Monitoring in Production

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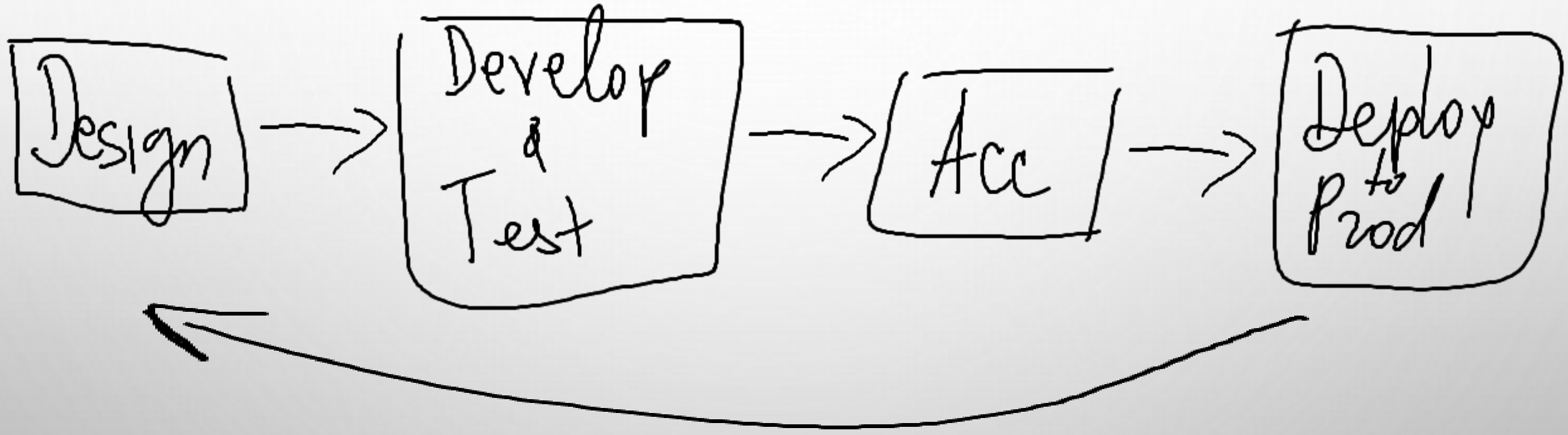
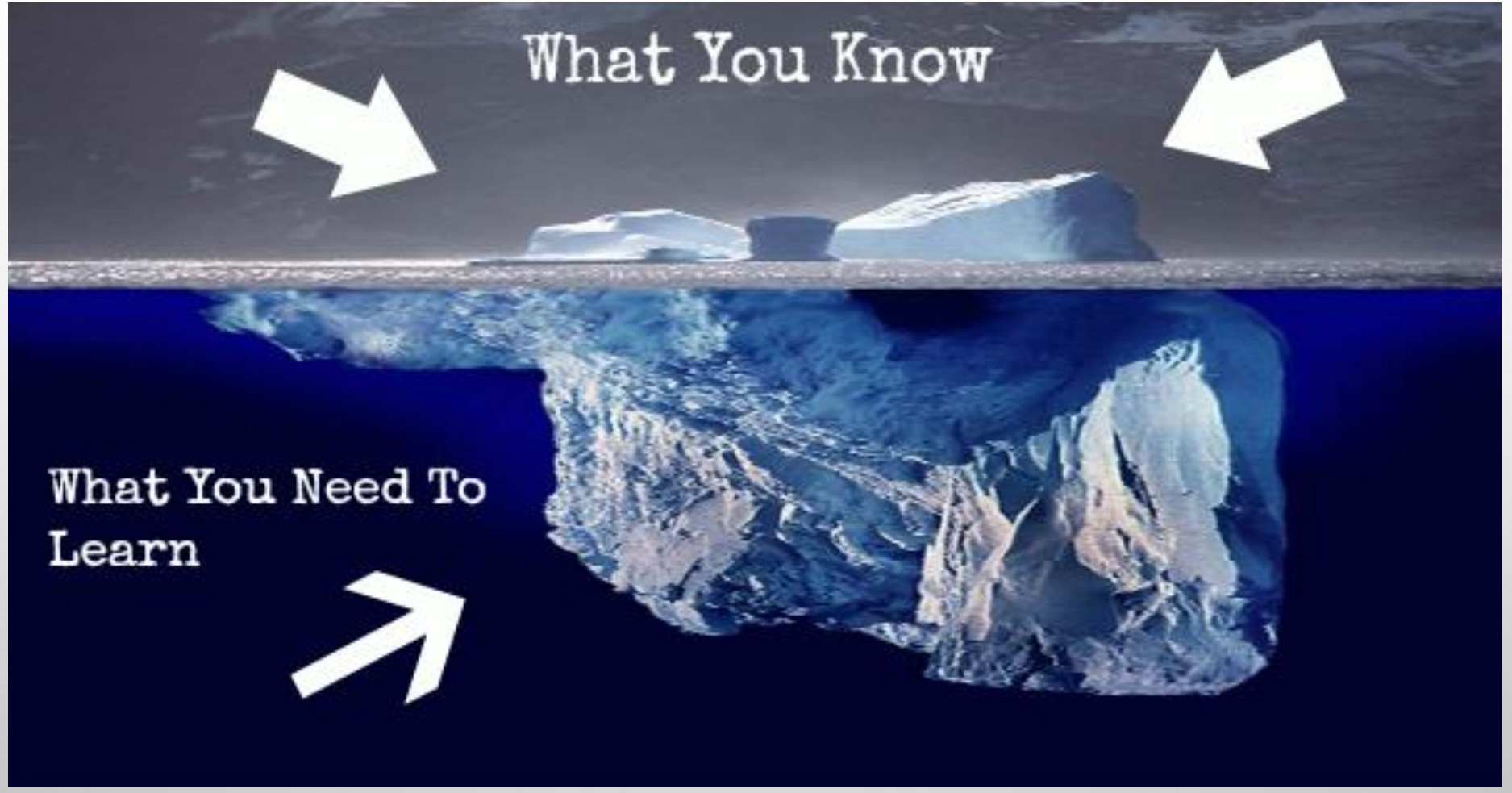
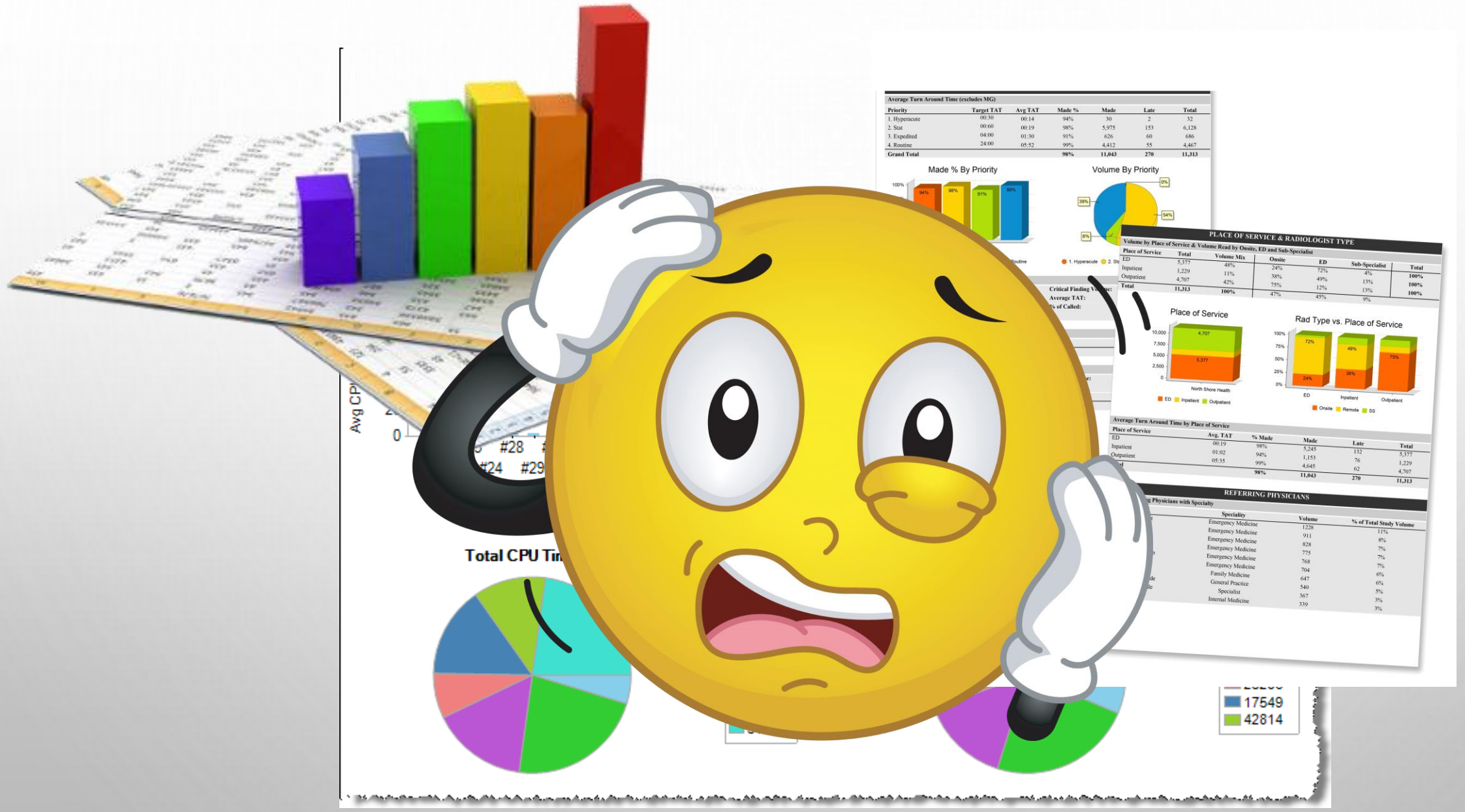
TEST'RS CLUB

