Challenges of Big Infra Monitoring

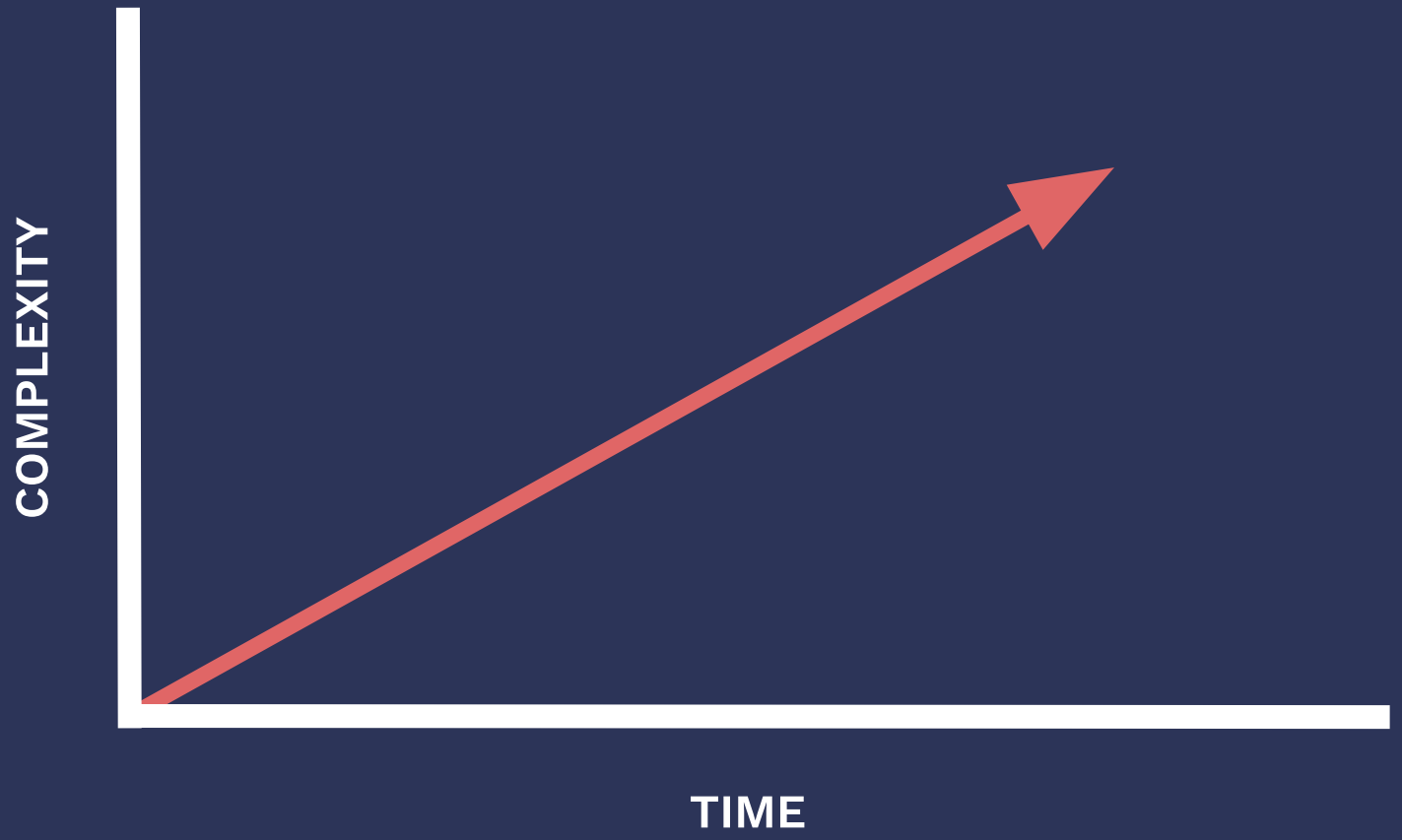
Sean Porter - CTO for Sensu

