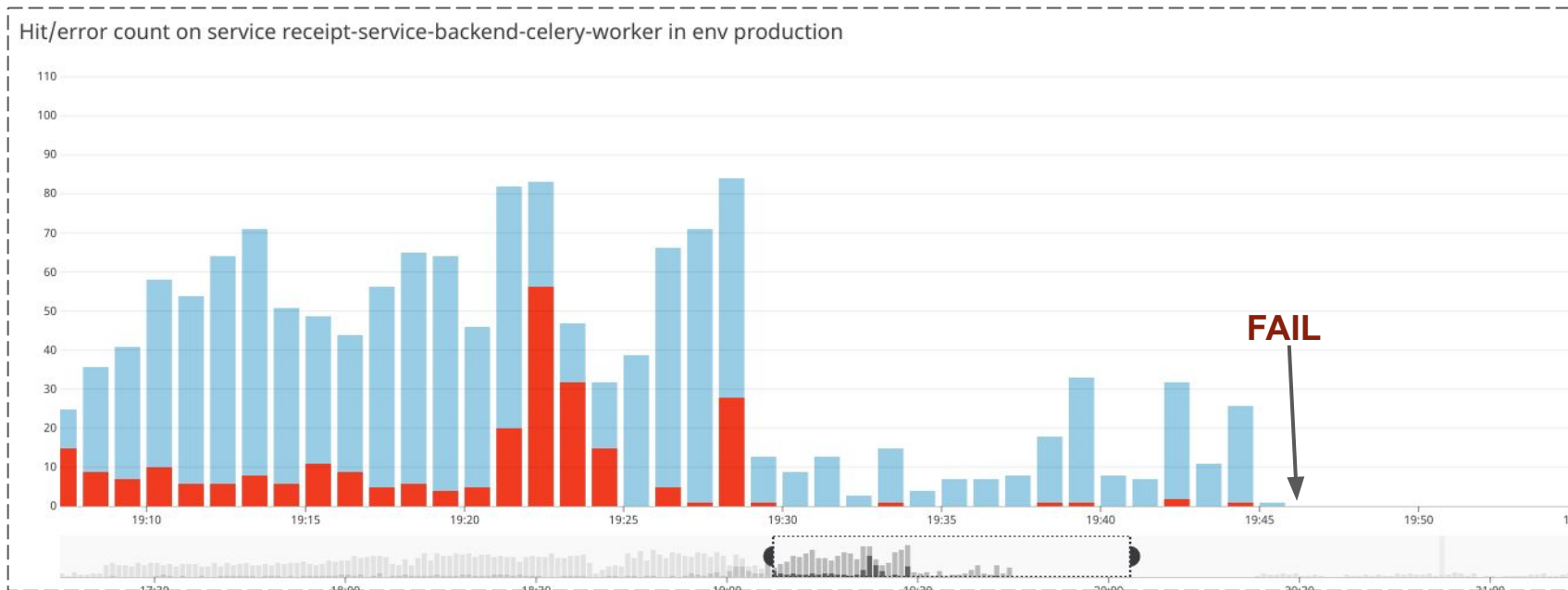


Мониторинг с батареями на DATADOG

Лев Бородин

ИНЦИДЕНТ



Datadog

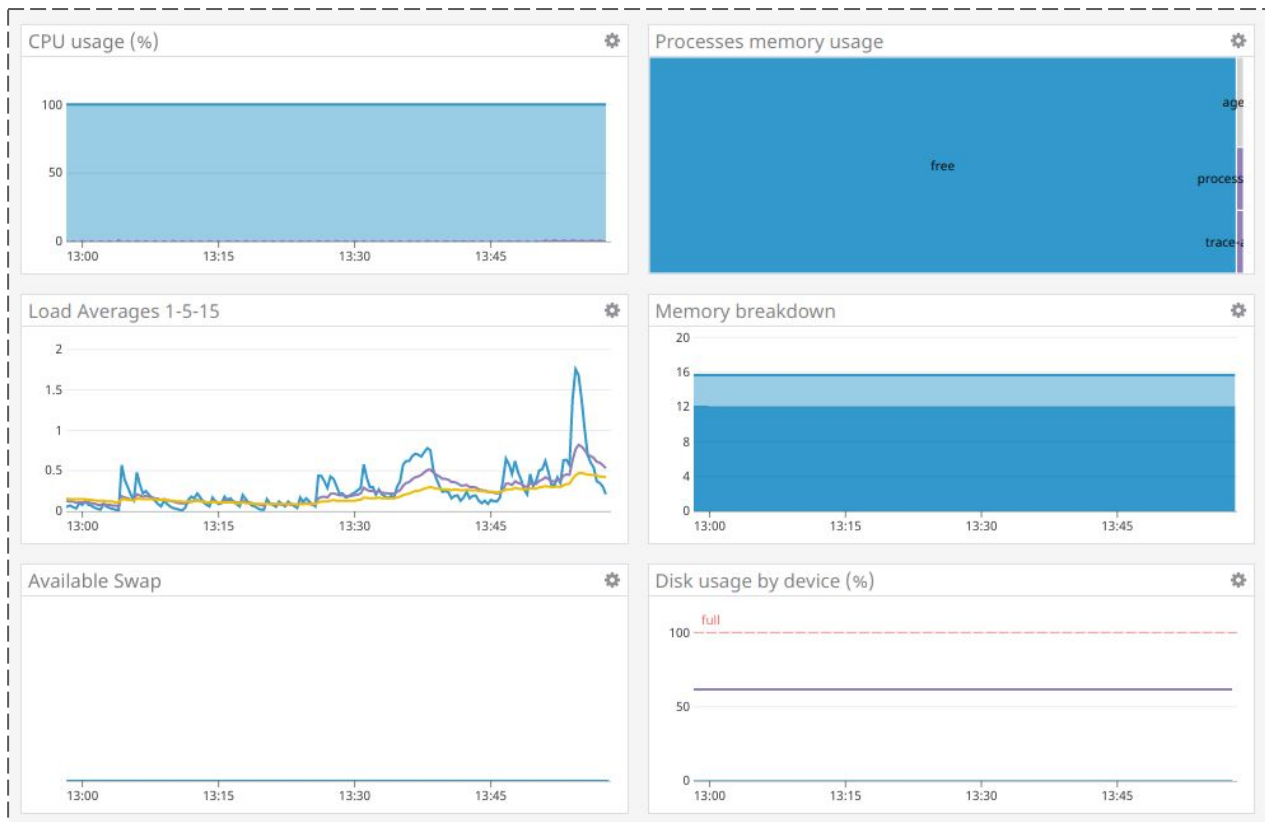
prometheus
cacti
nagios
zabbix

