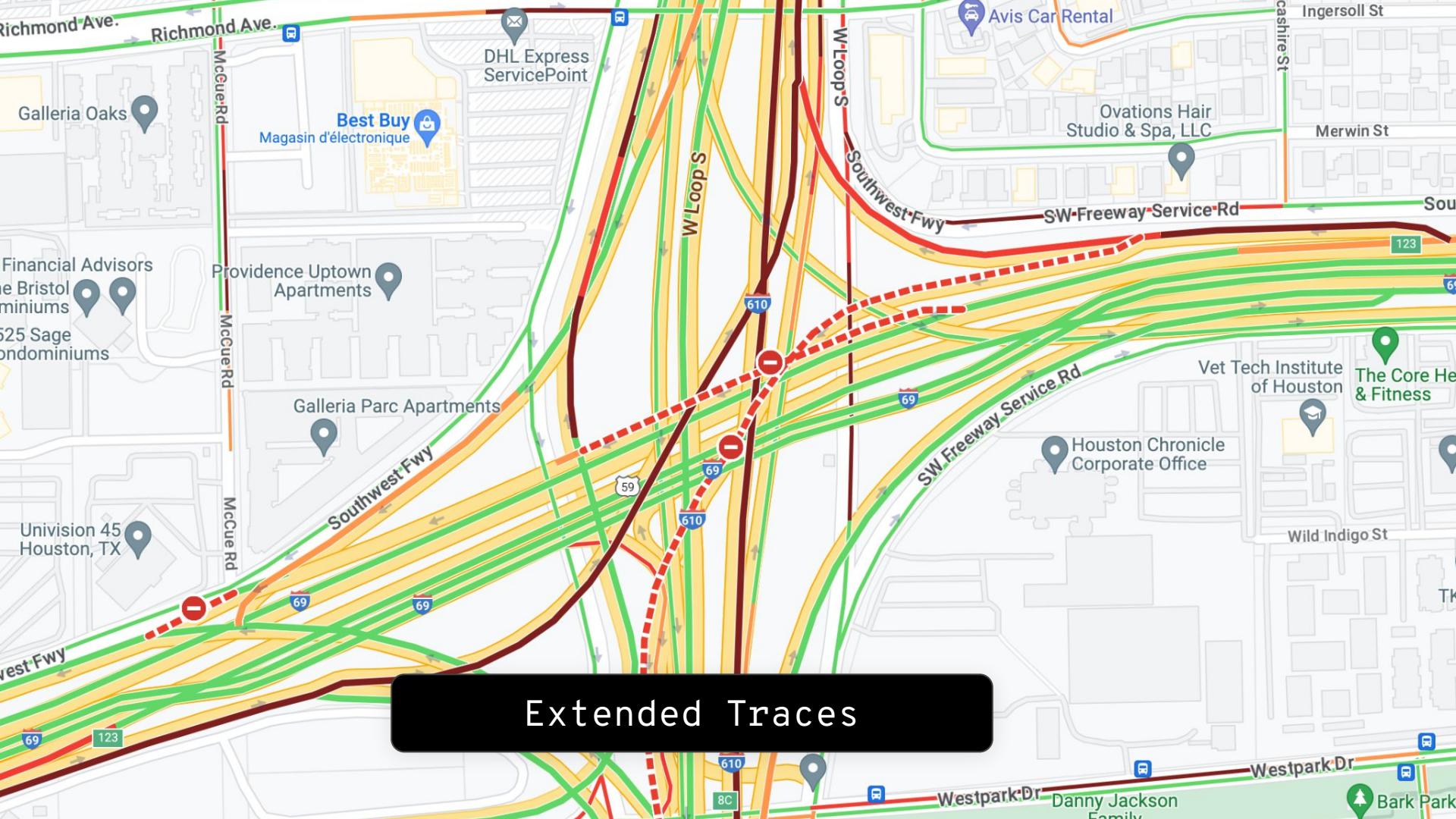
Short answer: **You should not.**

Can we **detect** and **fix issues** in production quickly?

Can we **prevent** new work that contains  
**performance regressions** from promotion?



