

Hey. I'm **G/**.

@guillaumedotid



And this is where I live...





My application



**Can't we just add more lanes?**

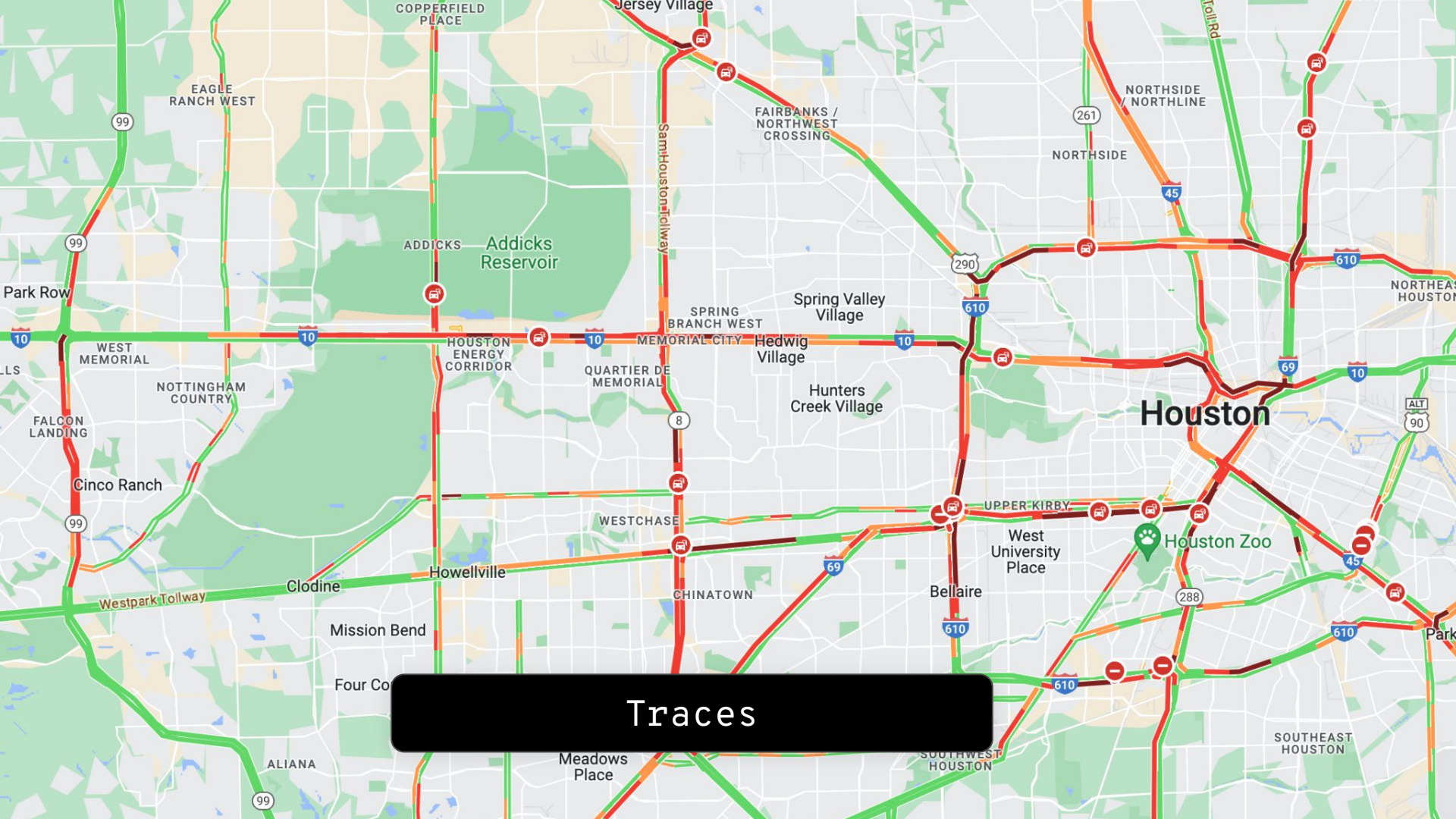
(servers and processes)

