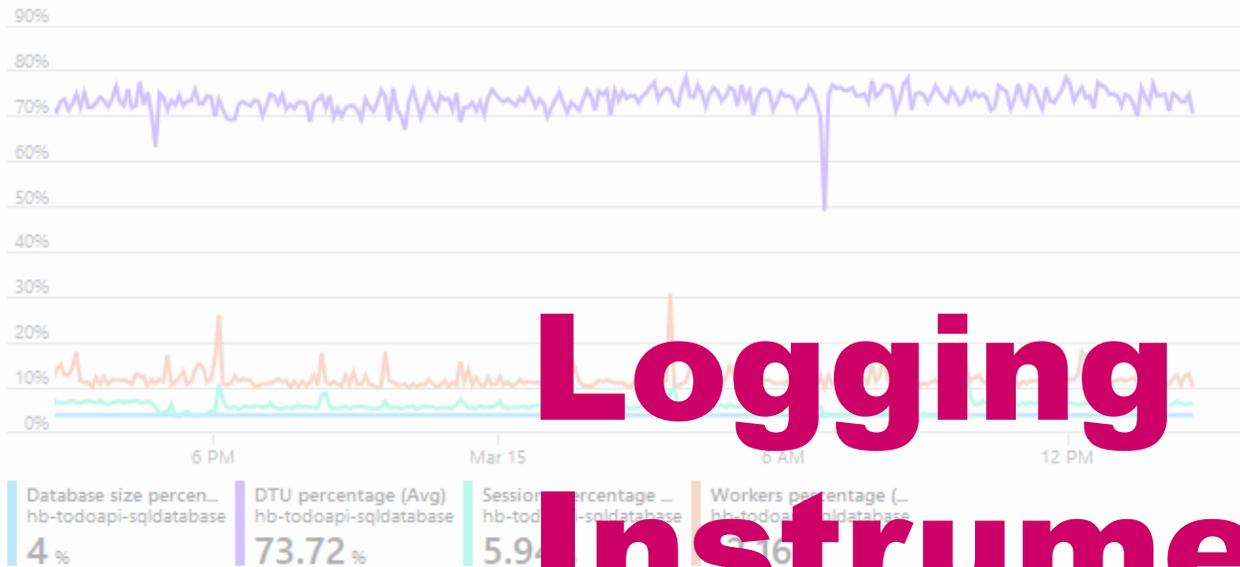
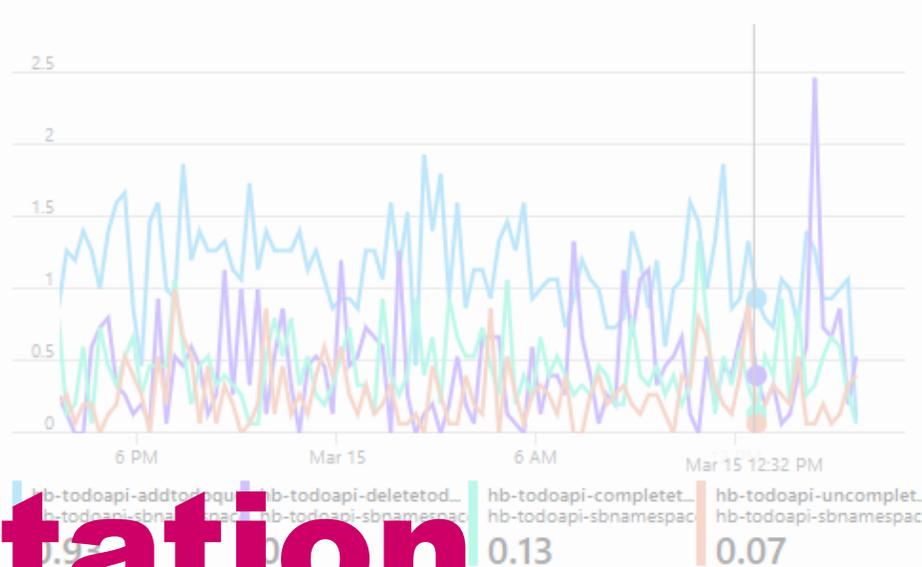


Max Database size percentage, Avg DTU percentage, and 2 other metrics (percentage) - 24 hours