Инструменты анализа телеметрии

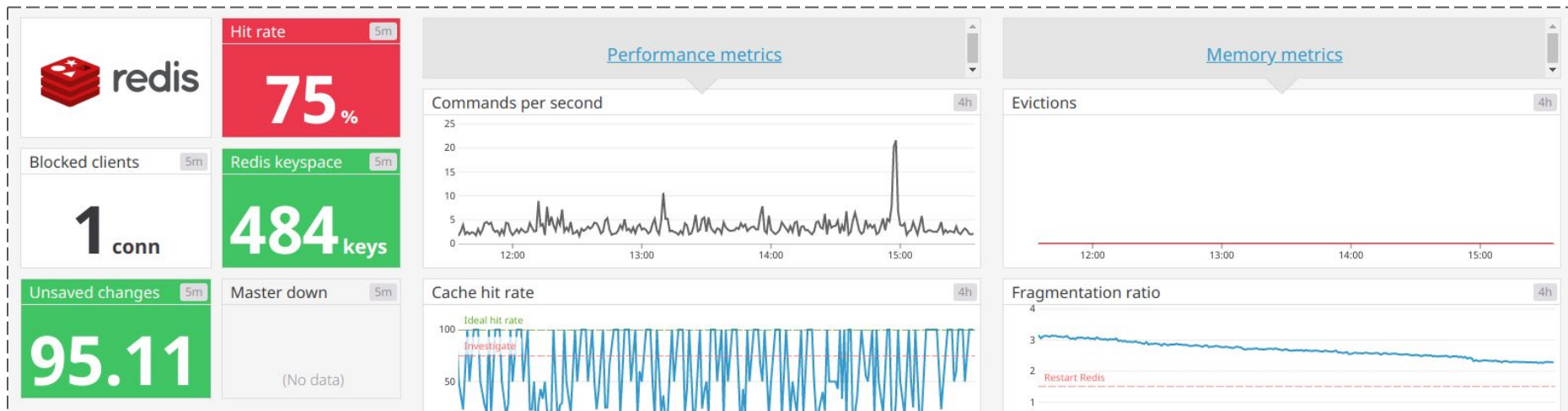
04

I/O

- CPU
- MEMORY
- DISK
- NETWORK
- etc



МОНИТОРИНГ СЕРВИСОВ



Application Performance Monitoring (APM)