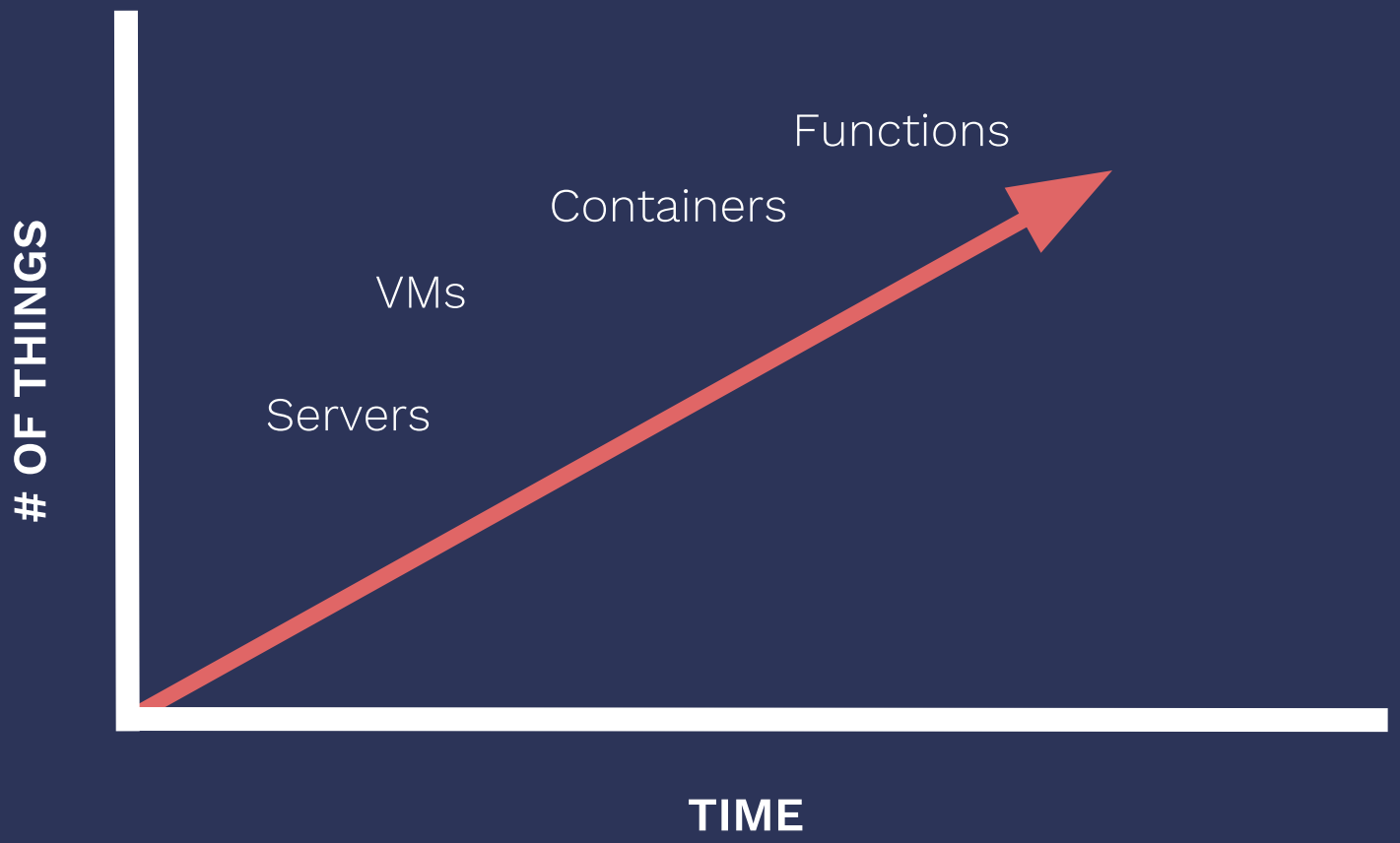
- Sean Porter
- Creator of Sensu
- Operator at heart
- @portertech

OUR REALITY

Software is complex.