levi nine Technology Services


Design
Develop
&
Test
Acc
Deploy
to
Prod


What You Know
What You Need To Learn



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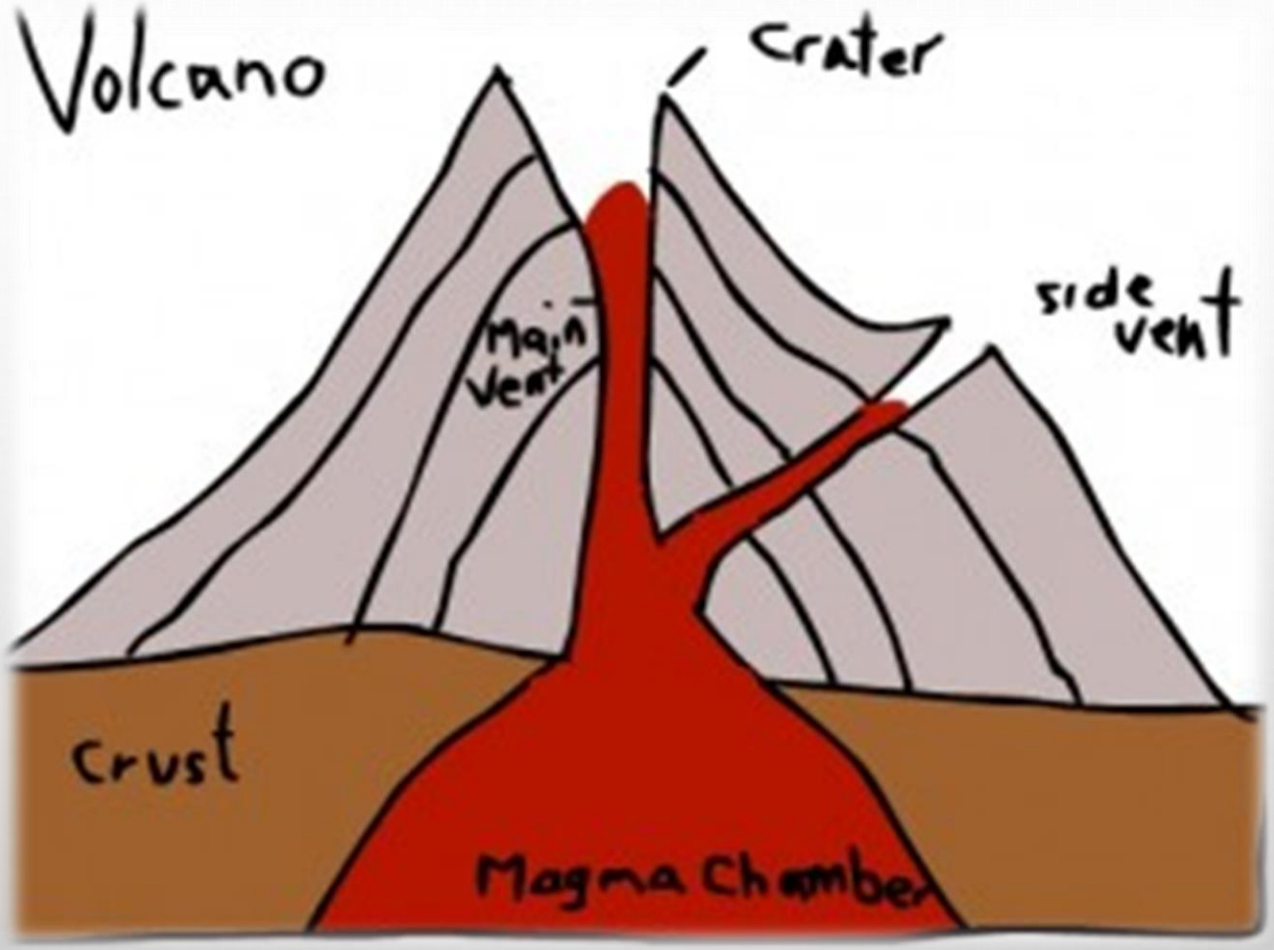
Volcano
Crater
Main Vent
side vent
Crust
Magma Chamber