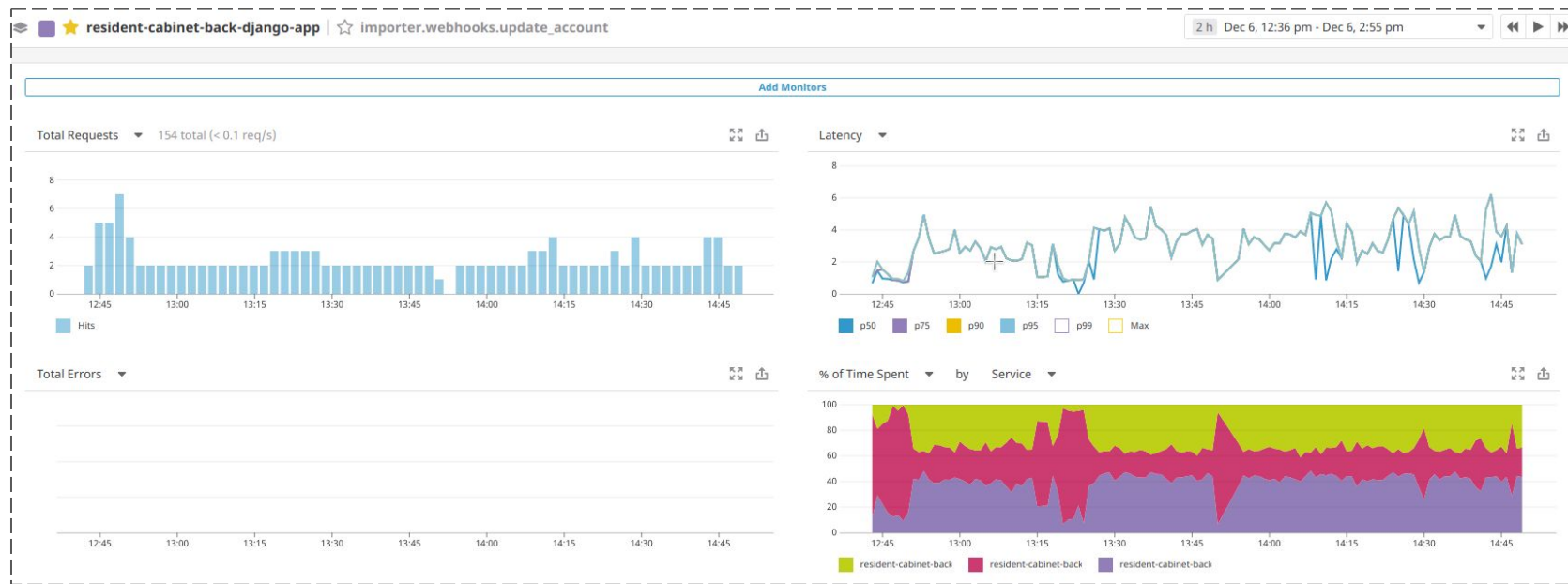
APM

- Python
- Java
- Node.js
- Golang
- C++
- etc

Resources

| | NAME | REQUESTS | AVG LATENCY | P95 LATENCY ↓ | MAX LATENCY | TOTAL TIME | ERROR RATE |
|---|--------------------------------------|----------|-------------|---------------|-------------|------------|------------|
| ☆ | importer.webhooks.update_accour | 65 | 2955 ms | 4798 ms | 5981 ms | 192 s | 0% |
| ☆ | django.contrib.admin.options.char | 41 | 2011 ms | 3028 ms | 3326 ms | 82.4 s | 0% |
| ☆ | billing.api.v2.viewsets.ReceiptView! | 2.03k | 300 ms | 1476 ms | 2303 ms | 10 min 8 s | 0% |
| ★ | accounting.api.v5.viewsets.Mobilef | 2.65k | 658 ms | 1200 ms | 4278 ms | 29 min 2 s | 0% |
| ★ | accounting.api.v4.viewsets.Mobilef | 338 | 669 ms | 1174 ms | 5142 ms | 226 s | 0% |
| ☆ | billing.api.v4.viewsets.MobileReceij | 117 | 304 ms | 1084 ms | 1443 ms | 35.5 s | 0% |
| ☆ | billing.api.v3.viewsets.MobileReceij | 3 | 709 ms | 1036 ms | 1036 ms | 2.13 s | 0% |
| ★ | accounting.api.v5.viewsets.Mobilef | 43 | 237 ms | 1002 ms | 1485 ms | 10.2 s | 0% |
| ★ | accounting.api.v3.viewsets.Mobilef | 41 | 641 ms | 861 ms | 1141 ms | 26.3 s | 0% |
| ☆ | accounting.api.v2.viewsets.Mobilef | 3 | 375 ms | 457 ms | 457 ms | 1.13 s | 0% |
| ☆ | meters.api.v1.viewsets.MeterReadi | 3.38k | 134 ms | 439 ms | 753 ms | 7 min 32 s | 0% |

view stat



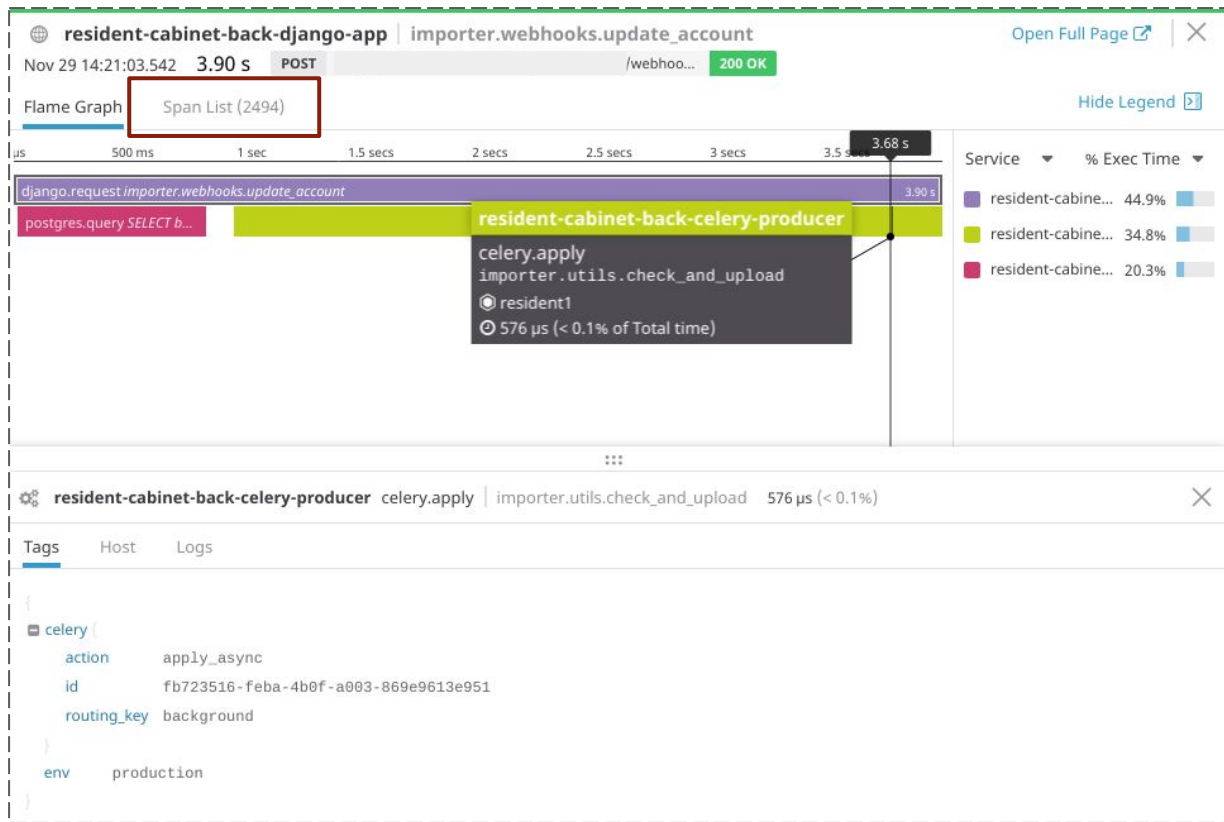
request list

[Hide Controls](#)