Active queue messages (Count) - 24 hours



Logging Instrumentation

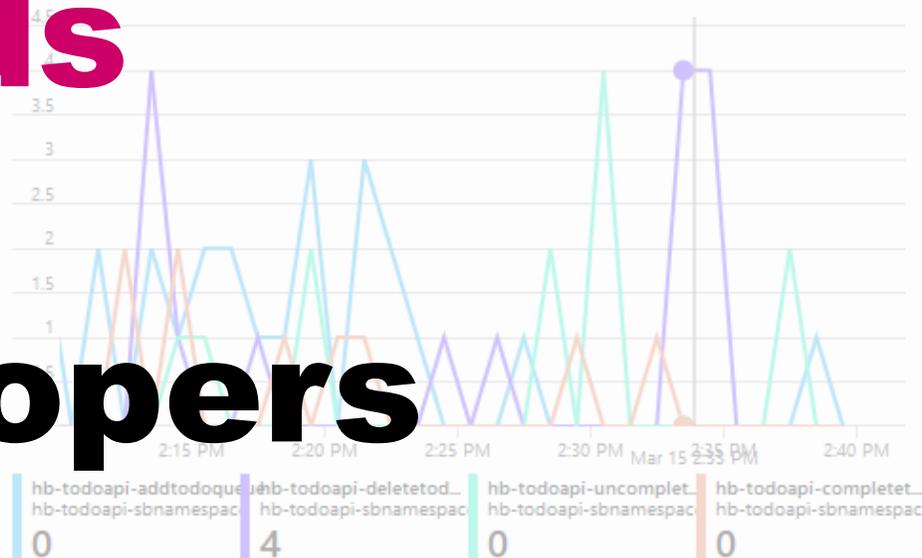
Dashboards

Alerts - for developers

Max Database size percentage, Avg DTU percentage, and 2 other metrics (percentage) - 30 minutes



Active queue messages (Count) - 24 hours30 minutes



WONDERING **WHO** IS THAT GUY?



HENRY BEEN

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LOGGING, INSTRUMENTATION, DASHBOARDS & ALERTS

Very boring part

Amazing part

Pretty boring part

Really amazing part

Maybe boring part

Mindblowing part

LOGGING, INSTRUMENTATION, DASHBOARDS, ALERTS

A bit of monitoring theory

What to monitor

Demo's!

MONITORING

-or-

KNOWING WHAT BE HAPPENING

MONITORING

Instrumentation

Most often forgotten

Concerned with metrics

- (Timestamp, value) tuples
- Events & values
- Dimensions
- Used for Dashboards & Alerts