Traces

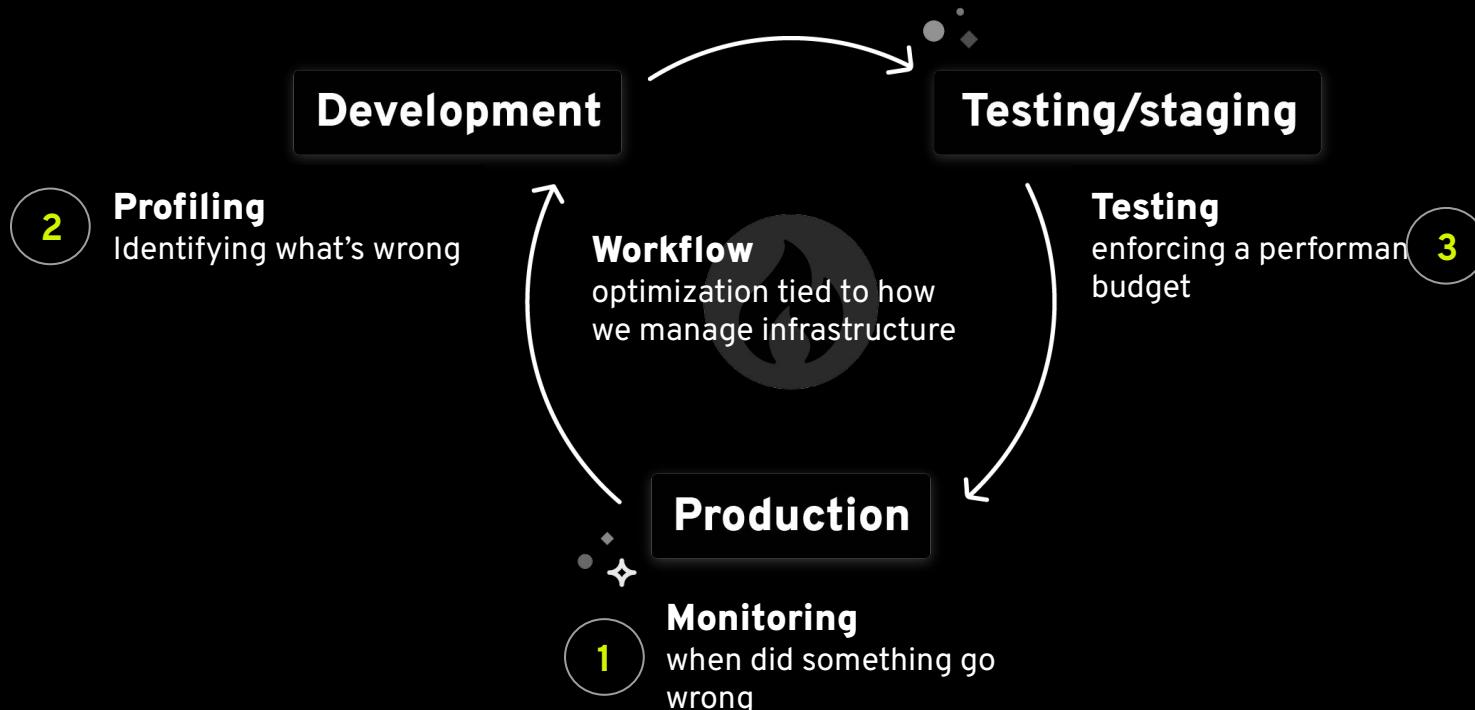


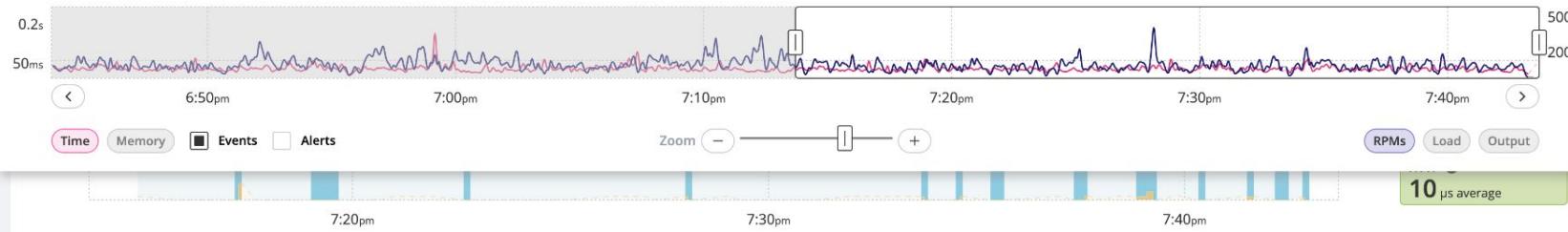
**IH-69 Southwest Southbound  
Connector Ramp To IH-610  
WEST LOOP southbound.**