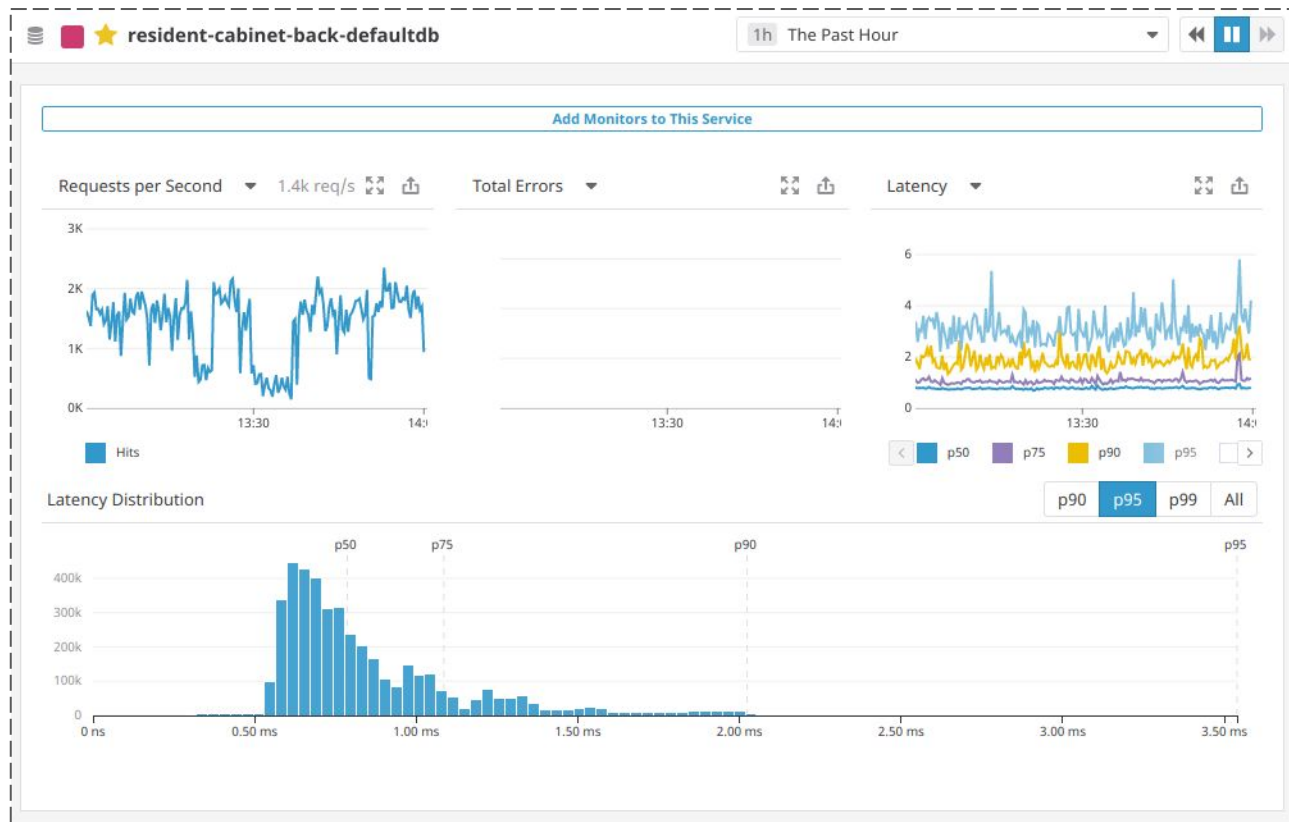
130 traces found

| DATE ↓ | SERVICE | DURATION | HTTP M... | STATUS CODE | LATENCY BREAKDOWN | RESOURCE |
|---------------------|----------------------------------|-----------|-----------|-------------|-------------------|------------------------------------|
| Dec 06 14:49:07.552 | resident-cabinet-back-django-app | 3.11s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:48:07.334 | resident-cabinet-back-django-app | 3.78s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:47:05.006 | resident-cabinet-back-django-app | 1334.2ms | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:46:07.996 | resident-cabinet-back-django-app | 4.27s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:45:07.152 | resident-cabinet-back-django-app | 3.59s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:44:10.622 | resident-cabinet-back-django-app | 3.1s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:44:07.481 | resident-cabinet-back-django-app | 3.9s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:43:11.530 | resident-cabinet-back-django-app | 1728.07ms | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:43:09.792 | resident-cabinet-back-django-app | 6.23s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:42:08.710 | resident-cabinet-back-django-app | 5.26s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:41:05.659 | resident-cabinet-back-django-app | 2.03s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:39:06.766 | resident-cabinet-back-django-app | 3.31s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:38:07.073 | resident-cabinet-back-django-app | 3.41s | POST | 200 | | > importer.webhooks.update_account |
| Dec 06 14:37:07.359 | resident-cabinet-back-django-app | 3.64s | POST | 200 | | > importer.webhooks.update_account |