~25

~17 000 sgs msg

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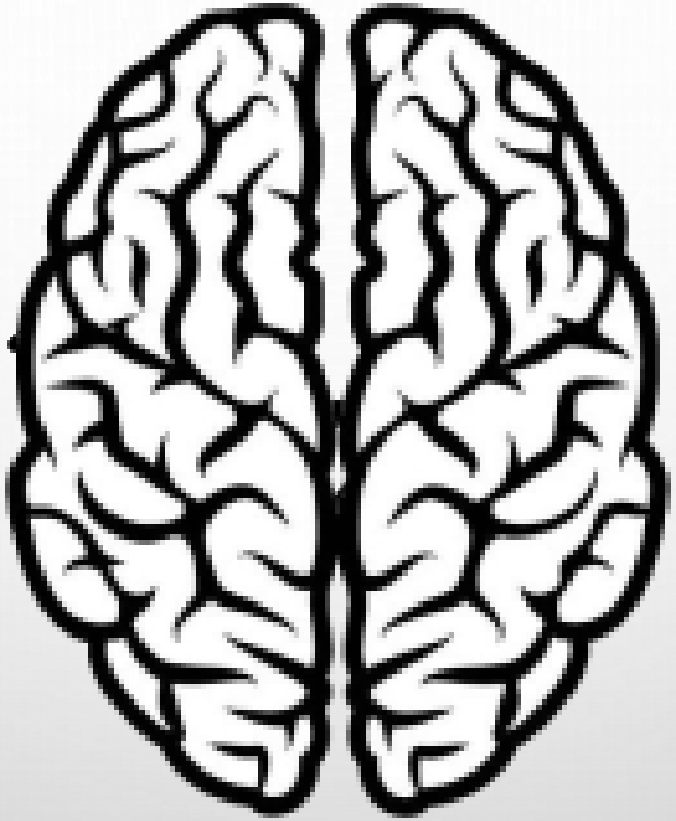
kibana



New Relic

ZABBIX
MONITORING SYSTEM

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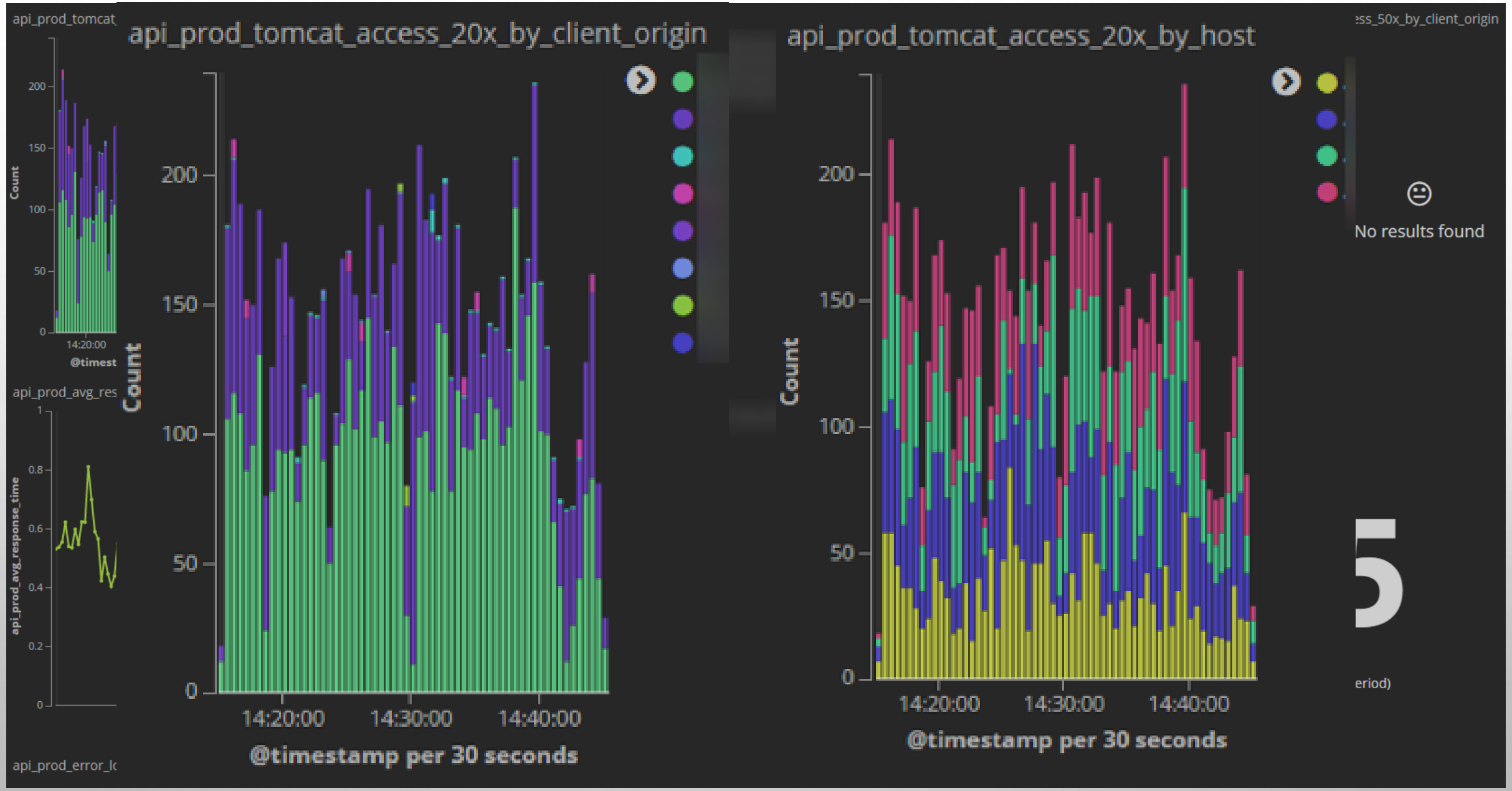