**Closed Until Further Notice  
from Friday, April 29, 2022  
9:00 PM to Monday, April 29,  
2024 3:00 PM**

**Profiling**

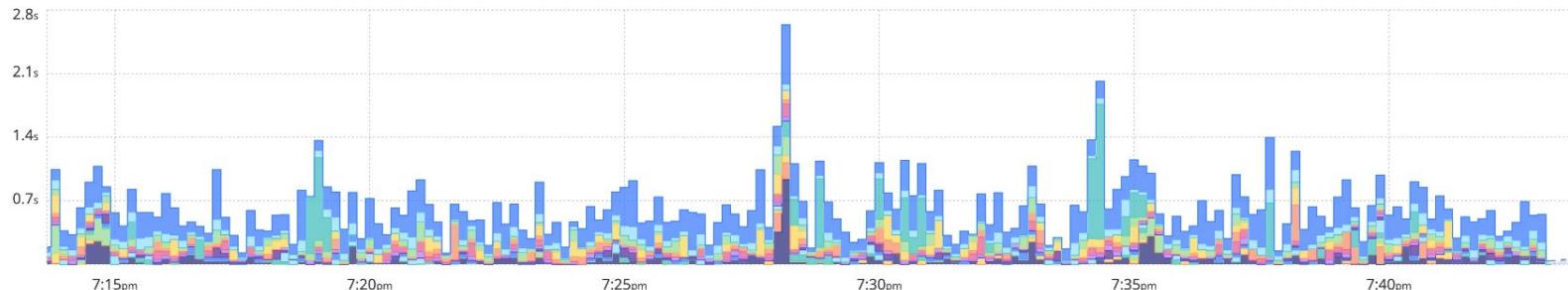
# Building a continuous observability strategy