Rolled up over time

Tracing

Used for troubleshooting

What we developers call logging

- When
- Code location
- Very, very verbose message
- Can a source of metrics

Retained for a limited time

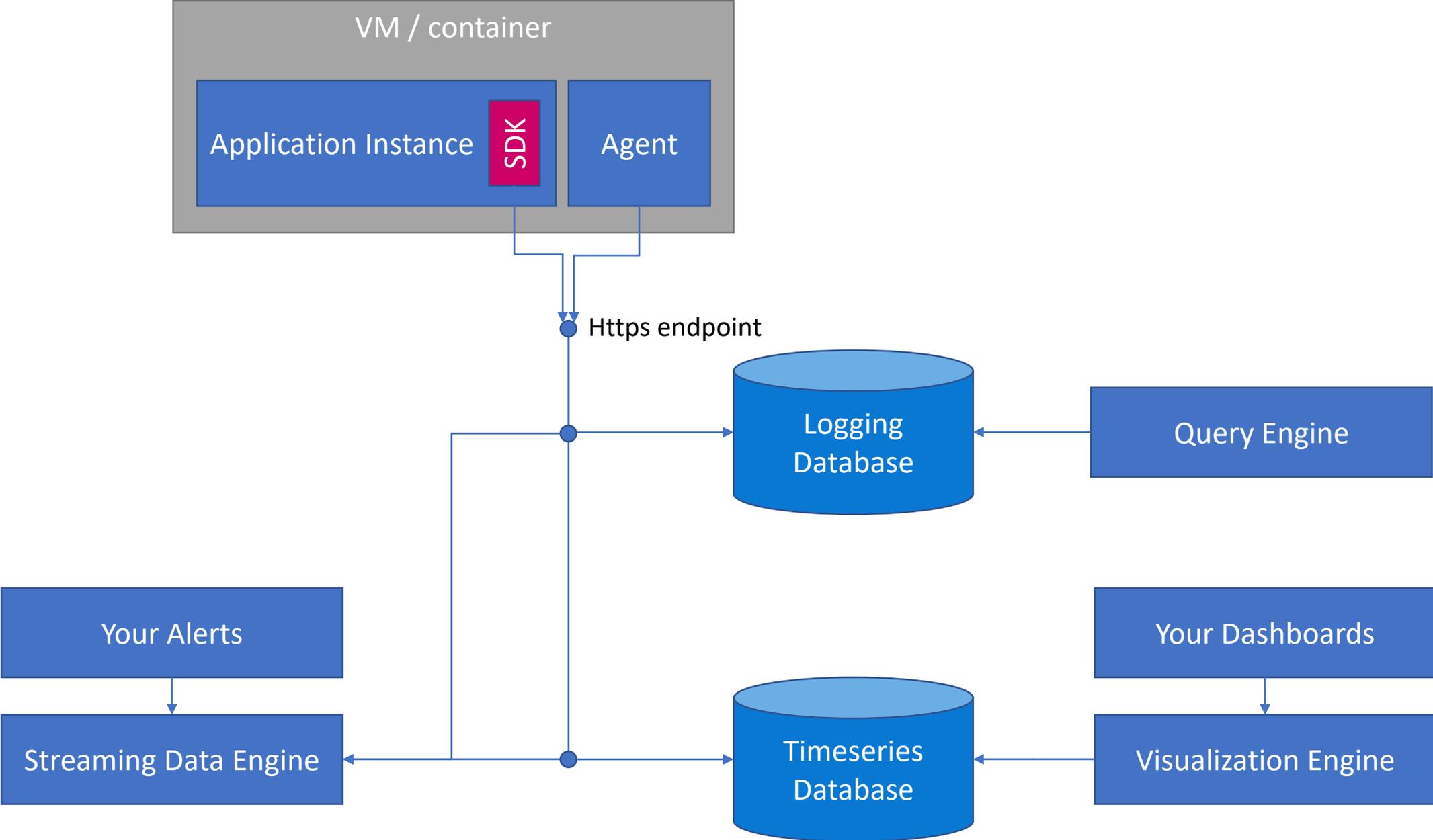
Logging

Often combined with tracing