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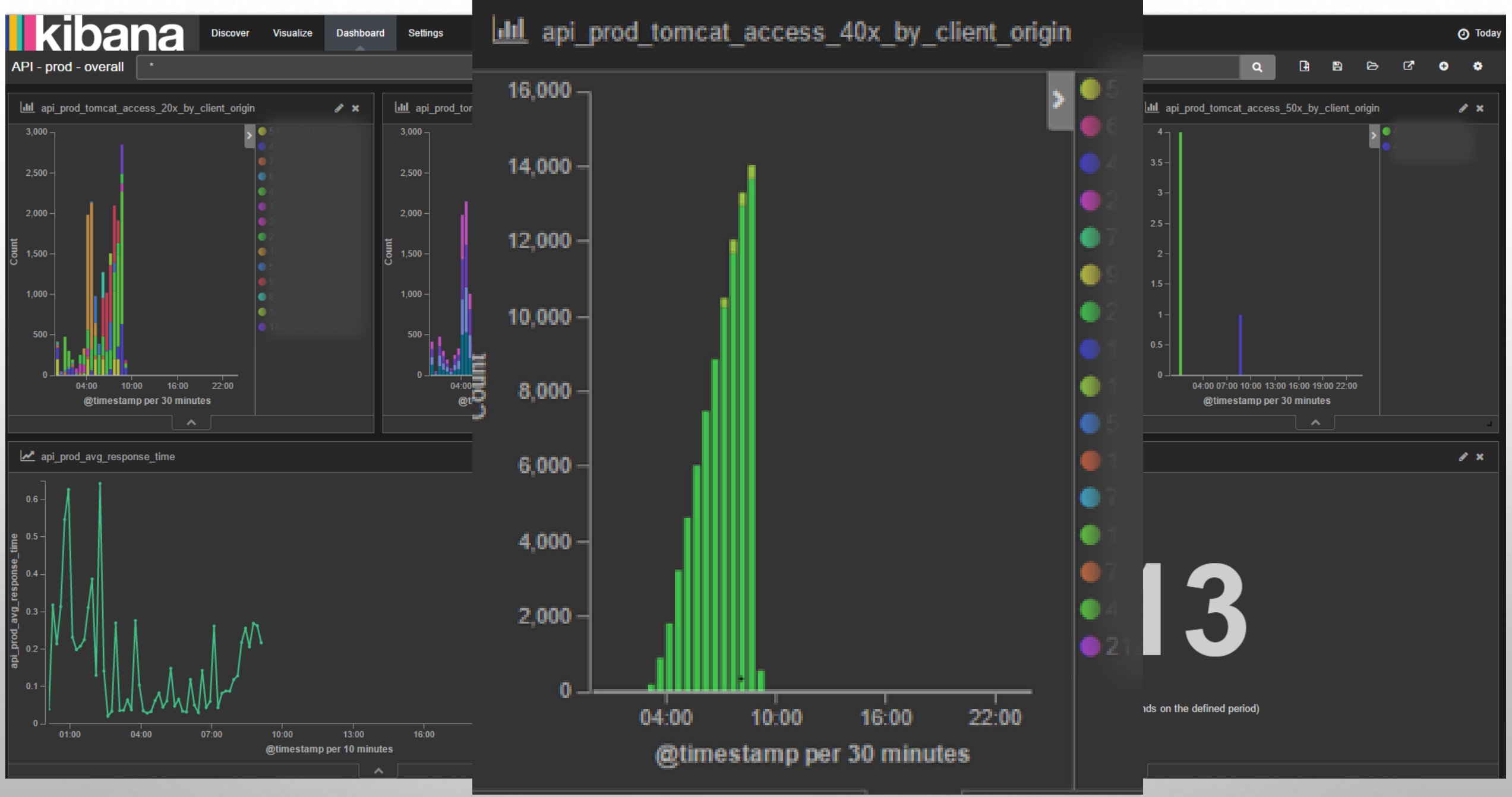

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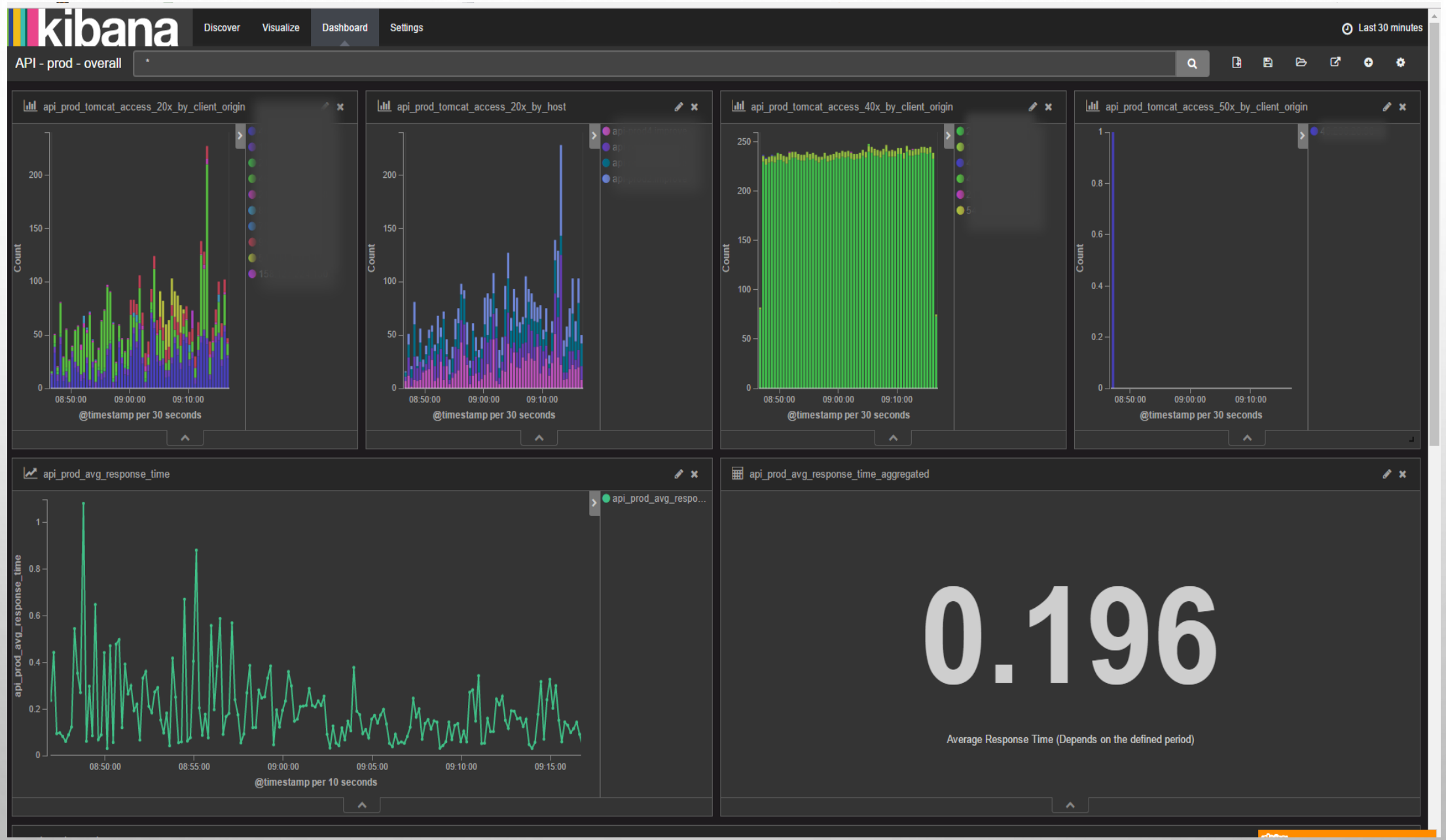