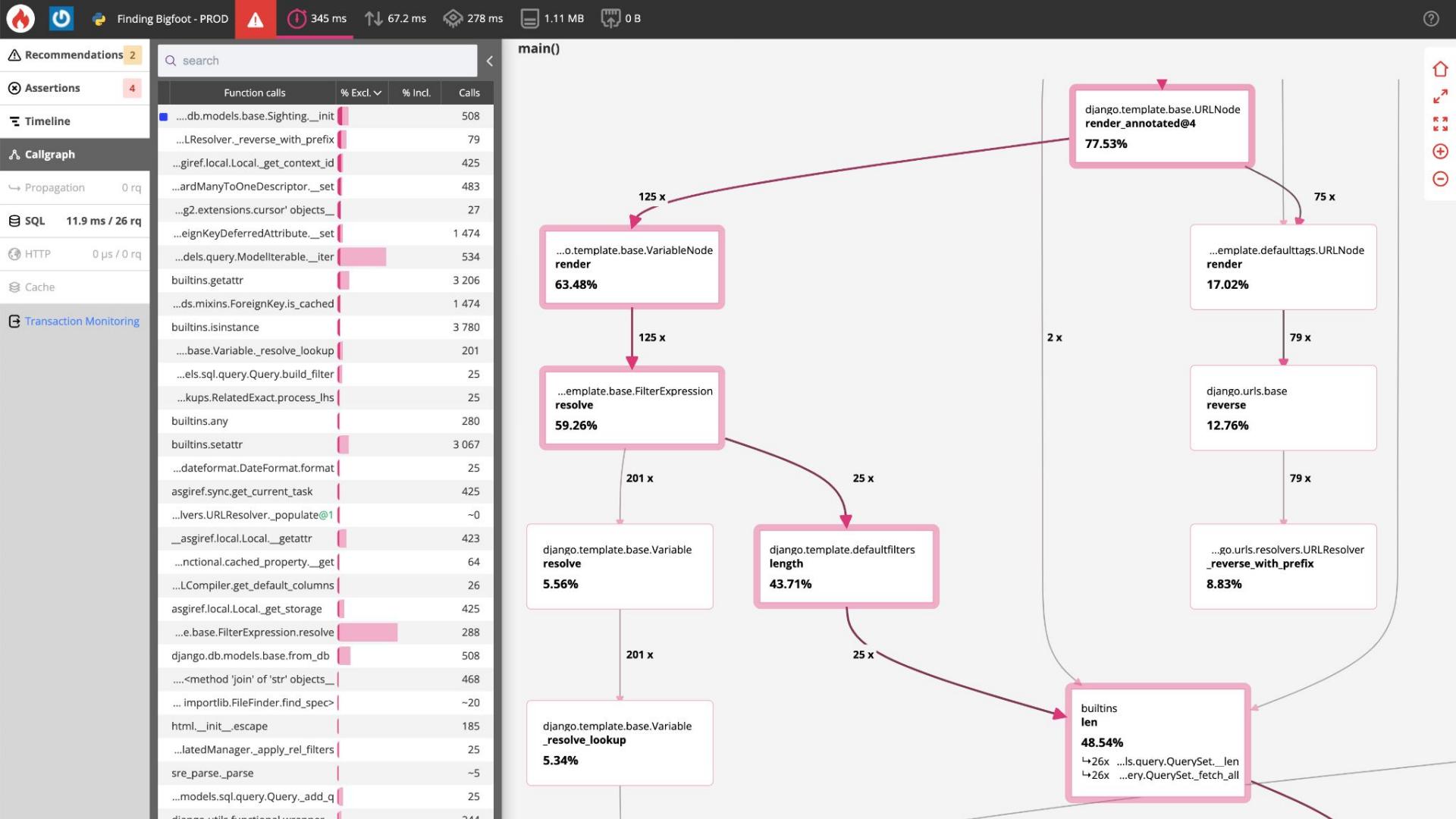


## Top Transactions | Top Services

Transactions [Wall-Time](#) [Wall-Time Consumed](#)



Name	Impact	Requests	Response Time	96th Percentile	Memory	Errors
App\Controller\DocController::docAction	37.2%	742	55.2 ms	72.5 ms	6.78 MB	-
App\Controller\SignInController::indexAction	9.56%	642	16.4 ms	22.7 ms	2.28 MB	-
App\Component\SearchComponent::__invoke	8.2%	88	102 ms	138 ms	2.39 MB	-
App\Controller\ContentController::homepageAction	6.64%	218	33.5 ms	44.4 ms	3 MB	-
App\Controller\BlogController::indexAction	6.61%	76	95.6 ms	138 ms	3.36 MB	-





Comparison

-2.97%

↑ -1.56%

diamond -3.31%

document -15%

up +0%

Delta  ?