Concerned with state changes

- When
- By who
- What changed
- Can a source of metrics

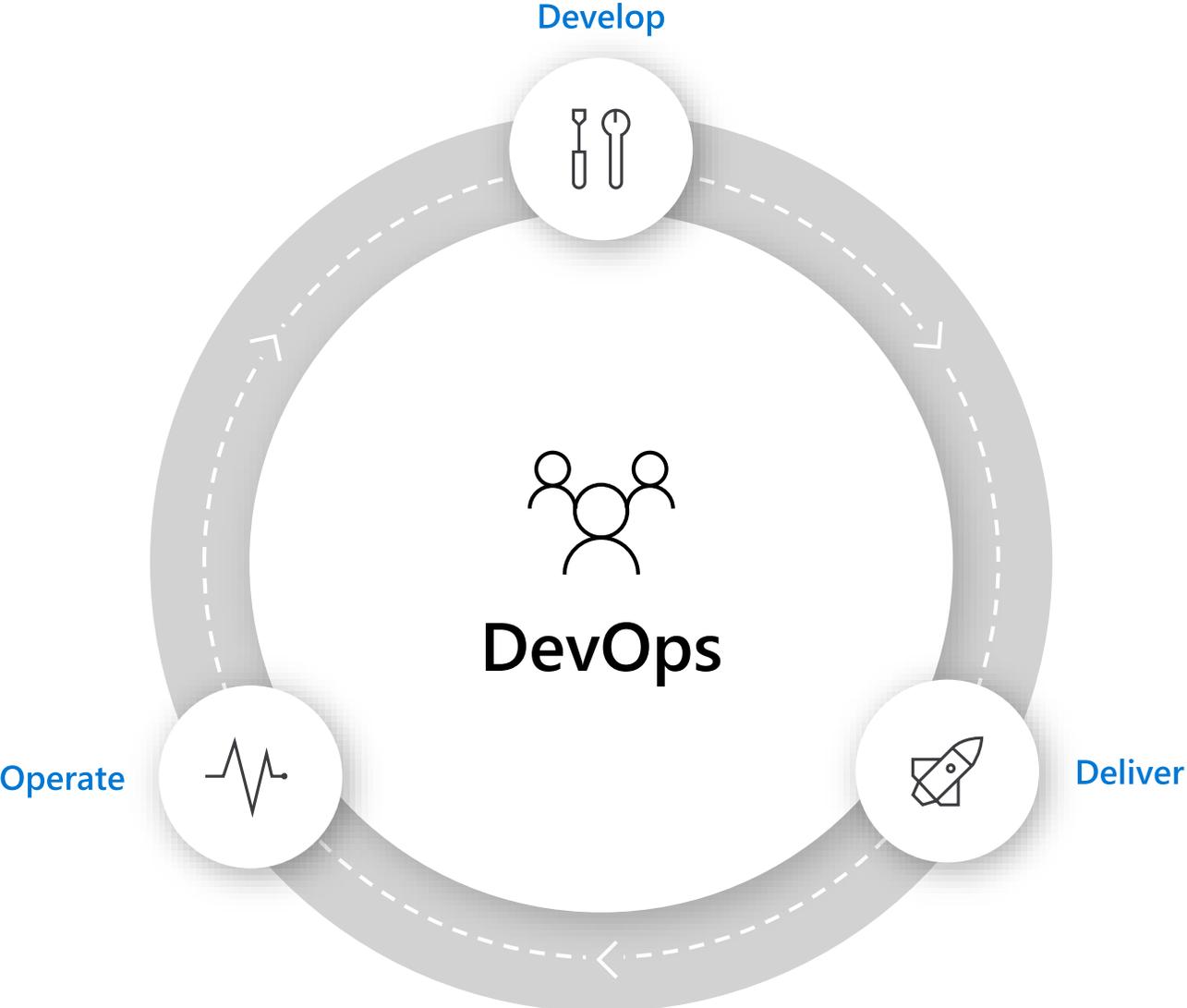
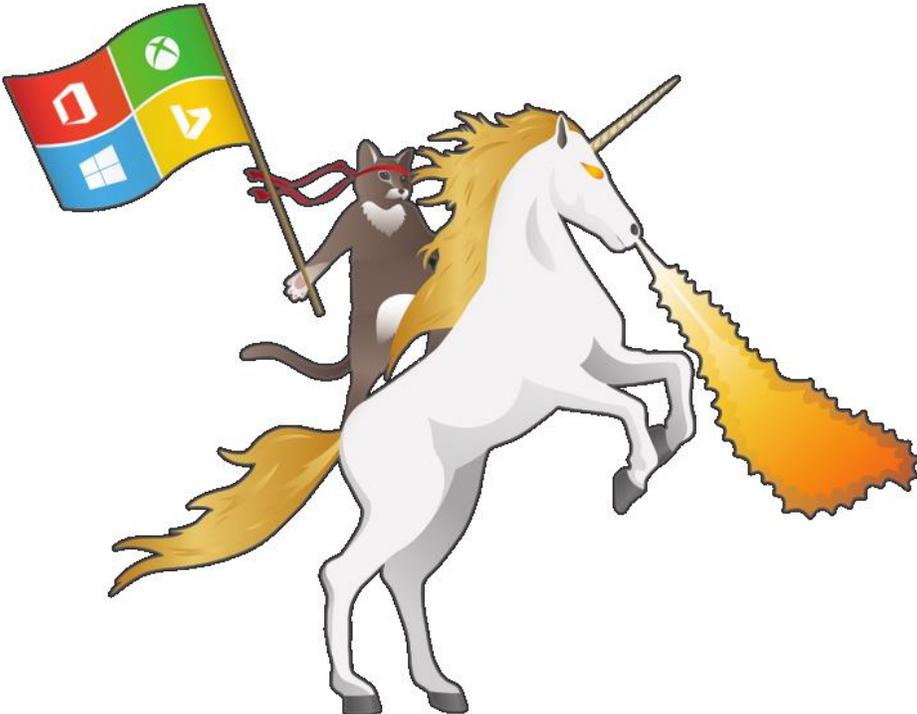
Retained for longer or indefinitely



BUT HEY THAT STUFF
IS OPERATIONS...

WHY WOULD I CARE?