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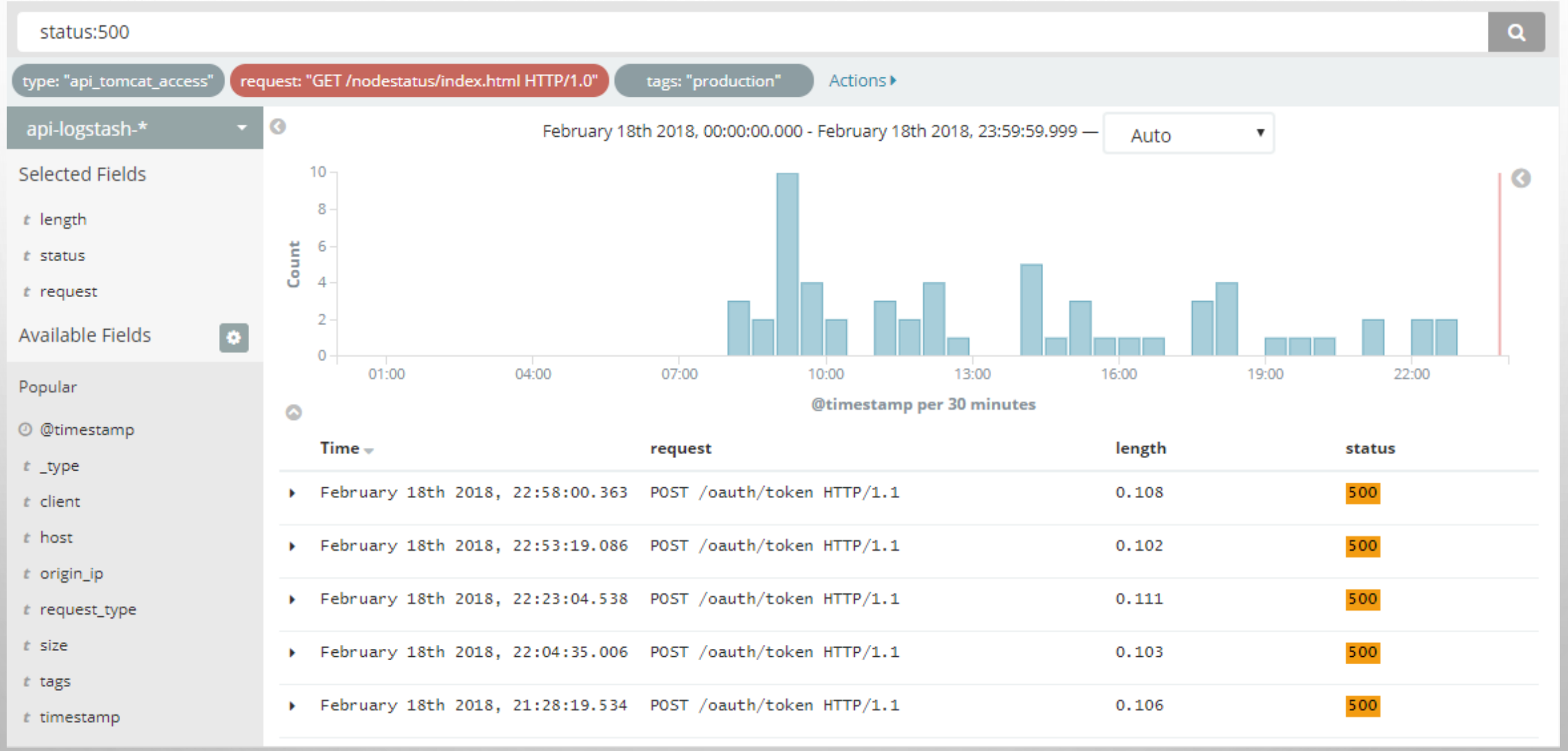
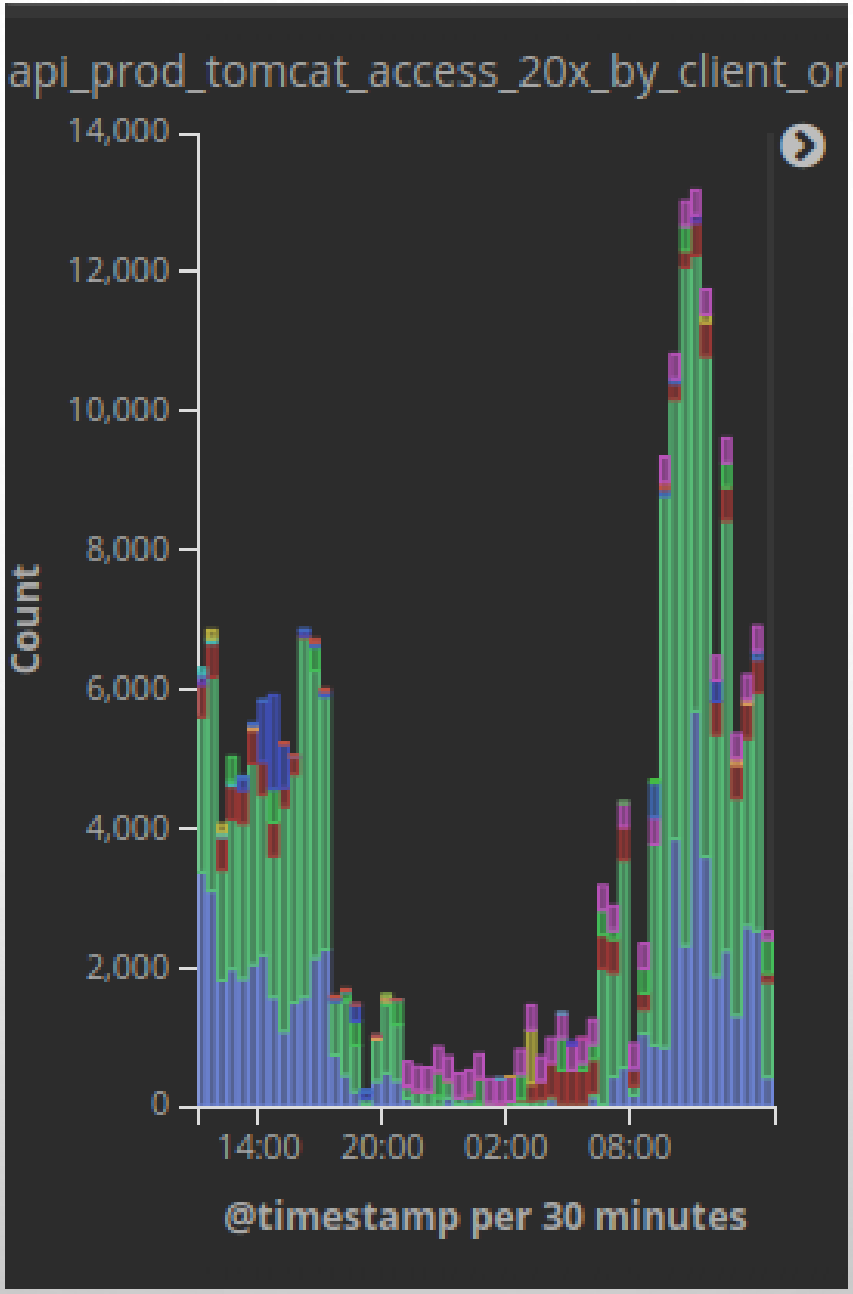
