

Challenges of Big Infra **Monitoring**

Sean Porter - CTO for Sensu





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



A person is shown from the chest up, wearing a black VR headset and holding two black VR controllers. They have a wide-eyed, open-mouthed expression, suggesting immersion or surprise. The background is a plain, light gray. The text "OUR REALITY" is overlaid in the center, with "OUR" in white and "REALITY" in a bright green color. The person is wearing a dark gray sweater and has several bracelets on their wrists.

OUR REALITY



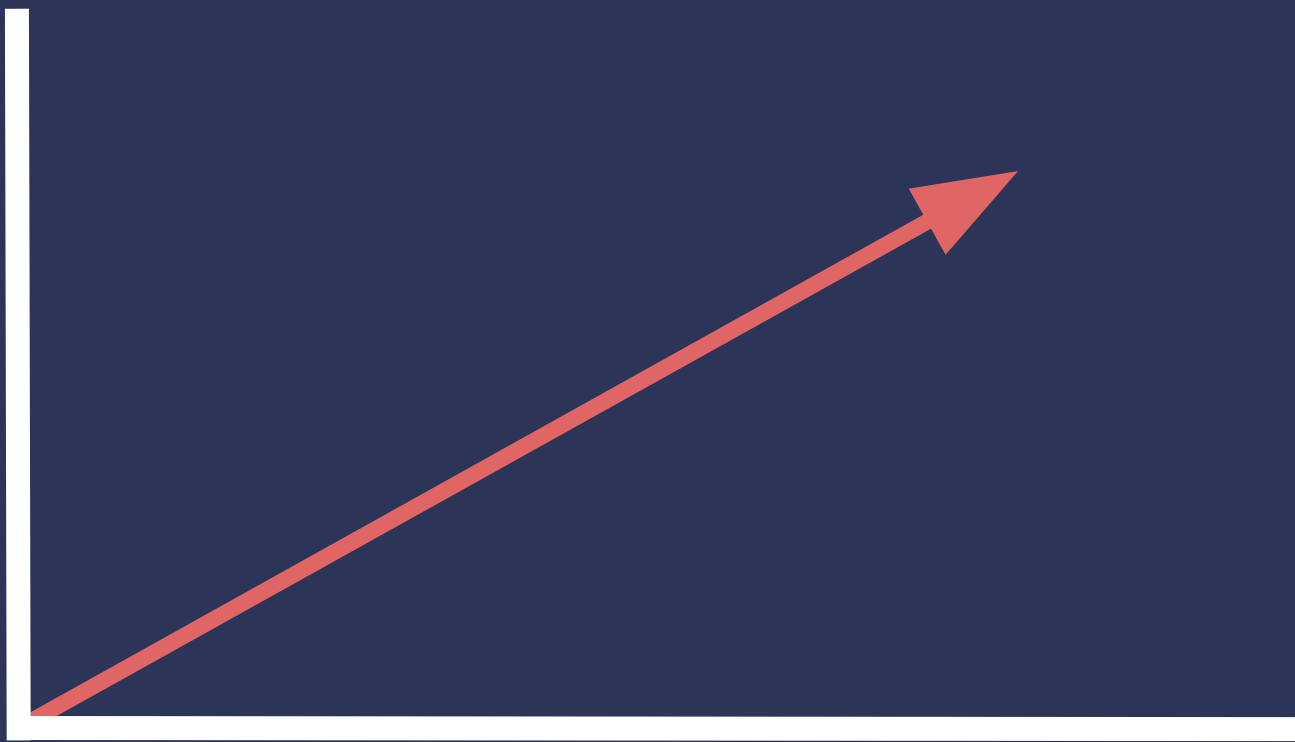
Software is complex.



Infrastructure is complex.