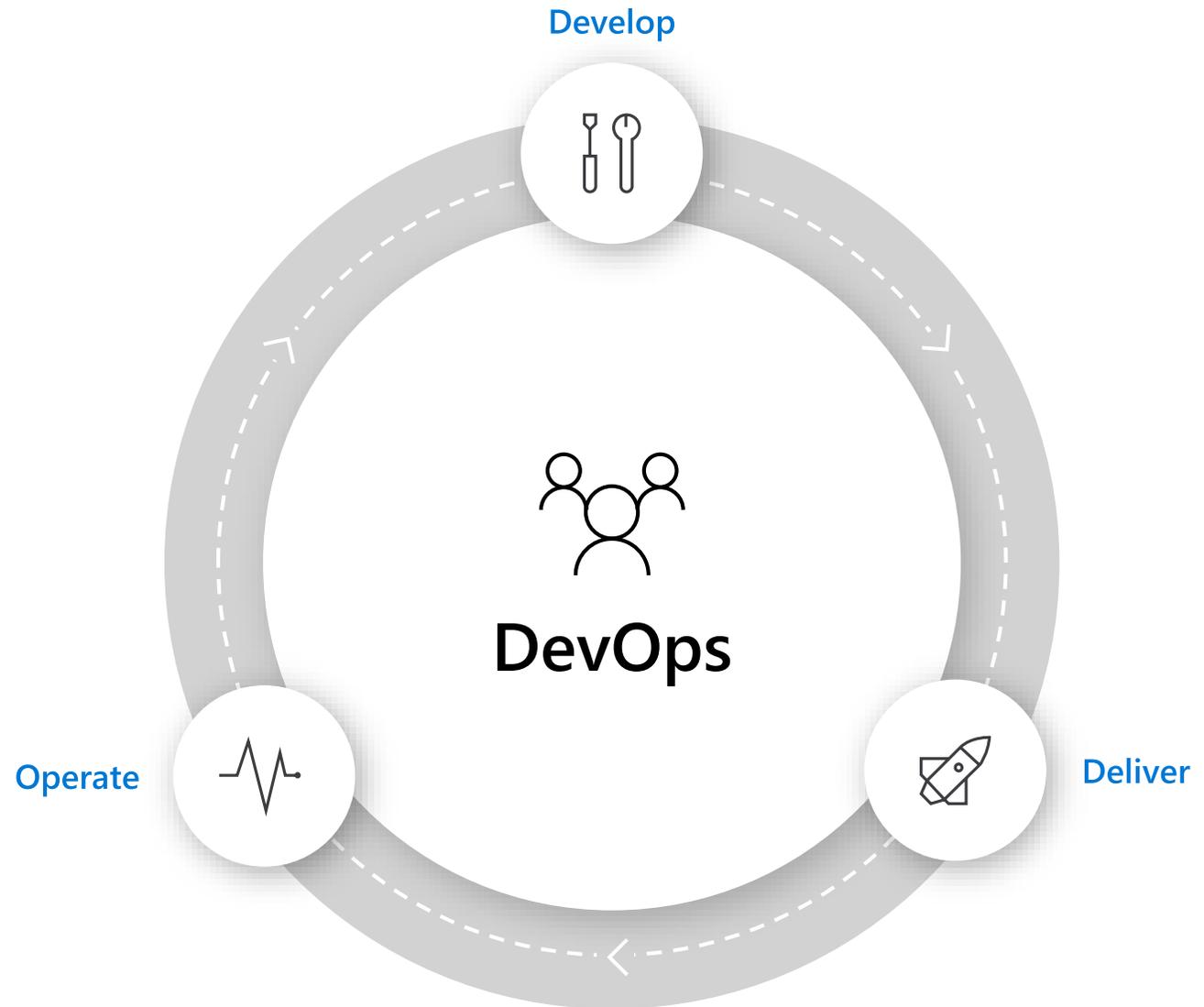
DEVOPS POWERRRR



DEVOPS



- DevOps is the union of **people**, **process**, and **products** to enable continuous delivery of value to your end users.



OKAY, OKAY I CARE...

NOW, WHAT TO MONITOR?

OKAY, OKAY I CARE...

NOW, WHAT NOT TO MONITOR?

WHAT NOT TO DO

FOCUS ON YOUR SYSTEMS

Do you think your users care? At all?

- Is the amount of disk IO really interesting?
- Does page file usage predict conversion?

FOCUS ON AVERAGES

Averages are lying cheats and hide real issues!