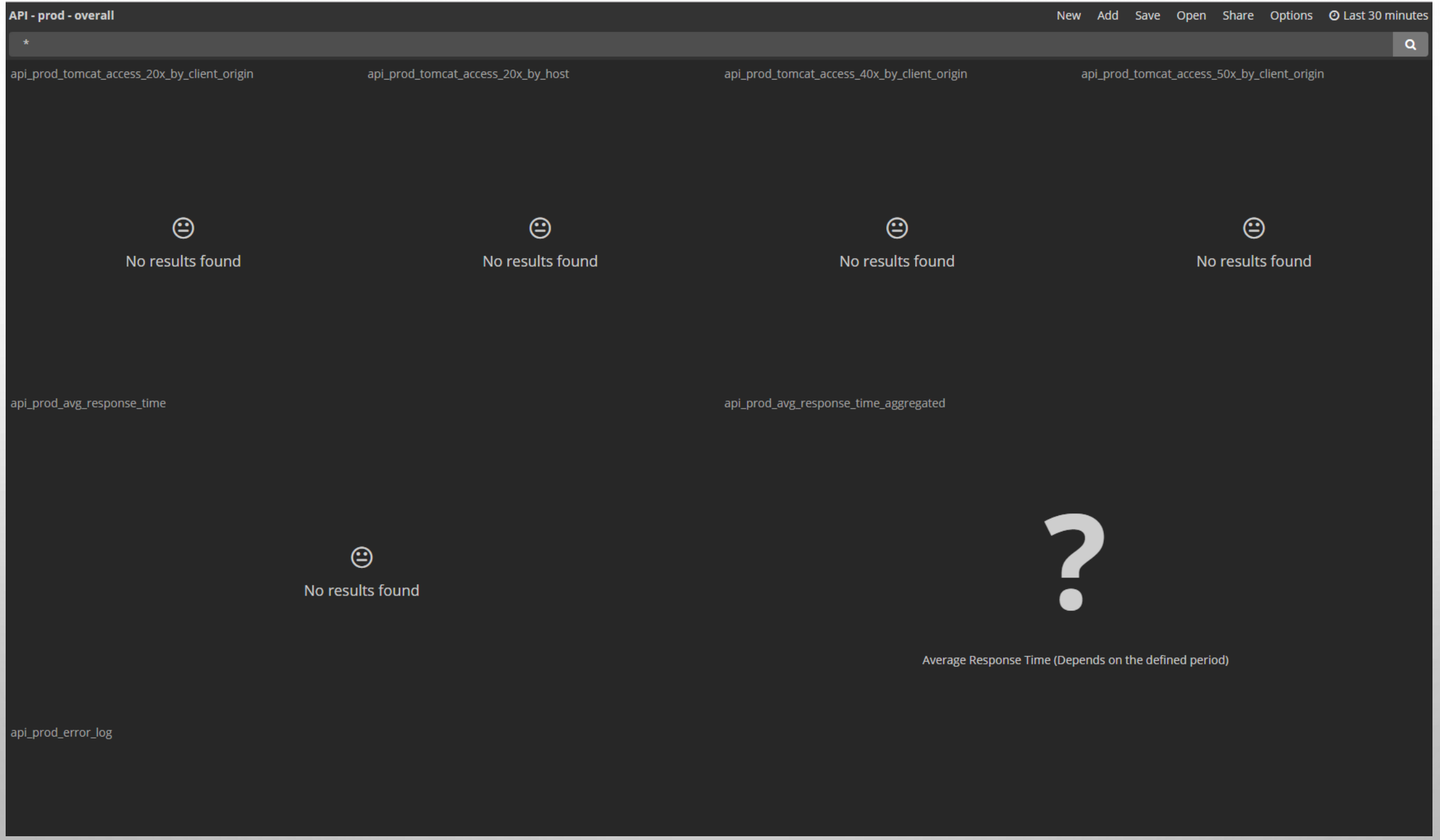
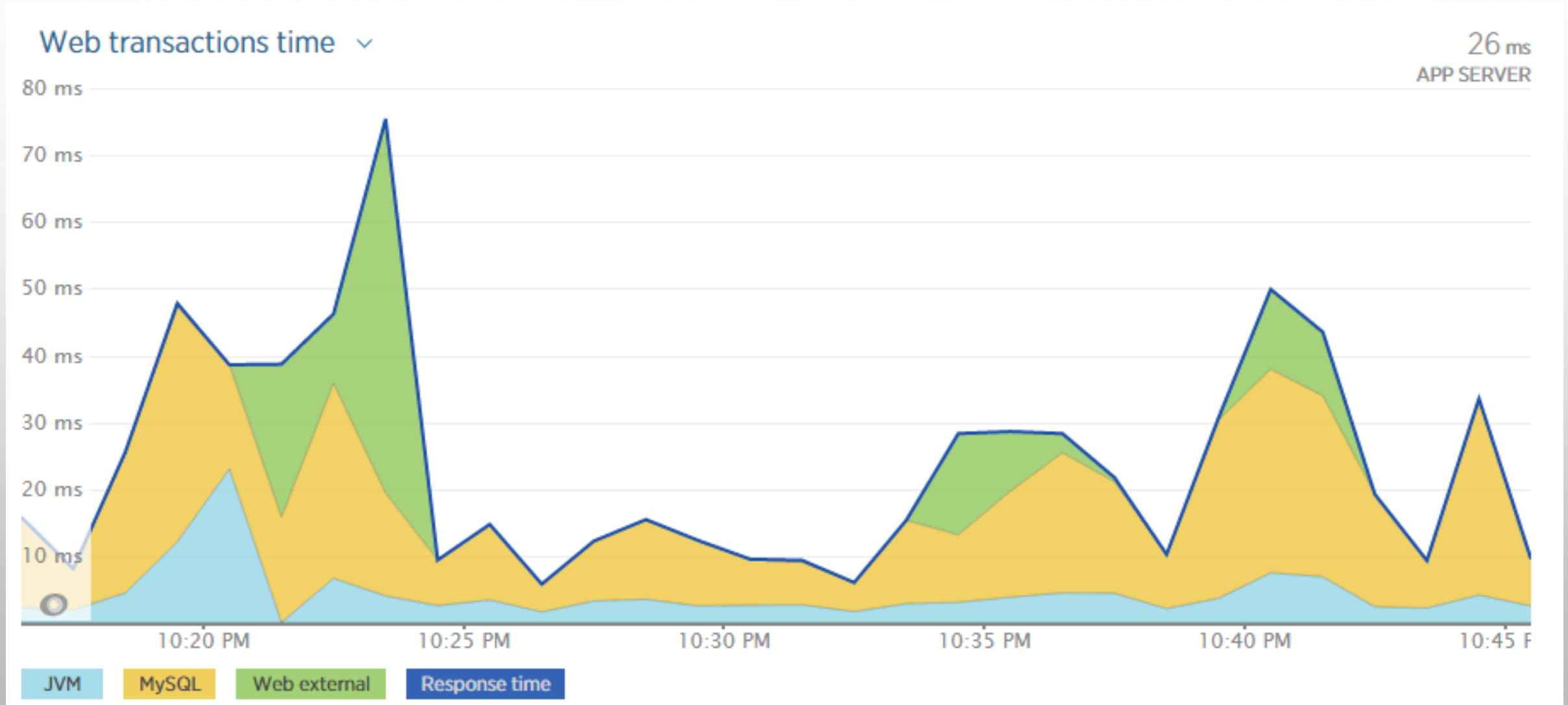
Status:500