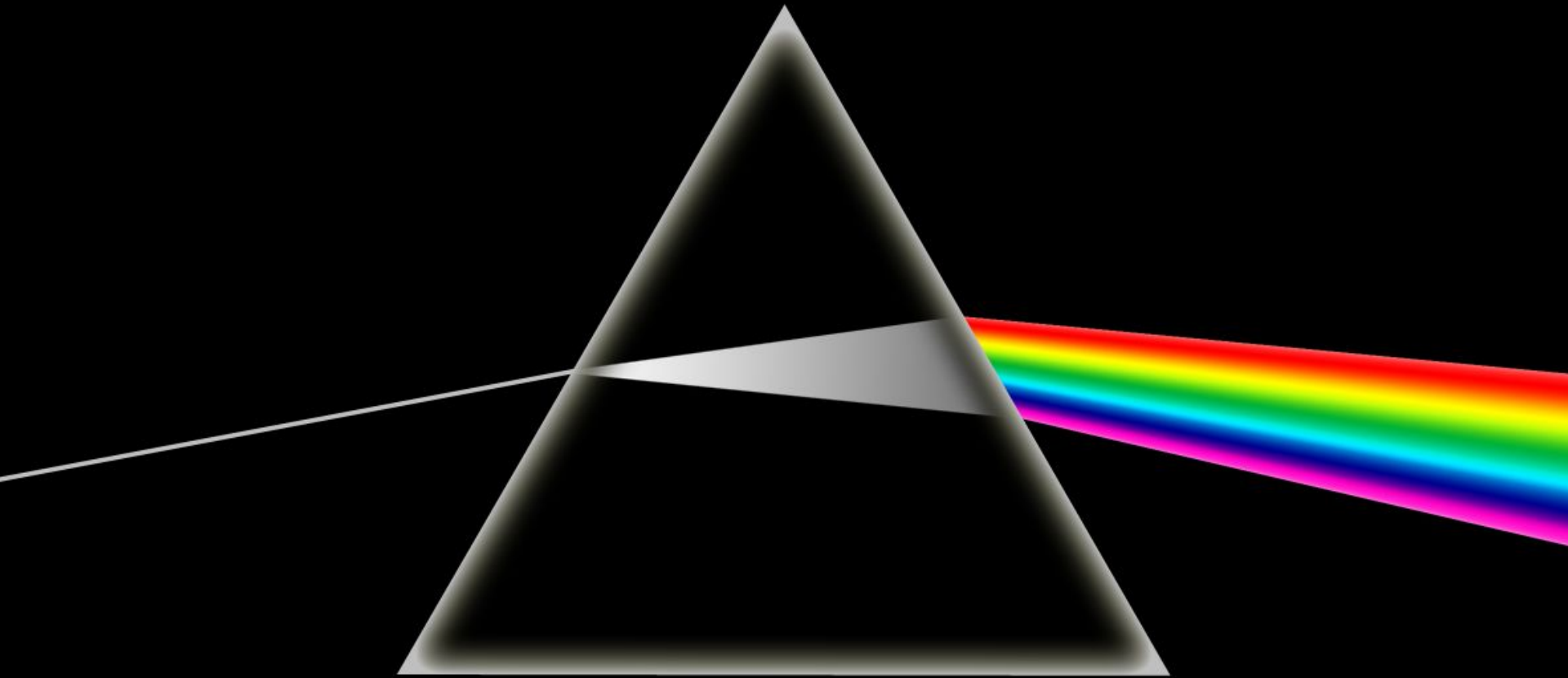
Infrastructure is complex.