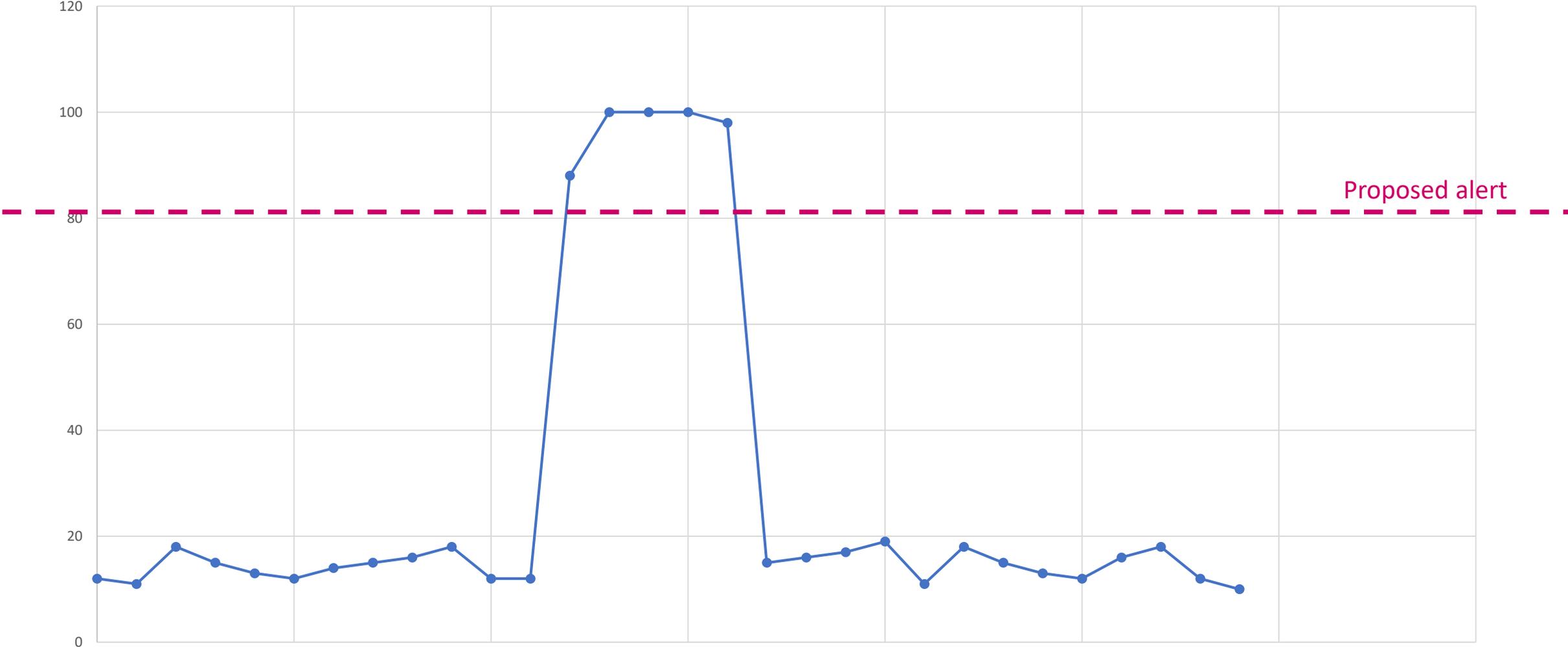
- Use dimensions to find outliers
- Use maximums or percentiles to identify spread

To add some nuance:

- Some system metrics are handy, just don't start there maybe
- Same goes for averages

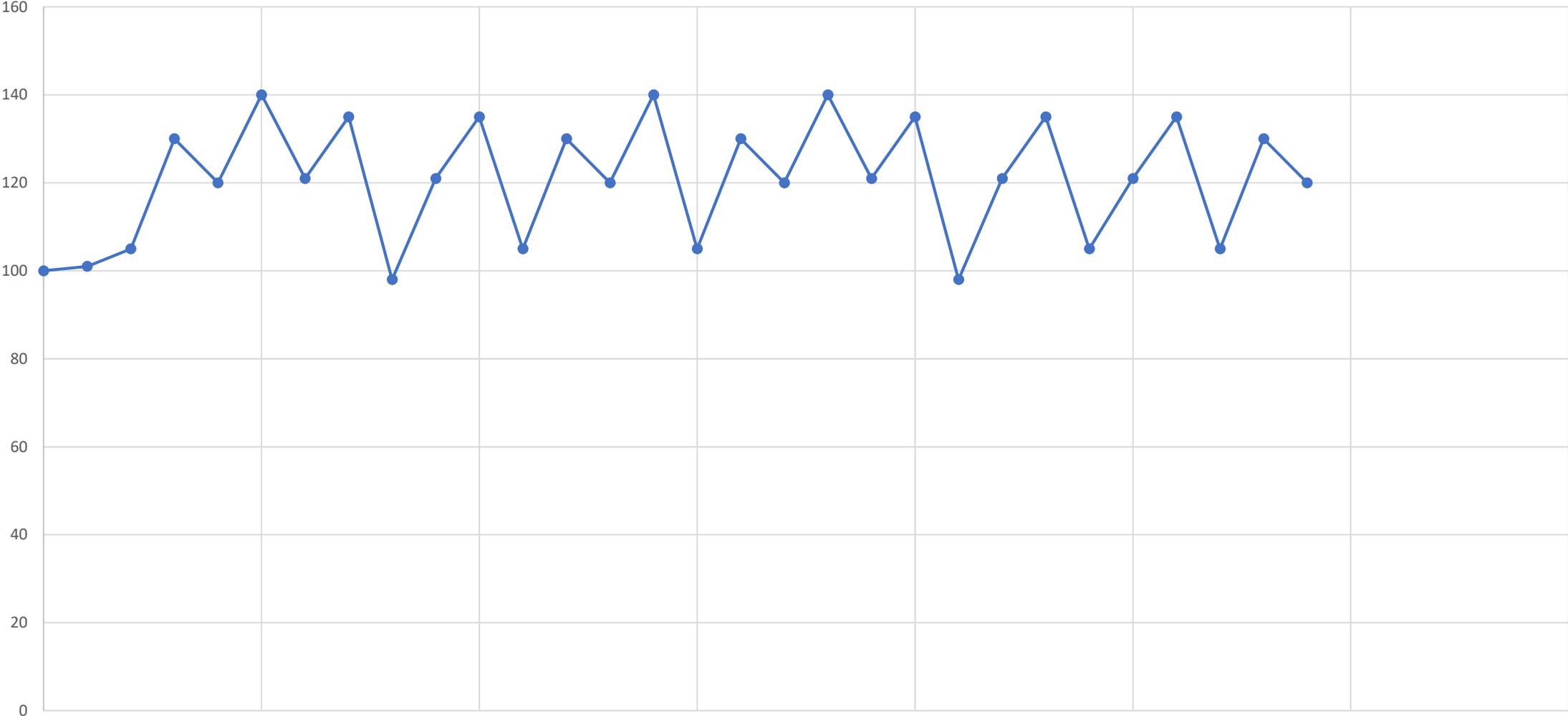
DO WE HAVE AN ISSUE?