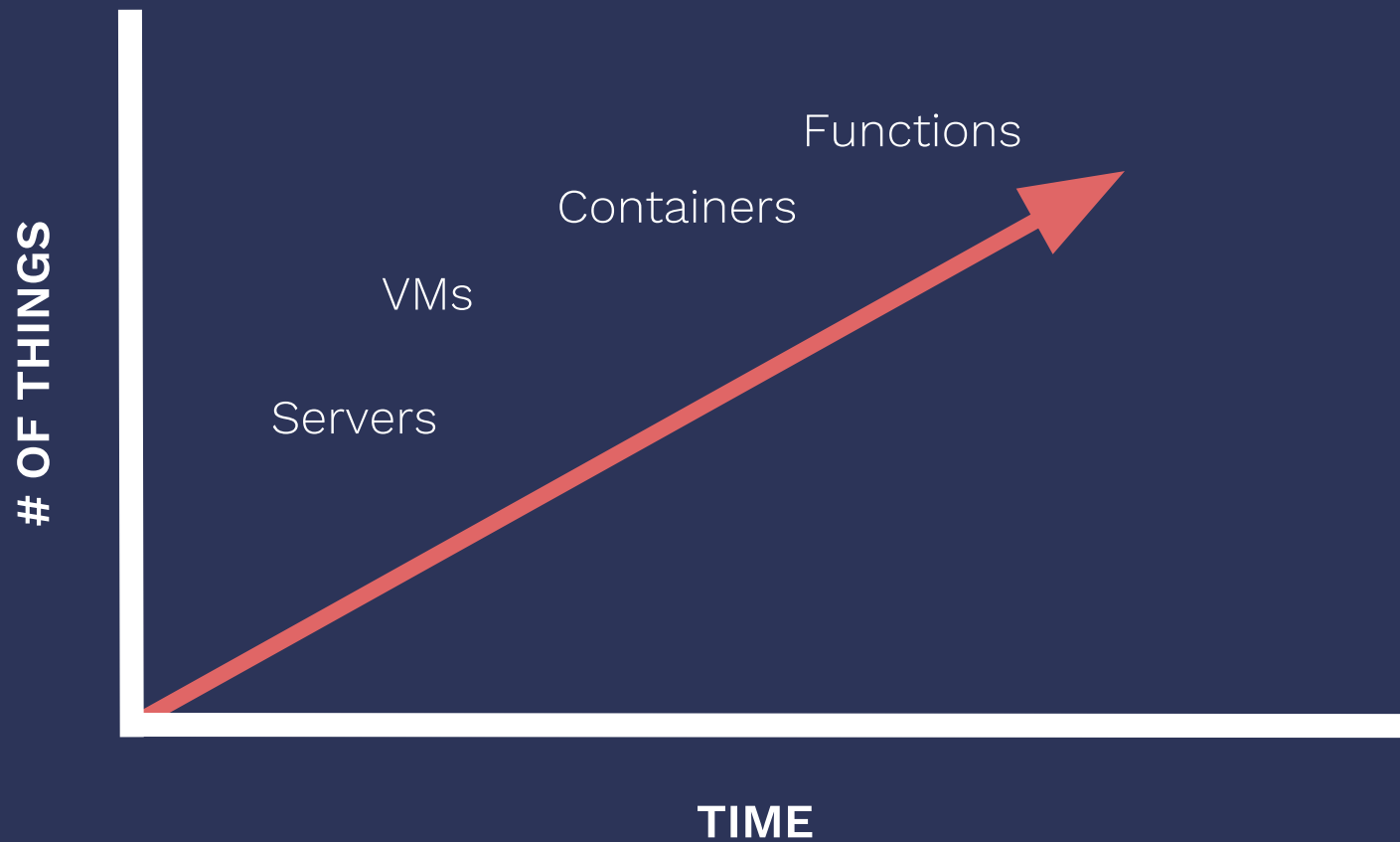
COMPLEXITY



TIME







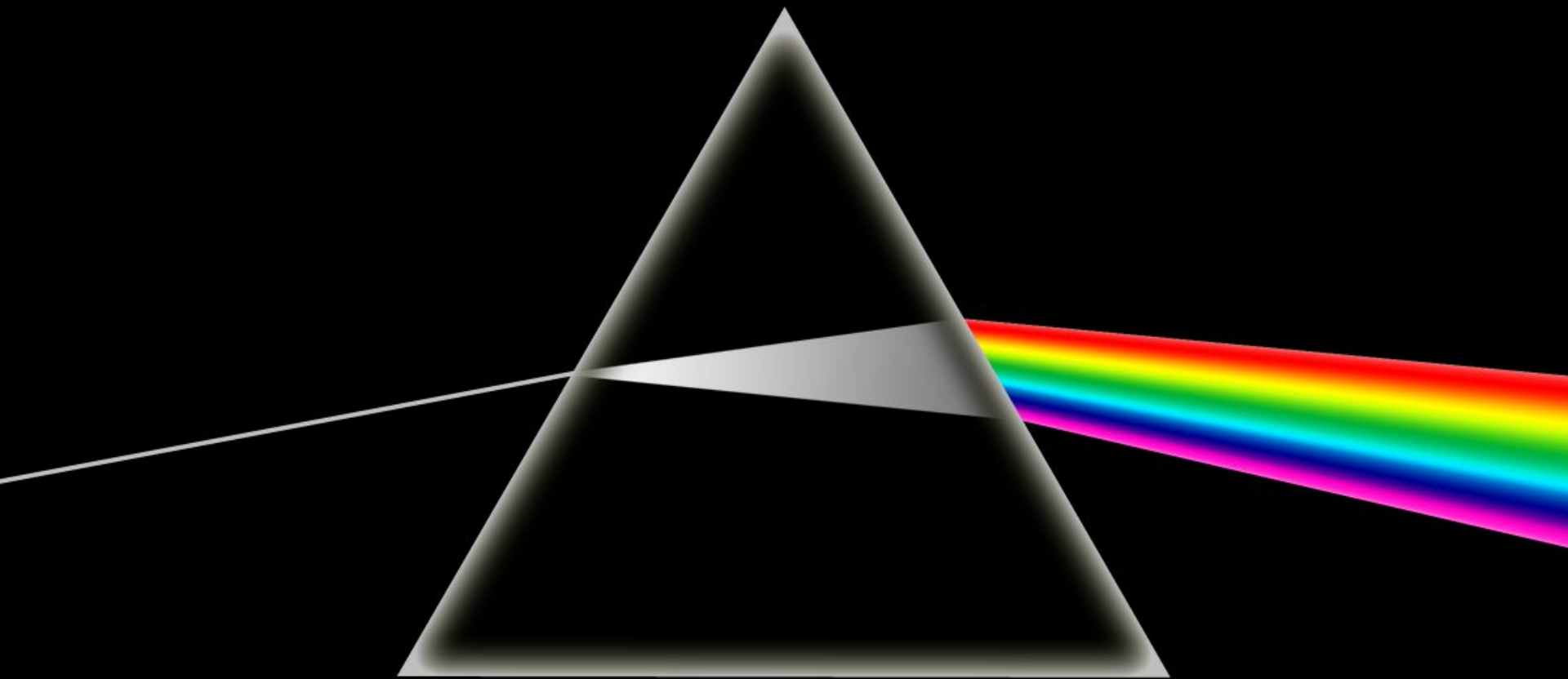
**Ephemeral infrastructure
is the new normal.**





**Multigenerational
infrastructure is a thing.**







32%







A photograph of a server rack with multiple server units. The image is heavily overlaid with a blue color filter. Numerous blue network cables are plugged into the front of the server units and are bundled together with white zip ties. The text "BIG INFRA" is centered in the image in a large, white, bold, sans-serif font, enclosed in quotation marks.

“BIG INFRA”

A man in a grey suit and red tie stands in the foreground, looking up with his hands raised in a gesture of surprise or alarm. Behind him, a city street is in chaos. A large explosion is occurring, with bright