Short answer: **You should not.**

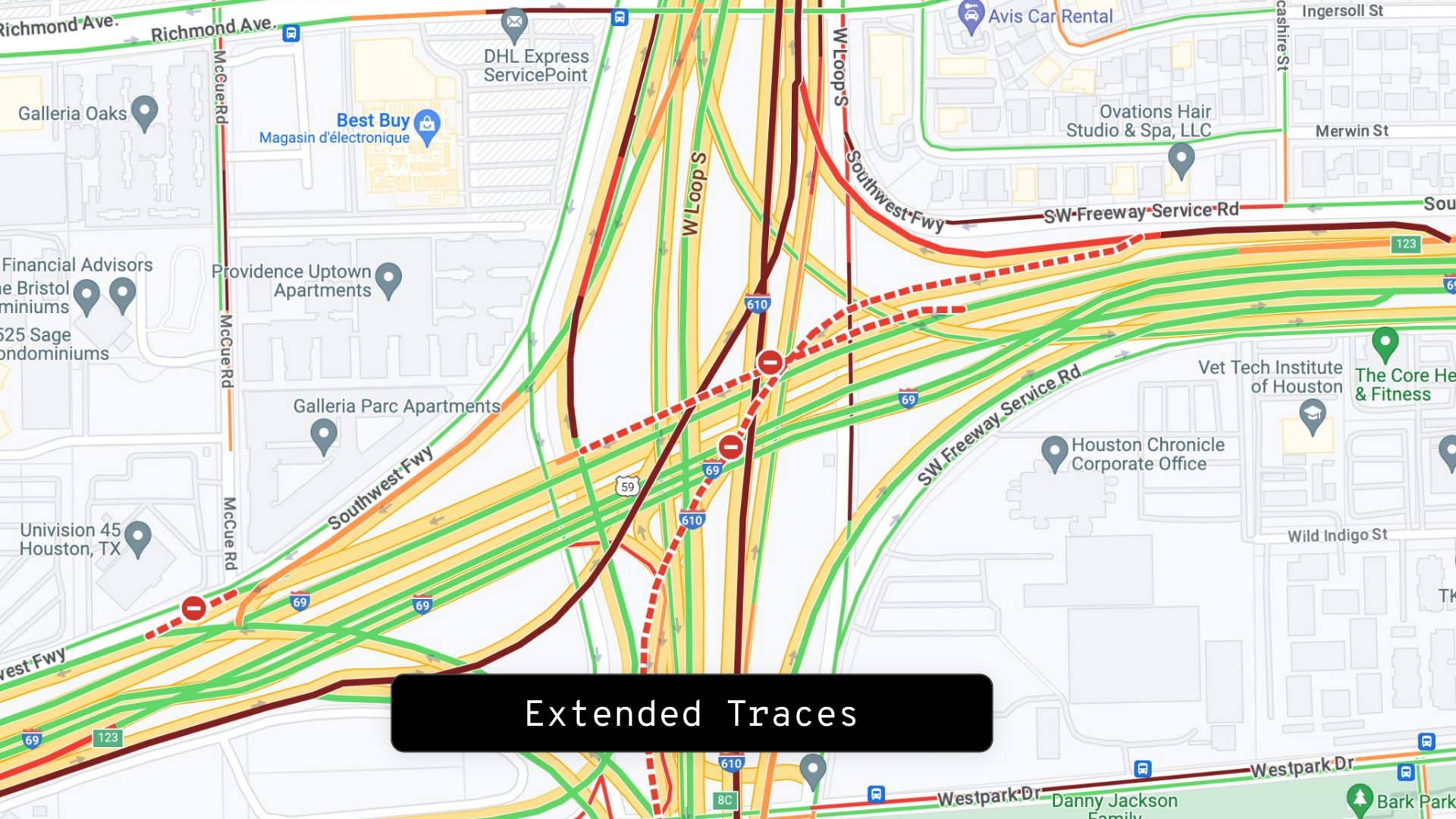
Can we **detect** and **fix issues** in production quickly?