Request info



PostgreSQL

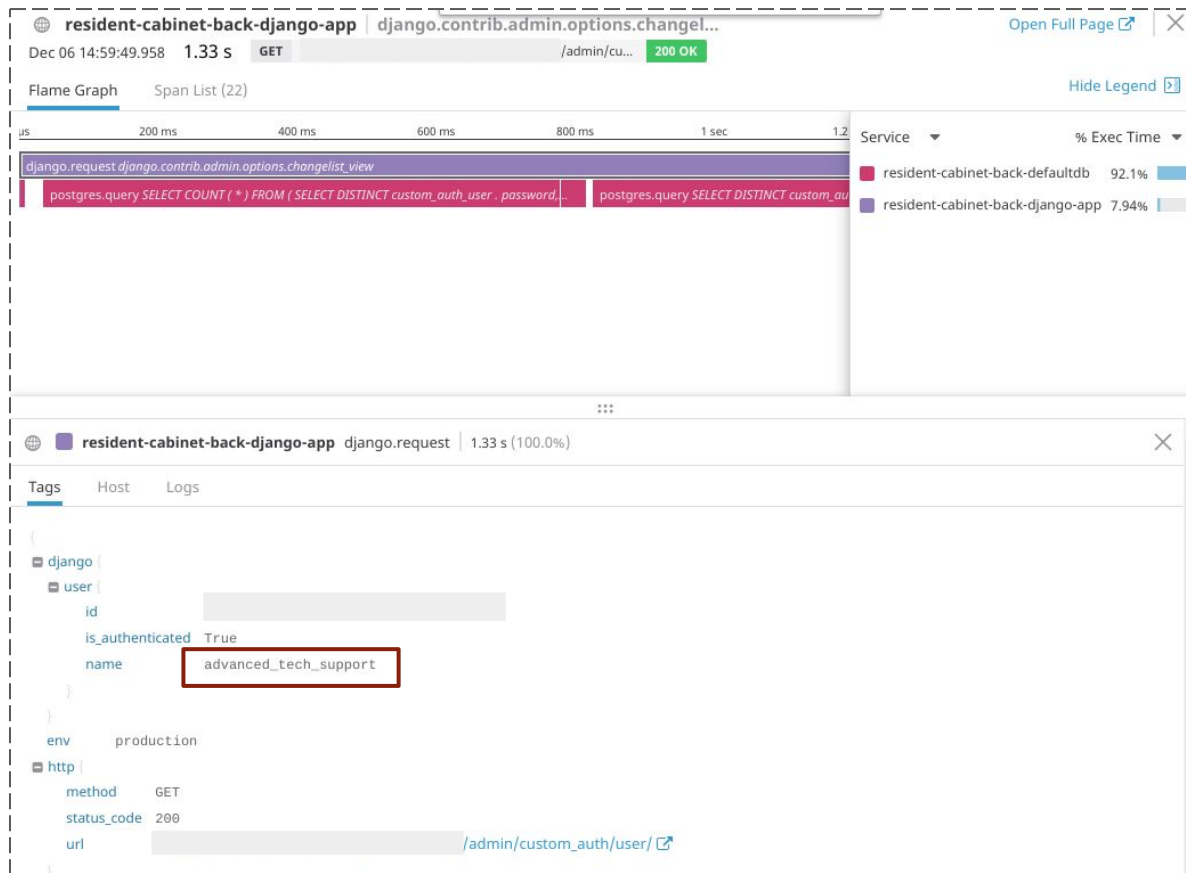


PostgreSQL

Queries Search resource

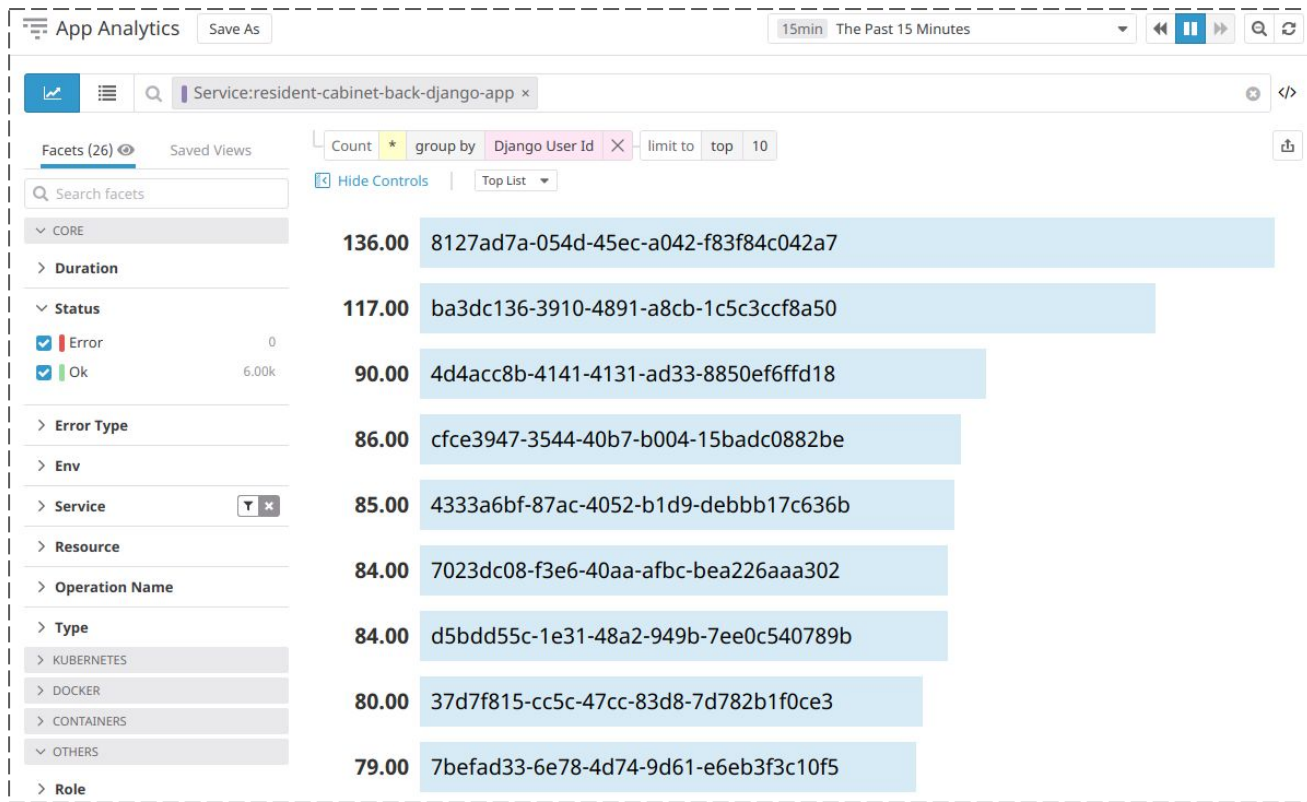
| | NAME | REQUESTS | AVG LATENCY | P95 LATEN... ↓ | MAX LATENCY | TOTAL TIME | ERRORS | ERROR RATE |
|---|---------------------------------|----------|-------------|----------------|-------------|-------------|--------|------------|
| ☆ | SELECT DISTINCT custom_auth | 103 | 1582 ms | 1650 ms | 1699 ms | 163 s | 0 | 0% |
| ☆ | SELECT billing_userpayment . c | 3 | 1576 ms | 1623 ms | 1623 ms | 4.73 s | 0 | 0% |
| ☆ | SELECT COUNT (*) FROM billir | 4 | 1422 ms | 1552 ms | 1552 ms | 5.69 s | 0 | 0% |
| ☆ | SELECT billing_userpayment . c | 1 | 1542 ms | 1541 ms | 1541 ms | 1.54 s | 0 | 0% |
| ☆ | SELECT billing_userpayment . c | 2 | 835 ms | 886 ms | 886 ms | 1.67 s | 0 | 0% |
| ☆ | SELECT COUNT (*) FROM (SEI | 103 | 788 ms | 839 ms | 1529 ms | 81.2 s | 0 | 0% |
| ☆ | WITH clusters SELECT ST_Num(| 2.67k | 69 ms | 817 ms | 935 ms | 183 s | 0 | 0% |
| ☆ | SELECT billing_account . import | 130 | 681 ms | 753 ms | 777 ms | 88.5 s | 0 | 0% |
| ☆ | SELECT COUNT (*) FROM billir | 8 | 137 ms | 333 ms | 333 ms | 1.10 s | 0 | 0% |
| ☆ | SELECT custom_auth_user . pas | 2.81k | 264 ms | 325 ms | 411 ms | 12 min 22 s | 0 | 0% |
| ☆ | SELECT (?) FROM tickets_ticke | 5 | 163 ms | 295 ms | 295 ms | 816 ms | 0 | 0% |