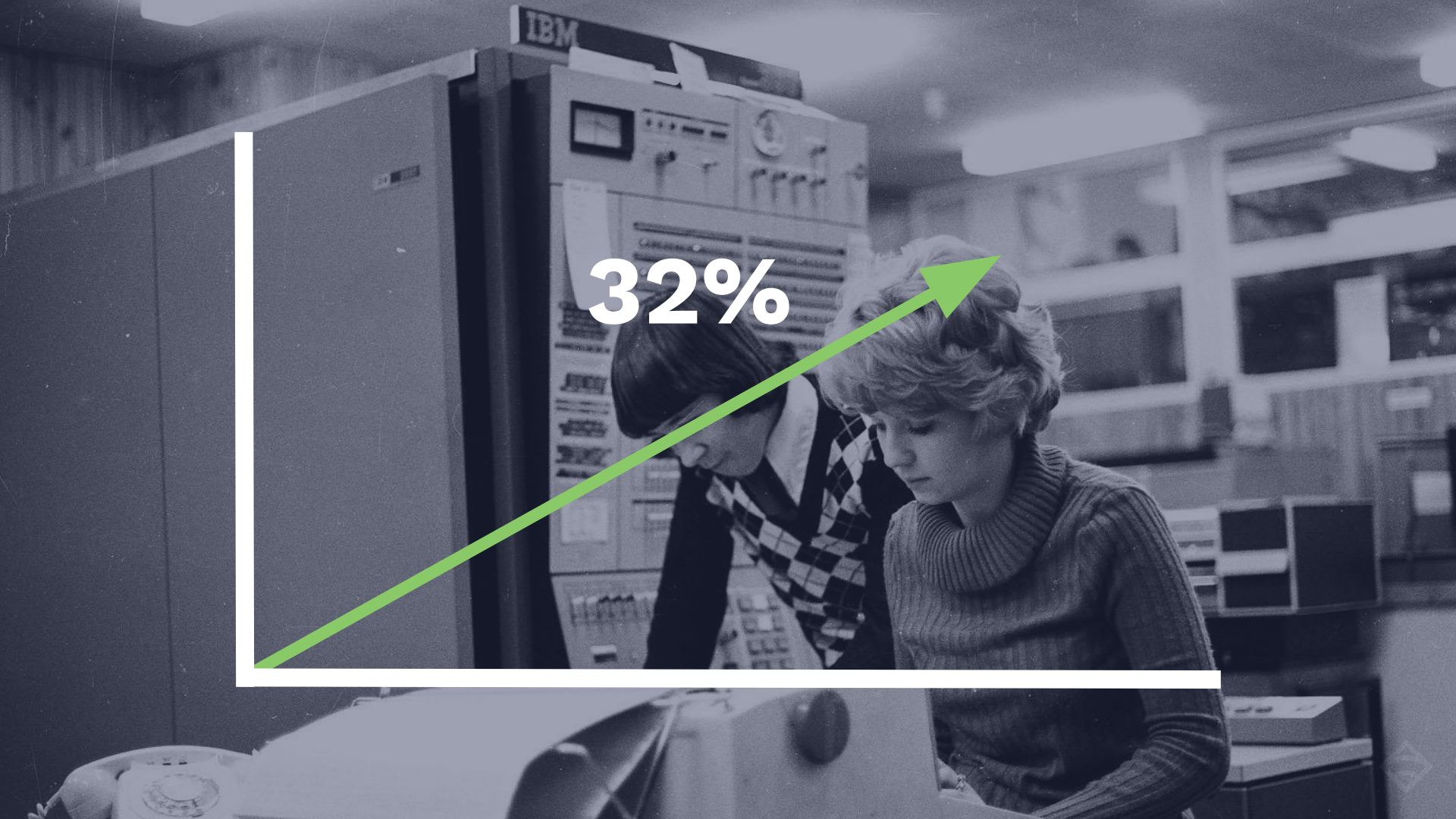

COMPLEXITY
TIME


OF THINGS
Servers
VMs
Containers
Functions
TIME

Ephemeral infrastructure is the new normal.

Multigenerational infrastructure is a thing.




IBM
32%

“BIG INFRA”

“BIG INFRA”
Nothing to see here.
Please disperse.

> 10 years

Eyes on the Skies
U.S. GAUGE
STANLEY
METRIC
DECIMALS
FRACTIONS
12FT
CHROME VANADIUM

"Eyes on the Skies"
U.S. GAUGE
STANLEY
DECIMALS
FRACTIONS
12FT
HASTA LA VISTA!
PSSU 210948 1
221
PSSU 210948 1
2261
MAX.GR.
TARE
NET
CU. CAP.
STIHL
STIHL MS 261
CHROME VANADIUM

Data Lakes

Example: Service Check

check_mysql -H localhost -P 3360

Uptime: 798 Threads: 1 Questions: 5 Slow queries: 0 Opens: 107 Flush tables: 1 Open tables: 26 Queries per second avg: 0.006|Connections=9c;;; Open_files=6;;; Open_tables=27;;; Qcache_free_memory=16760152;;; Qcache_hits=0c;;; Qcache_inserts=0c;;; Qcache_lowmem_prunes=0c;;; Qcache_not_cached=1c;;; Qcache_queries_in_cache=0;;; Queries=6c;;; Questions=4c;;; Table_locks_waited=0c;;; Threads_connected=1;;; Threads_running=1;;; Uptime=798c;;;