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





Traces



Extended 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**

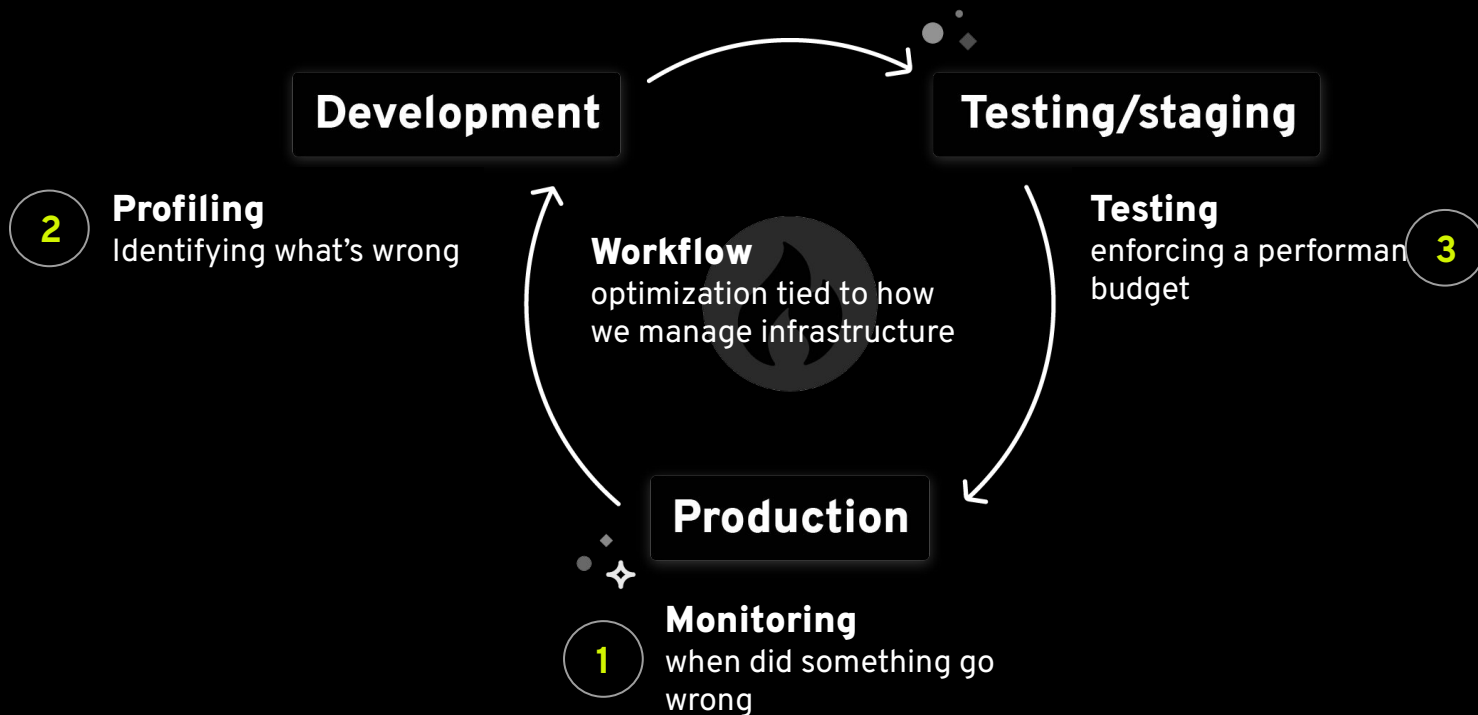
RAMP  
CLOSED

Profiling





# Building a continuous observability strategy





blackfire.io  
A Platform.sh product

Symfony  
1 environment

Health Report

Monitoring

Continuous ... Beta

Profiles

Builds

Alerting

Settings

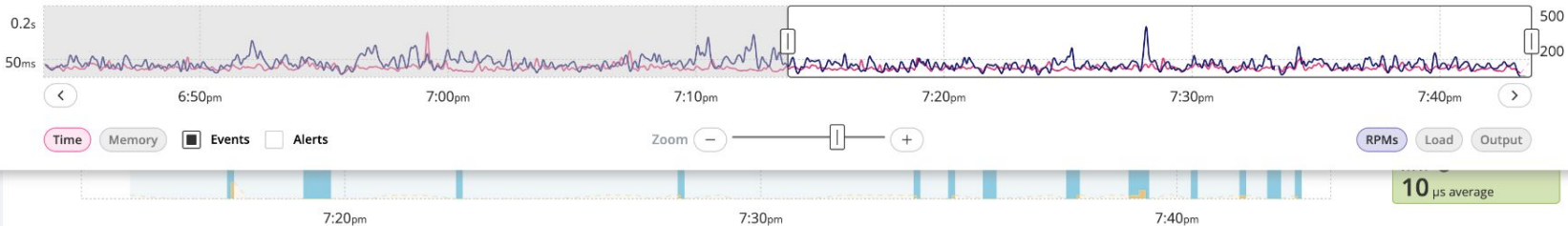
Docs

Blog

Guillaume Moig...

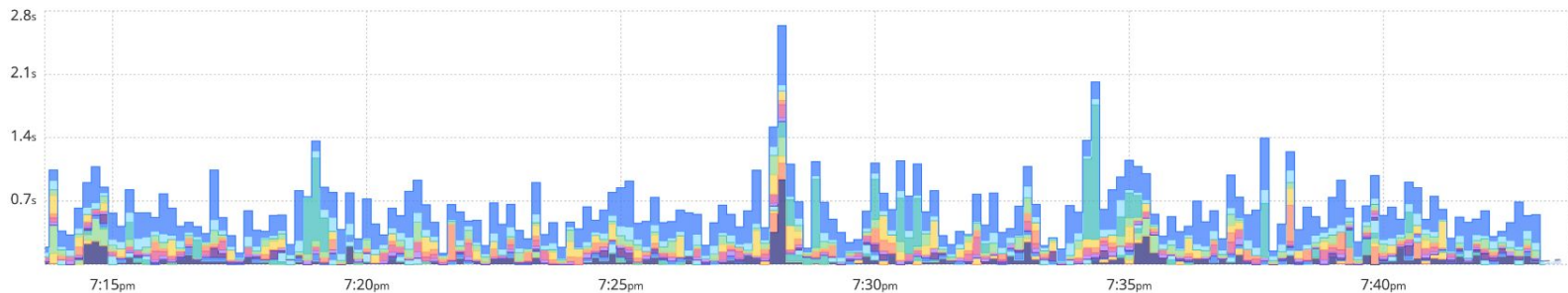
Context **Web** HTTP Host (All) HTTP Method (All) Host (All) Runtime (All)