status:500
type: "api_tomcat_access"
request: "GET /nodestatus/index.html HTTP/1.0"
tags: "production"
Actions
api-logstash-*
Selected Fields
t length
t status
t request
Available Fields
Popular
@timestamp
t _type
t client
t host
t origin_ip
t request_type
t size
t tags
t timestamp
February 18th 2018, 00:00:00.000 - February 18th 2018, 23:59:59.999 —
Auto
Count
10
8
6
4
2
0
01:00
04:00
07:00
10:00
13:00
16:00
19:00
22:00
@timestamp per 30 minutes
Time
request
length
status
February 18th 2018, 22:58:00.363 POST /oauth/token HTTP/1.1 0.108 500
February 18th 2018, 22:53:19.086 POST /oauth/token HTTP/1.1 0.102 500
February 18th 2018, 22:23:04.538 POST /oauth/token HTTP/1.1 0.111 500
February 18th 2018, 22:04:35.006 POST /oauth/token HTTP/1.1 0.103 500
February 18th 2018, 21:28:19.534 POST /oauth/token HTTP/1.1 0.106 500


api_prod_tomcat_access_20x_by_client_or
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Count
14:00
20:00
02:00
08:00
@timestamp per 30 minutes


API - prod - overall
New
Add
Save
Open
Share
Options
Last 30 minutes
*
api_prod_tomcat_access_20x_by_client_origin
No results found
api_prod_tomcat_access_20x_by_host
No results found
api_prod_tomcat_access_40x_by_client_origin
No results found
api_prod_tomcat_access_50x_by_client_origin
No results found
api_prod_avg_response_time
No results found
api_prod_avg_response_time_aggregated
Average Response Time (Depends on the defined period)
api_prod_error_log