orange and yellow flames and a shower of sparks and debris falling from the sky. In the background, several buildings are visible, some of which appear to be damaged or partially destroyed. A person in dark clothing is seen running away from the viewer in the distance. The overall atmosphere is one of a major disaster or attack.

“BIG INFRA”

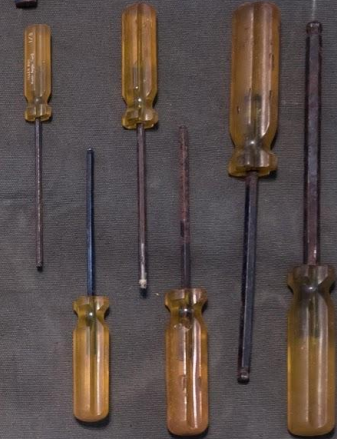
**Nothing to see here.
Please disperse.**



> 10 years









MAX. GR.	35,000	KG
TARE	67,200	LEB
NET	2,200	KG
CU. CAP.	4,650	LEB
	28,200	KG
	62,350	LEB
	39.2	CU. M
	1.78	CU. YD

PSSU 210948
221

PSSU 210948
2261

1 1/2" (38.1mm)

2" (50.8mm)

3" (76.2mm) CHROME VANADIUM

N

A scenic view of a turquoise lake surrounded by dark, forested mountains with snow-capped peaks. The text "Data Lakes" is overlaid in white.