## Callgraph

SQL +2.56 ms / +0 rq

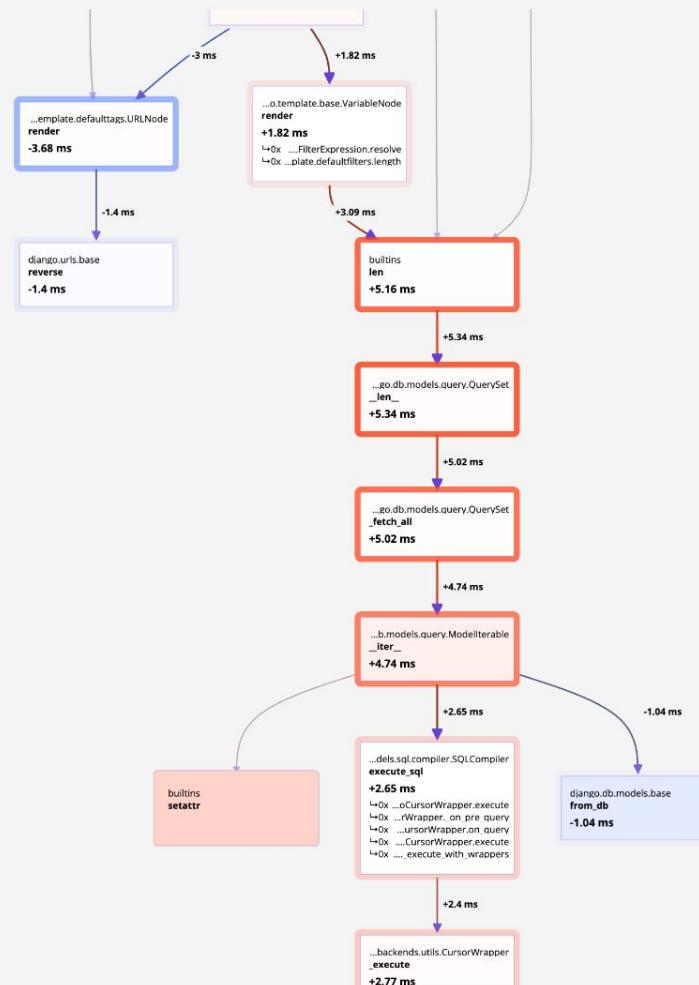
HTTP 0 µs / +0 rq

Cache

Transaction Monitoring

Function calls	% Incl.	Calls
django.template.defaultfilters.length	~0	+0
__django.db.models.query.QuerySet.__len__	~0	+0
builtins.len	~76	+0
django.db.models.query.QuerySet._fetch_all	~0	+0
__django.db.models.query.ModelIterable.__iter__	~0	+0
django.template.defaulttags.URLNode.render	~0	+0
django.template.base.FilterExpression.resolve	~0	+0
django.utils.functional.wrapper	~4	+0
builtins.getattr	~48	+0
django.utils.html.conditional_escape	~0	+0
asgiref.local.Local._get_context_id	~5	+0
__resolvers.URLResolver._reverse_with_prefix	~0	+0
__db.backends.utils.CursorWrapper._execute	~0	+0
__tils.CursorWrapper._execute_with_wrappers	~0	+0
__odels.sql.compiler.SQLCompiler.execute_sql	~0	+0
asgiref.local.Local._get_storage	~5	+0
__tils.deprecation.SessionMiddleware.__call__@1	~0	+0
django.core.handlers.exception.inner@1	~0	+0
__te' of 'psycopg2.extensions.cursor' objects__	~0	+0
__ware_DjangoCursorWrapper._on_pre_query	~0	+0
__middleware_DjangoCursorWrapper.execute	~0	+0
__o.db.backends.utils.CursorWrapper.execute	~0	+0
__leware_DjangoCursorWrapper.on_query(...)	~0	+0
__tils.deprecation.SessionMiddleware.__call__@5	~0	+0
django.core.handlers.exception.inner@5	~0	+0
__tils.deprecation.SessionMiddleware.__call__@3	~0	+0
django.core.handlers.exception.inner@3	~0	+0
django.core.handlers.exception.inner@4	~0	+0
__tils.deprecation.SessionMiddleware.__call__@4	~0	+0
django.core.handlers.exception.inner@2	~0	+0
__tils.deprecation.SessionMiddleware.__call__@2	~0	+0

## main()



# Tests: blocking regressions

Enforce a performance budget for known user scenarios with performance tests.

Prevent performance regressions and take up dedicated performance motivated sprints to make optimization a primary objective.

```
tests:
  'The homepage should be fast':
    path:
      - '/'
    assertions:
      - 'main.wall_time <= 250ms'

  "The homepage should not consume too much memory":
    path: "/"
    assertions:
      - "main.peak_memory < 2mb"

  "The number of created entities should be reasonable":
    path: "./*"
    assertions:
      - "metrics.entities.created.count < 50"

  "The homepage should have a limited number of SQL queries":
    path: "/"
    assertions:
      - "metrics.sql.queries.count <= 5"
    scenarios:
      | #!blackfire-player
        name: "Anonymous visits"

    scenario
      visit url('/user/login')
      expect status_code() == 200
      visit url('/user/password')
      expect status_code() == 200
      visit url('/contact')
      expect status_code() == 200
```