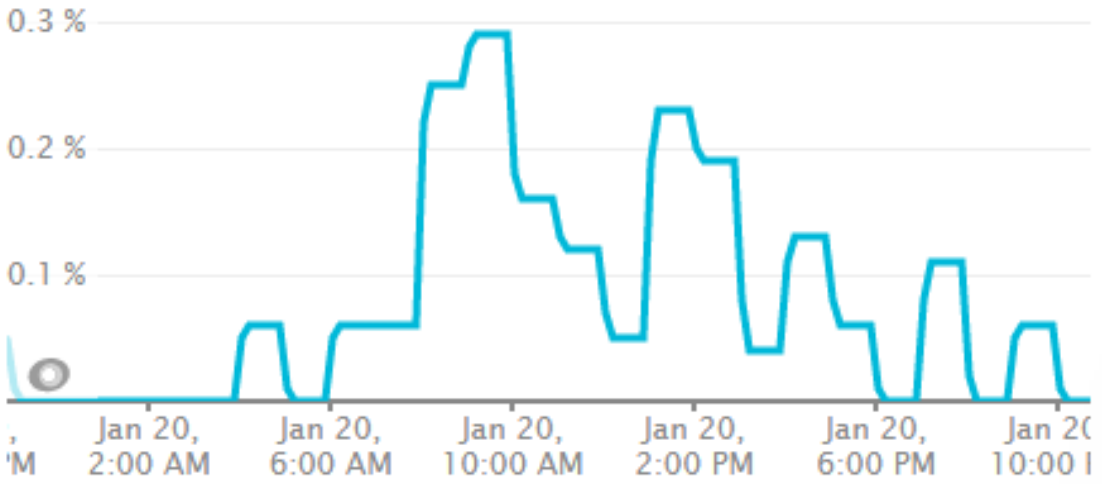

Web transactions time
26 ms
APP SERVER
80 ms
70 ms
60 ms
50 ms
40 ms
30 ms
20 ms
10 ms
10:20 PM
10:25 PM
10:30 PM
10:35 PM
10:40 PM
10:45 P
JVM
MySQL
Web external
Response time

Transactions

	App server time
/RabbitMQ/Queue/Named/readyChangeInventoryEve	9.84 sec
/RabbitMQ/Queue/Named/abstractEvent	315 ms
/dispatcherServlet	189 ms
/TokenEndpoint/postAccessToken	187 ms
/${error.path:/error} (GET)	138 ms

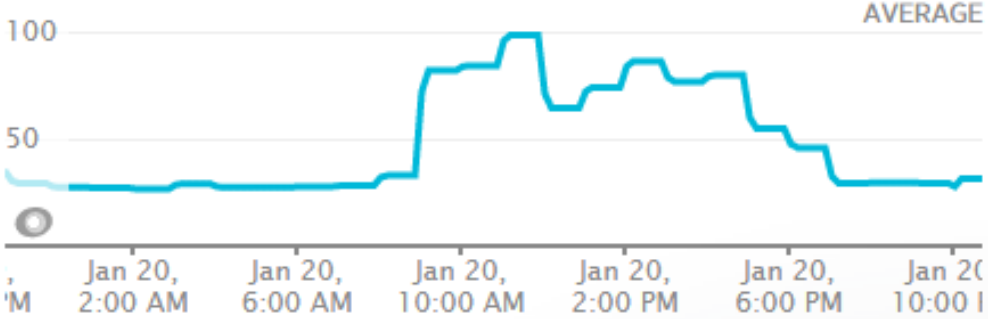
Error rate

0.10 %



Throughput

47.6 rpm
AVERAGE



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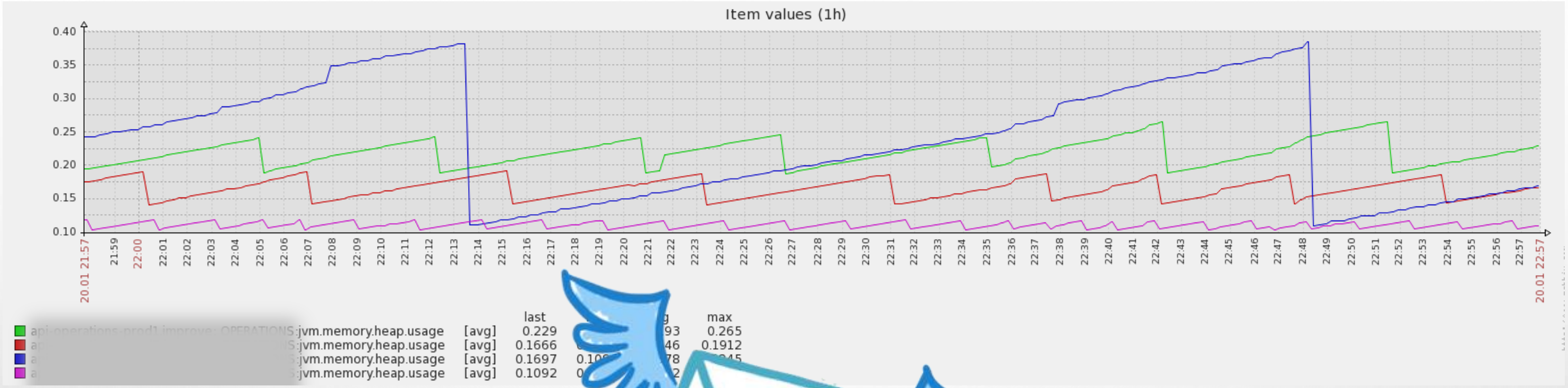

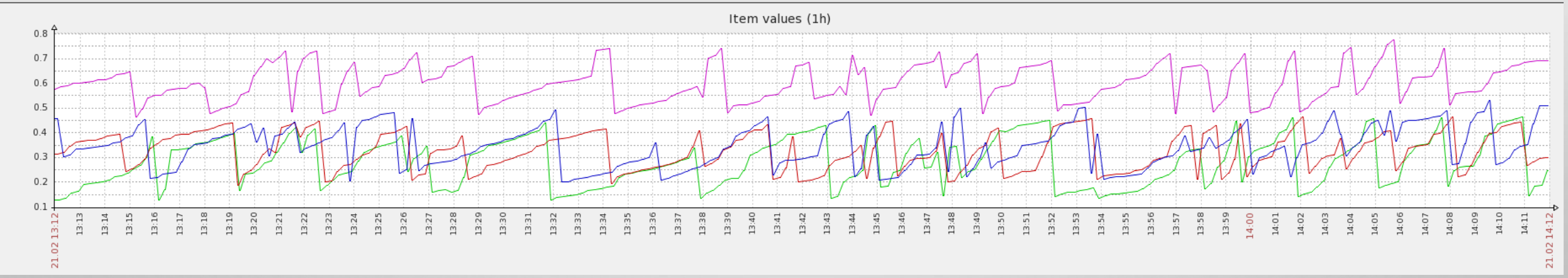

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Why should a tester monitor production?

- Learn about system behavior
- Learn about the usage of the system
- See all (potential) errors in the systems
- Prevent bugs getting to users before we fix them
- Get ideas for functional tests
- Oracles for our performance tests
- Simulate usage and see what happens
- Use it on all environments (not just prod)

Be careful

- One tool is never enough
- Be suspicions about results
- Consult with others
- Monitor tools also
- Don’t just set tools, use them also
- Educate others how to use them
- Add alerts and tune them

Thank You!

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