Database load(%)



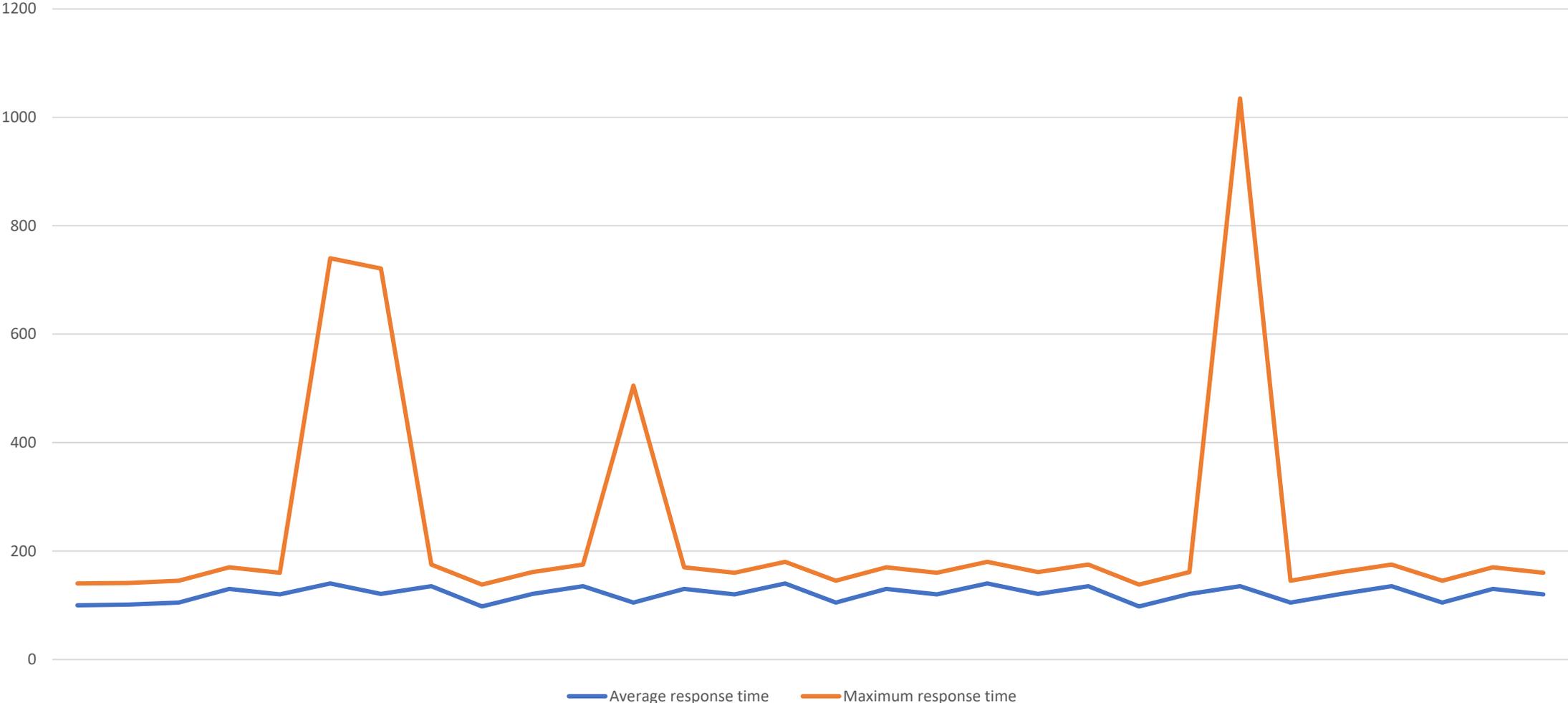
ARE MY USERS HAPPY?