Period Today 7:13 pm - 7:43 pm LIVE



### Top Transactions | Top Services

Transactions **Wall-Time** Wall-Time Consumed



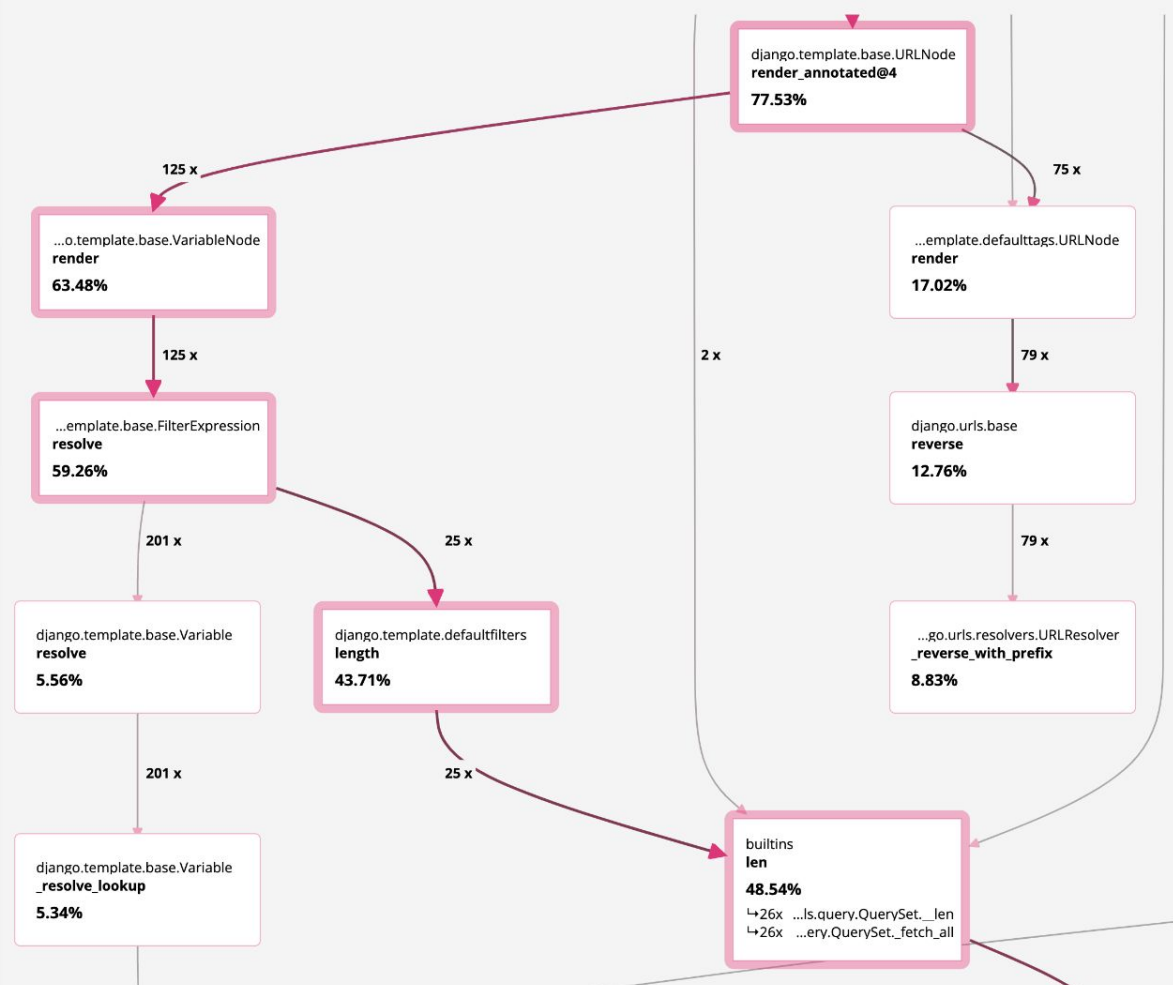
Name	Impact	Requests	Response Time	96th Percentile	Memory	Errors
App\Controller\DocController::docAction	37.2%	742	55.2 ms	72.5 ms	6.78 MB	-
App\Controller\SinController::indexAction	9.56%	642	16.4 ms	22.7 ms	2.28 MB	-
App\Component\SearchComponent::__invoke	8.2%	88	102 ms	138 ms	2.39 MB	-
App\Controller\ContentController::homepageAction	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	-

- 🚨 Recommendations 2
- 🔍 Assertions 4
- 📅 Timeline
- 🌐 Callgraph
- 📡 Propagation 0 rq
- 📄 SQL 11.9 ms / 26 rq
- 🌐 HTTP 0 μs / 0 rq
- 📄 Cache
- 📄 Transaction Monitoring