## ! #2 Prod Triggered Build

[View in Admin](#)

Finished *less than a minute ago* - Build triggered by Webhook 

[DETAILS](#) [OUTPUT](#) [NOTIFICATIONS](#)

### ⚠ 2 recommendations are common to all profiles

#### ! Basic Visit scenario

##### ! Homepage

[Show Profile](#)

⚠ 1 successful and 4 failing assertions

<https://main-bvxe6i-colxodint4t7g.ca-1.platformsh.site/>

##### Assertions

- |  |  |
|--|--|
| ✖ Comment count should be annotated to Sighting entity     | <code>metrics.app.comment_count_annotation.count 0 &gt; 0</code> |
| ✖ The homepage should be fast                              | <code>main.wall_time 313ms &lt; 100ms</code>                     |
| ✖ The homepage should have a limited number of SQL queries | <code>metrics.sql.queries.count 26 &lt;= 5</code>                |
| ✓ The homepage should not consume too much memory          | <code>main.peak_memory 565kB &lt; 2mb</code>                     |
| ✖ The number of created entities should be reasonable      | <code>metrics.entities.created.count 508 &lt; 50</code>          |



##### ! First sighting page

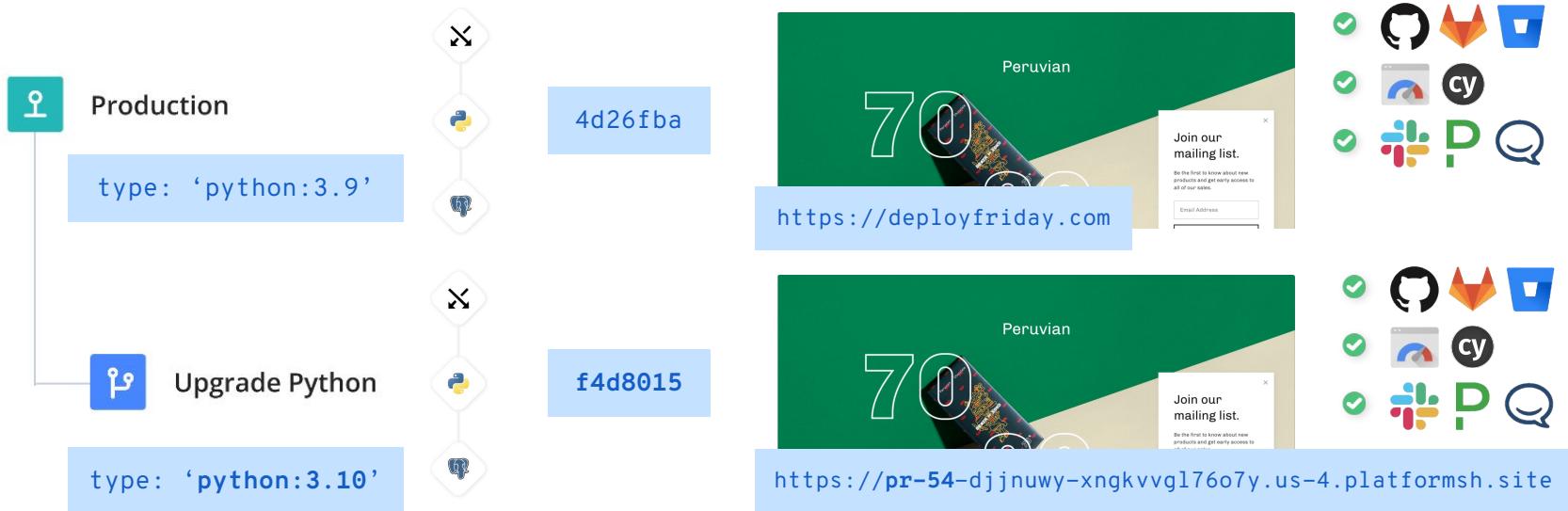
[Show Profile](#)

⚠ 2 failing assertions

<https://main-bvxe6i-colxodint4t7g.ca-1.platformsh.site/sighting/3/>

# True staging environments for every PR

Isolated, byte-level copies of code, infrastructure, and production data with **every** [git branch](#) and PR.





Register for **early access**.