Exit 0 (OK)

check_mysql -H localhost -P 3360

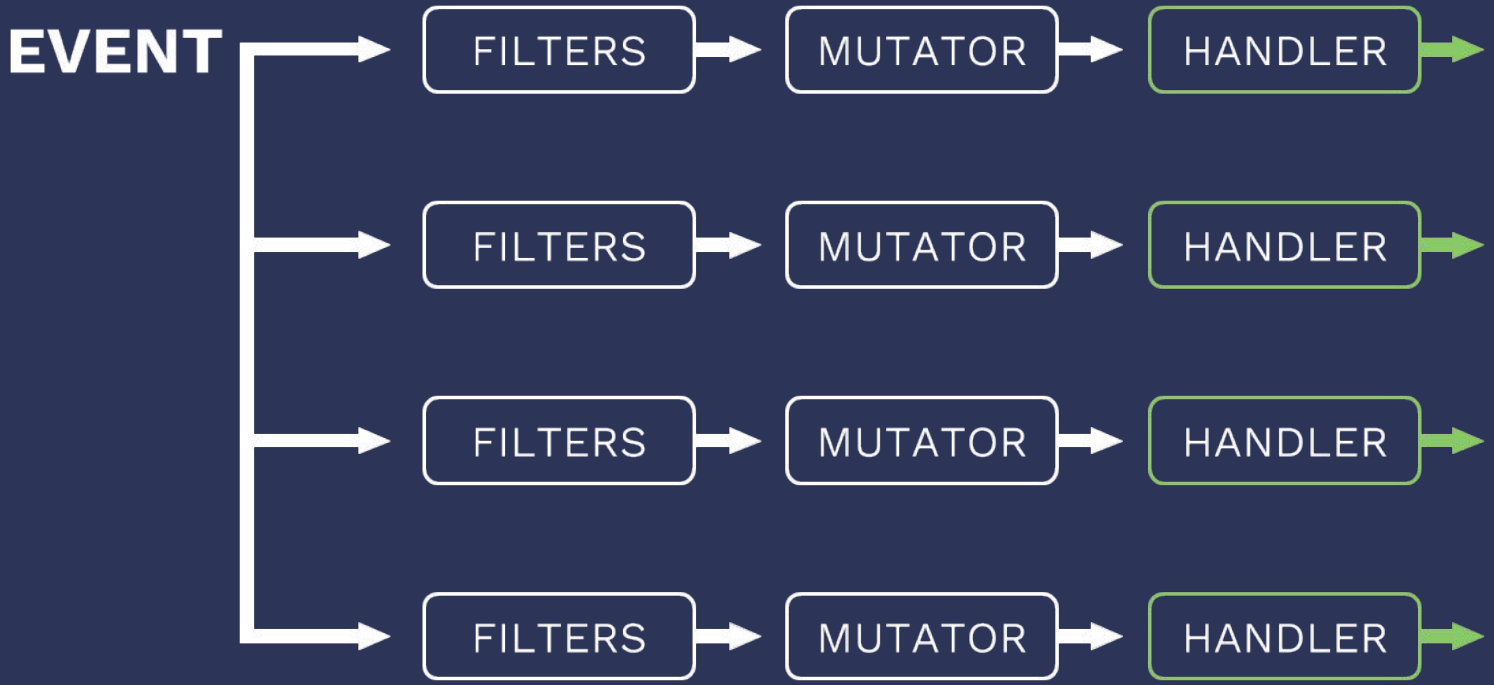
Can't connect to MySQL server on 'localhost'

Exit 2 (CRITICAL)

check_mysql -H localhost -P 3360

Uptime: 798 Threads: 1 Questions: 5 Slow queries: 0 Opens: 107 Flush tables: 1 Open tables: 26 Queries per second avg: 0.006|**Connections=9c;;; Open_files=6;;; Open_tables=27;;; Qcache_free_memory=16760152;;; Qcache_hits=0c;;; Qcache_inserts=0c;;; Qcache_lowmem_prunes=0c;;; Qcache_not_cached=1c;;; Qcache_queries_in_cache=0;;; Queries=6c;;; Questions=4c;;; Table_locks_waited=0c;;; Threads_connected=1;;; Threads_running=1;;; Uptime=798c;;;**

Exit 0 (OK)


EVENT
FILTERS
MUTATOR
HANDLER
FILTERS
MUTATOR
HANDLER
FILTERS
MUTATOR
HANDLER
FILTERS
MUTATOR
HANDLER

Visualization

Thank You

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