🔍 search

Function calls	% Excl. ▾	% Incl.	Calls
...db.models.base.Sighting.__init			508
...LResolver._reverse_with_prefix			79
...giref.local.Local._get_context_id			425
...ardManyToOneDescriptor.__set			483
...g2.extensions.cursor' objects_			27
...eignKeyDeferredAttribute.__set			1 474
...dels.query.ModelIterable.__iter			534
builtins.getattr			3 206
...ds.mixins.ForeignKey.is_cached			1 474
builtins.isinstance			3 780
...base.Variable._resolve_lookup			201
...els.sql.query.Query.build_filter			25
...kups.RelatedExact.process_lhs			25
builtins.any			280
builtins.setattr			3 067
...dateformat.DateFormat.format			25
asgiref.sync.get_current_task			425
...lvers.URLResolver._populate@1			~0
__asgiref.local.Local._getattr			423
...nctional.cached_property._get			64
...LCompiler.get_default_columns			26
asgiref.local.Local._get_storage			425
...e.base.FilterExpression.resolve			288
django.db.models.base.from_db			508
...<method 'join' of 'str' objects_			468
... importlib.FileFinder.find_spec			~20
html._init__escape			185
...latedManager._apply_rel_filters			25
sre_parse_parse			~5
...models.sql.query.Query._add_q			25
django.utils.functional.unwrapper			244

main()