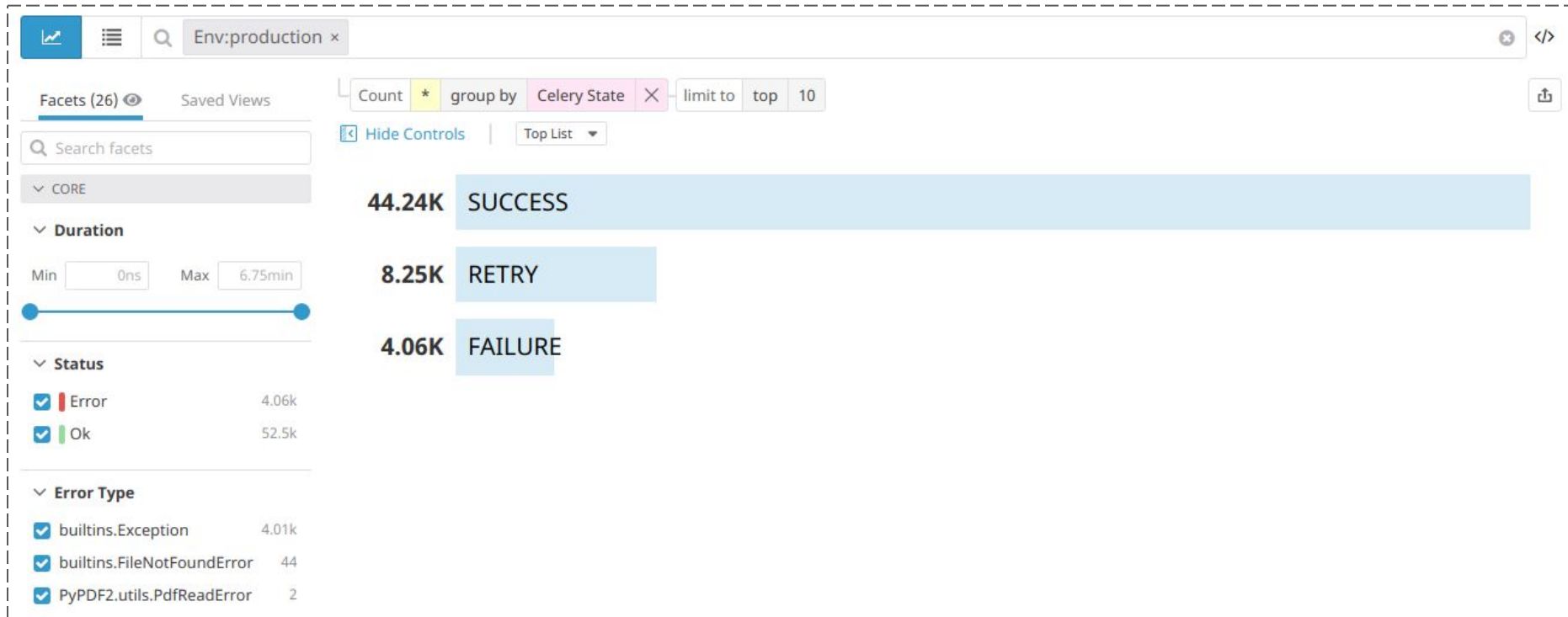
PostgreSQL



Аналитика

App Analytics

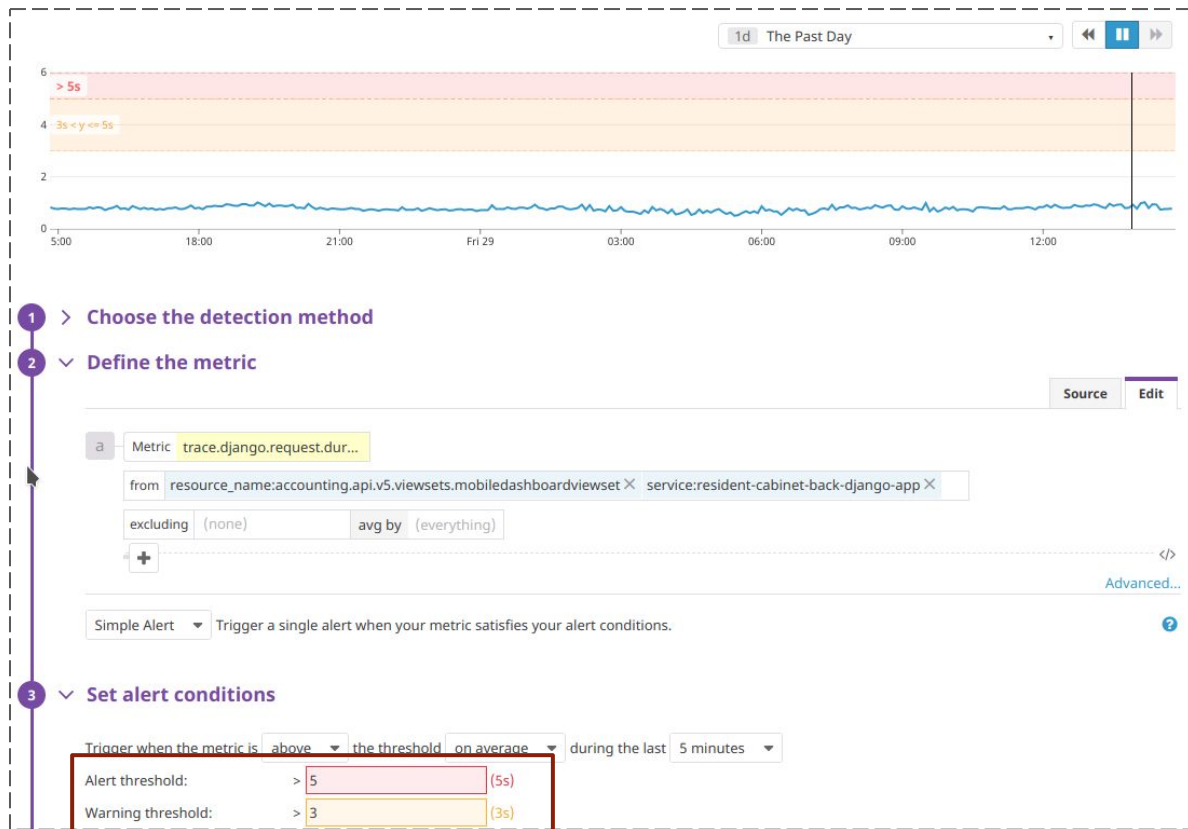


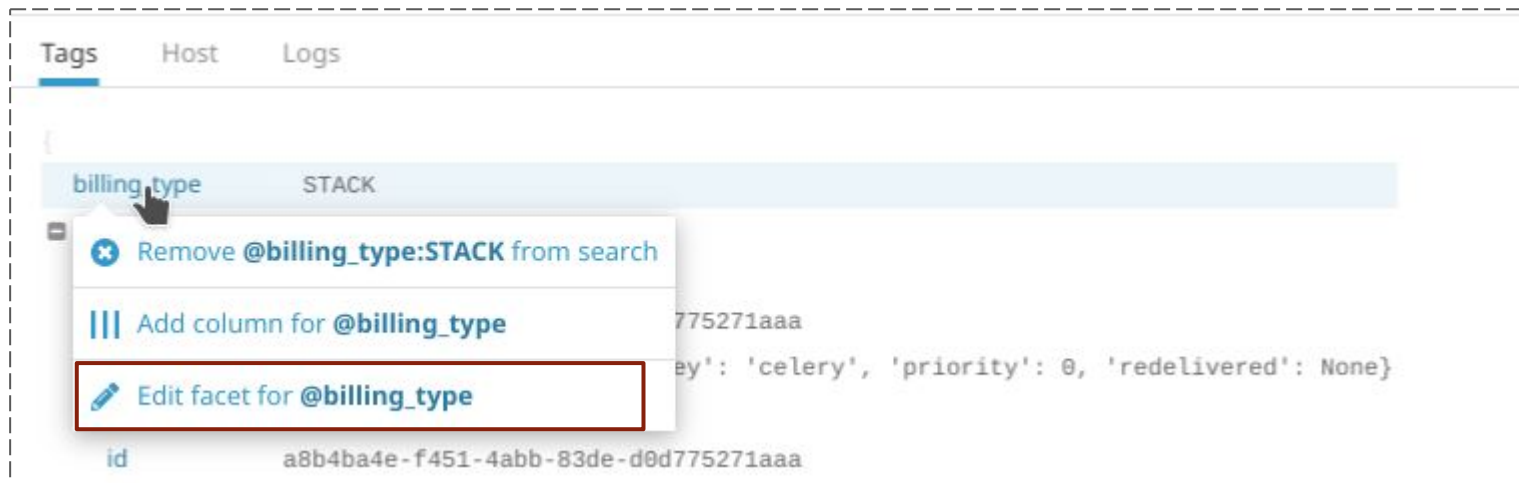


Мониторы метрик

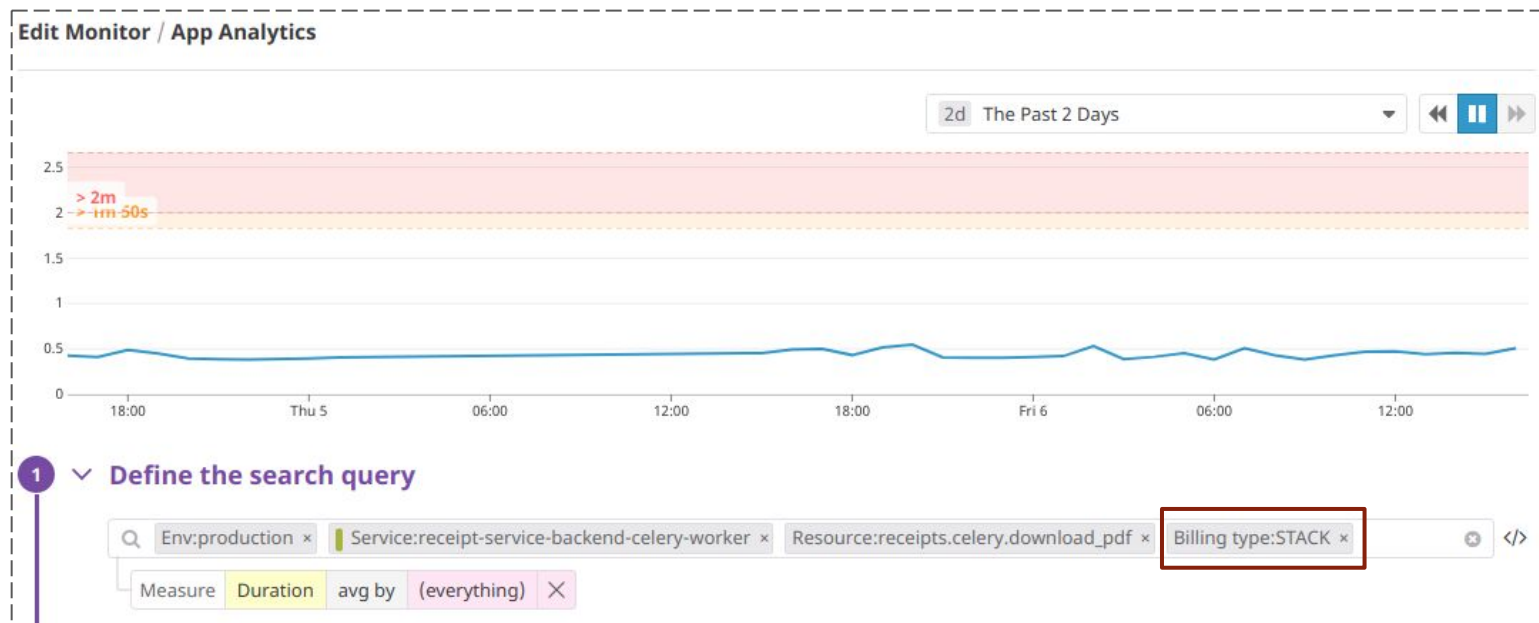
Monitors

- Threshold
- Anomaly
- Outliers
- Forecast





Monitors



Подключение DATADOG

settings

- docker agent
- django settings
- custom tags

```
DOCKER_CONTENT_TRUST=1 \  
docker run -d -v /var/run/docker.sock:/var/run/docker.sock:ro \  
    -v /proc:/host/proc:ro \  
    -v /sys/fs/cgroup:/host/sys/fs/cgroup:ro \  
    -e DD_API_KEY=<YOUR_DATADOG_API_KEY> \  
    datadog/agent:latest
```

Django settings

```
DATADOG_TRACE = {  
    'DEFAULT_SERVICE': SERVICE_NAME + '-django-app',  
    'DEFAULT_DATABASE_PREFIX': SERVICE_NAME,  
    'AGENT_HOSTNAME': 'localhost',  
    'AGENT_PORT': '8126',  
    'TAGS': {'env': ENVIRONMENT},  
}  
  
INSTALLED_APPS = [  
    ...,  
  
    # DATADOG  
    'ddtrace.contrib.django',  
  
    ...,  
]
```


Custom tags

```
@app.task(base=TaskDownloadPdf)
def download_pdf(datasource_type: str):
    ...

    current_span = tracer.current_span()
    if current_span:
        current_span.set_tag('billing_type', datasource_type)

    ...
```

Спасибо!

<https://bit.ly/35N9Vz4>

Ссылки на datadog