Data Lakes



A stethoscope is positioned over a blue-tinted ECG (heart rate) graph. The stethoscope's chest piece is prominent in the foreground, and its tubing extends towards the top left. The ECG line shows a regular rhythm with distinct peaks and troughs. The overall image has a professional, medical aesthetic.

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'

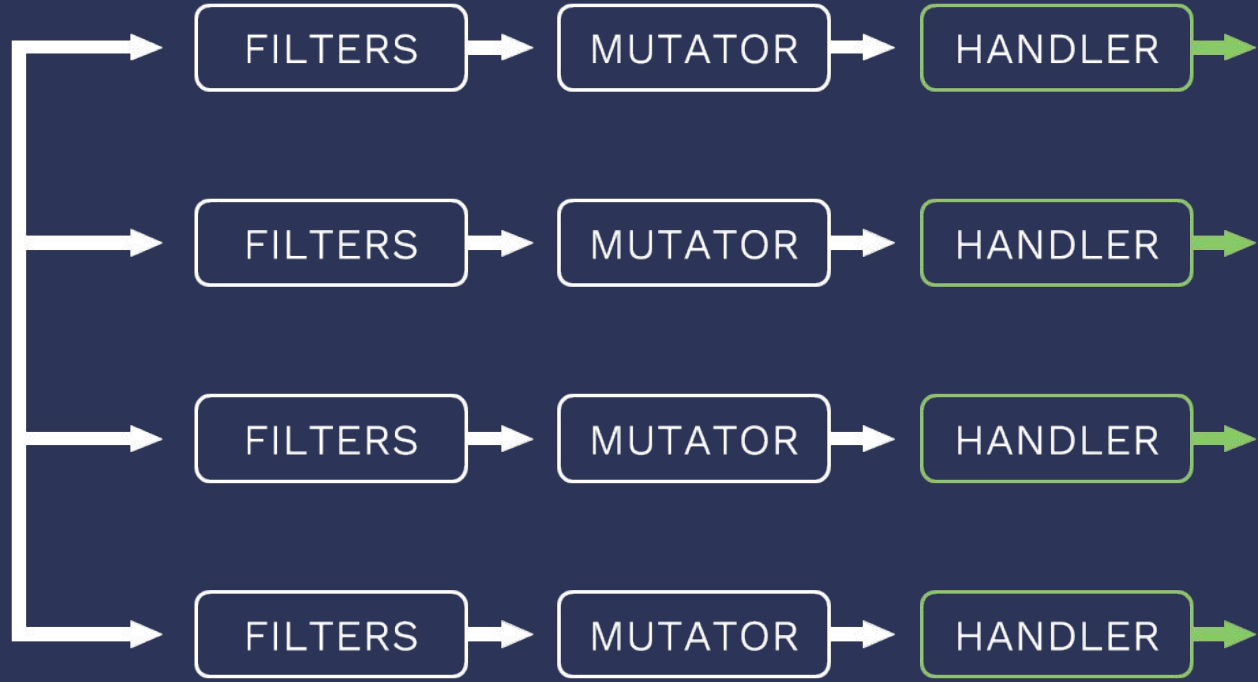
Exit 2 (CRITICAL)