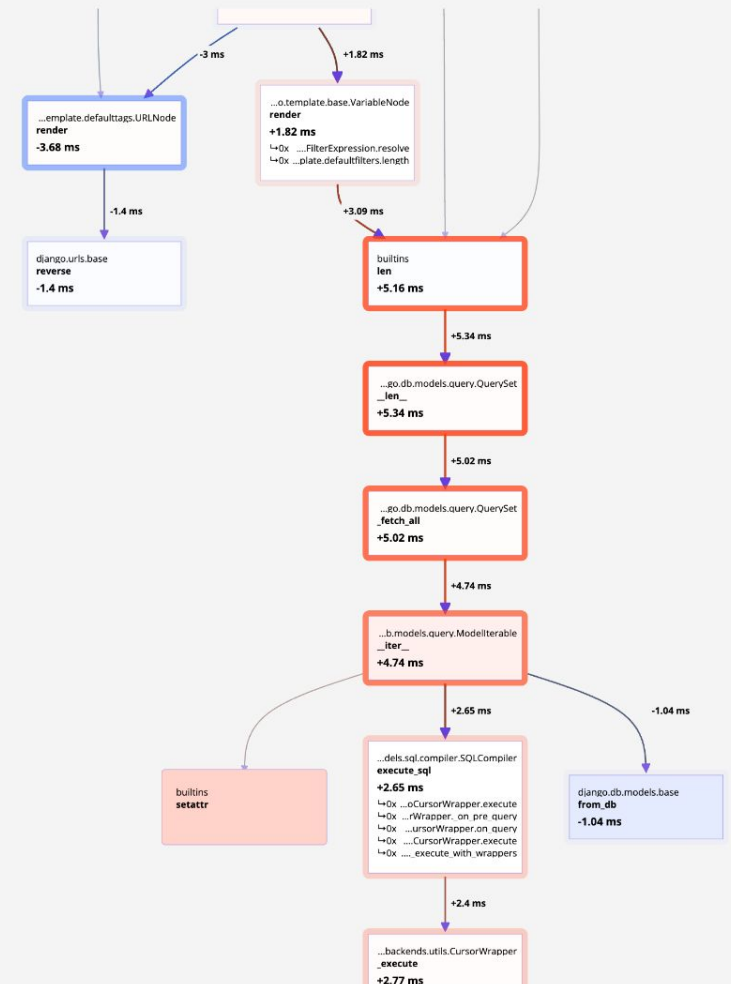




- SQL +2.56 ms / +0 rq
- HTTP 0 μs / +0 rq
- Cache
- Transaction Monitoring

Function calls	% Incl. v	Calls
django.template.defaultfilters.length		+0
__django.db.models.query.QuerySet.__len		+0
builtins.len		~76
django.db.models.query.QuerySet._fetch_all		+0
...django.db.models.query.ModelIterable.__iter		+0
django.template.defaulttags.URLNode.render		+0
django.template.base.FilterExpression.resolve		+0
django.utils.functional.wrapper		~4
builtins.getattr		-48
django.utils.html.conditional_escape		+0
asgiref.local.Local._get_context_id		~5
...resolvers.URLResolver._reverse_with_prefix		+0
...db.backends.utils.CursorWrapper._execute		+0
...tils.CursorWrapper._execute_with_wrappers		+0
...odels.sql.compiler.SQLCompiler.execute_sql		+0
asgiref.local.Local._get_storage		~5
...tils.deprecation.SessionMiddleware.__call@1		+0
django.core.handlers.exception.inner@1		+0
...te' of 'psycopg2.extensions.cursor' objects__		+0