check_mysql -H localhost -P 3360

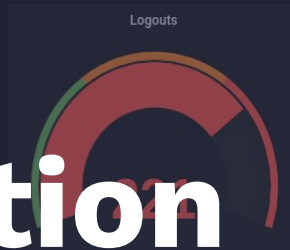
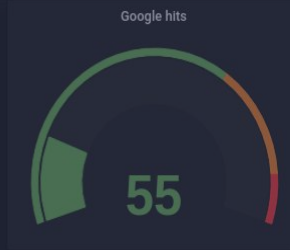
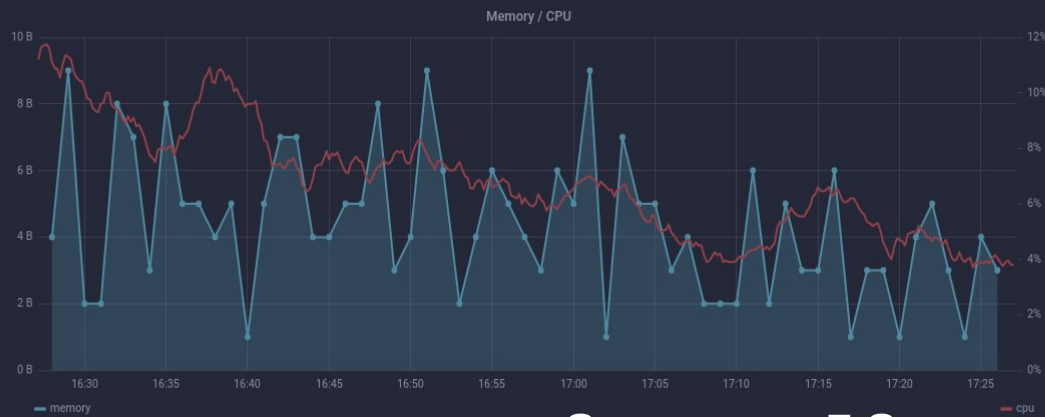
Uptime: 798 Threads: 1 Questions: 5 Slow queries: 0
Opens: 107 Flush tables: 1 Open tables: 26 Queries per
second avg: 0.006|**Connections=9c;;; Open_files=6;;;
Open_tables=27;;; Qcache_free_memory=16760152;;;
Qcache_hits=0c;;; Qcache_inserts=0c;;;
Qcache_lowmem_prunes=0c;;; Qcache_not_cached=1c;;;
Qcache_queries_in_cache=0;;;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

Exit 0 (OK)

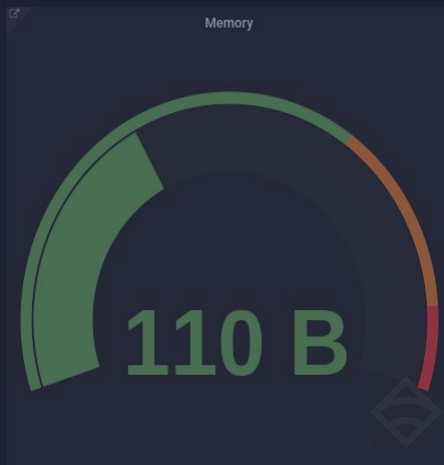
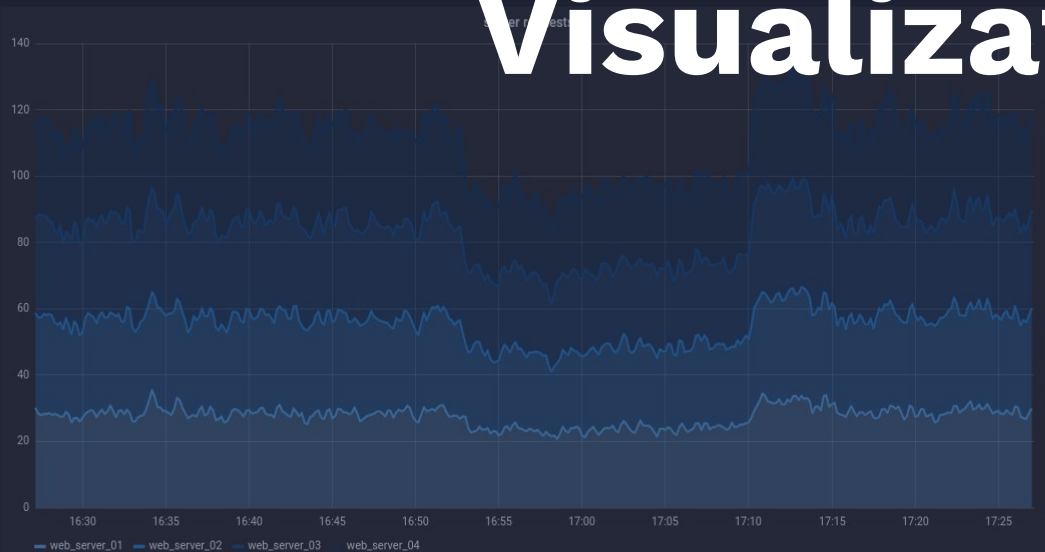
EVENT







Visualization





Thank You

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CTO for Sensu