...ware._DjangoCursorWrapper.on_pre_query		+0
...middleware._DjangoCursorWrapper.execute		+0
...o.db.backends.utils.CursorWrapper.execute		+0
...leware._DjangoCursorWrapper.on_query(...)		+0
...tils.deprecation.SessionMiddleware.__call@5		+0
django.core.handlers.exception.inner@5		+0
...tils.deprecation.SessionMiddleware.__call@3		+0
django.core.handlers.exception.inner@3		+0
django.core.handlers.exception.inner@4		+0
...tils.deprecation.SessionMiddleware.__call@4		+0
django.core.handlers.exception.inner@2		+0
...tils.deprecation.SessionMiddleware.__call@2		+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

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-bvxea6i-colxodint4t7g.ca-1.platformsh.site/>

#### Assertions



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

#### First sighting page

[Show Profile](#)

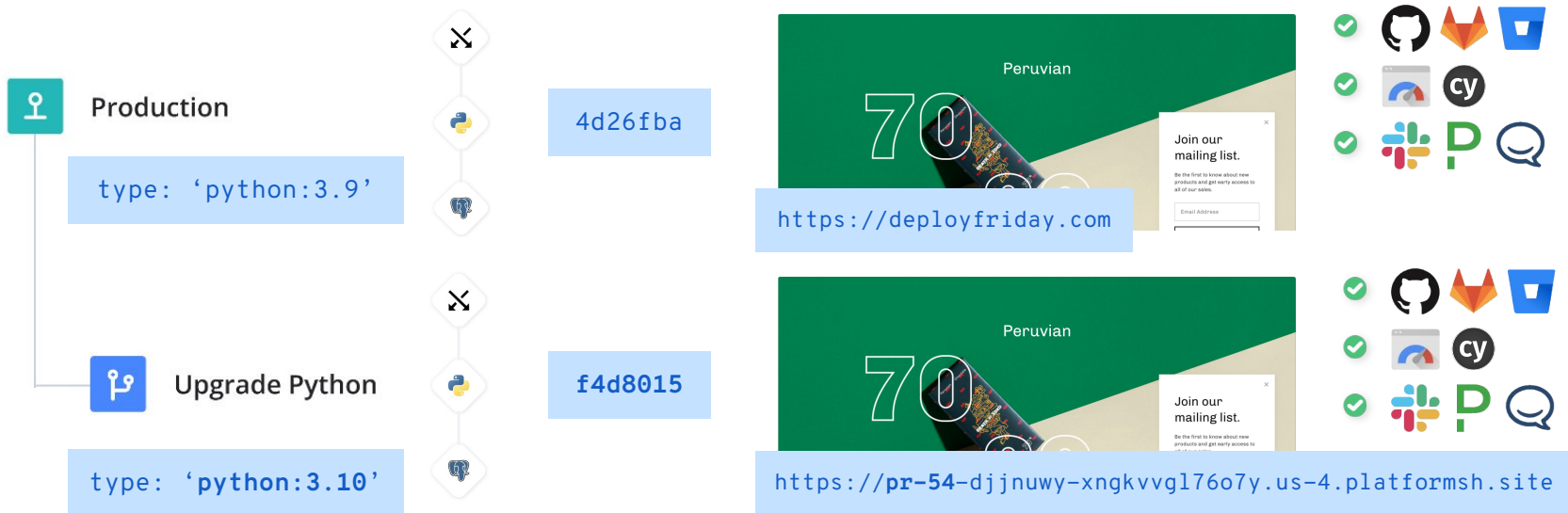
 2 failing assertions

<https://main-bvxea6i-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.**