Average response time



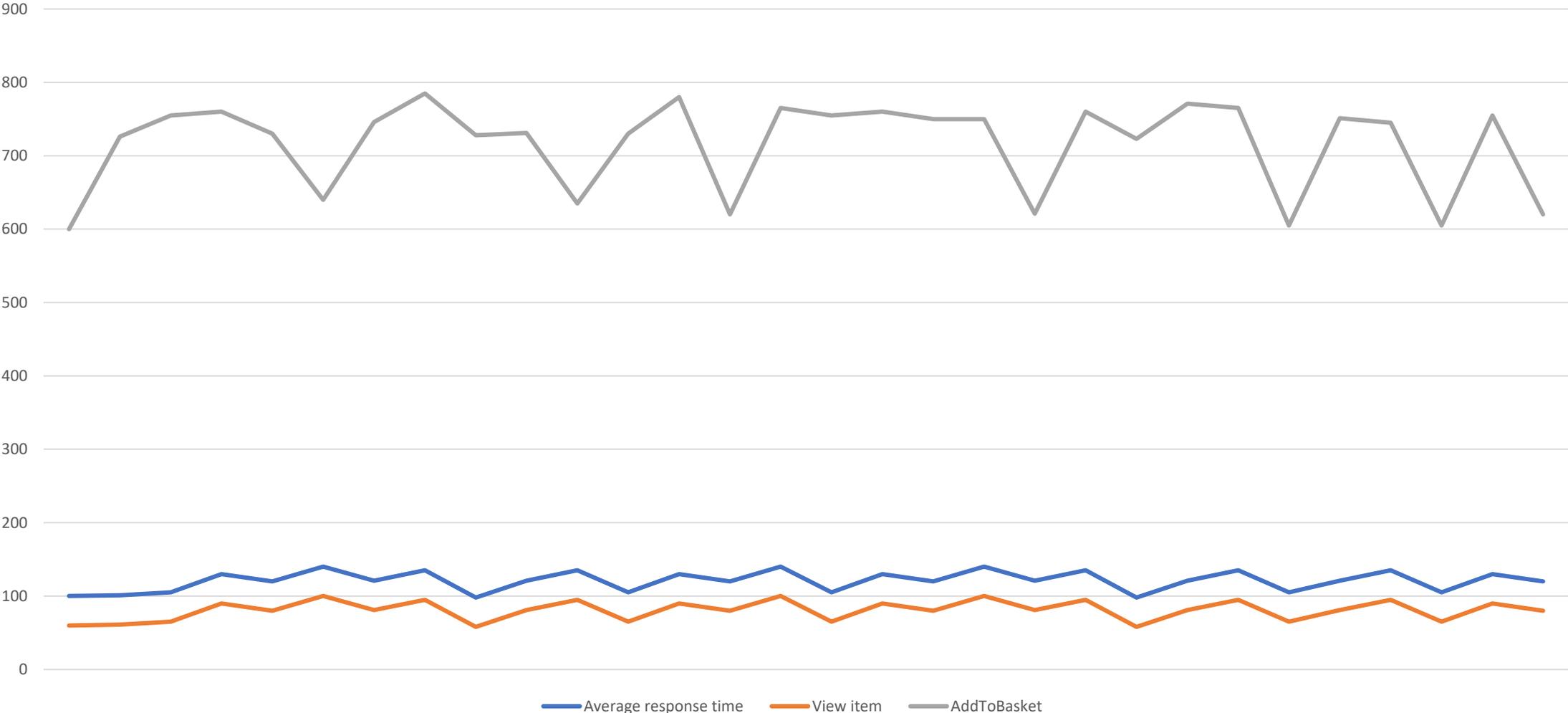
ARE MY USERS HAPPY?

Average response time and maximum response time



ARE MY USERS HAPPY?

Average response time and response time per operation



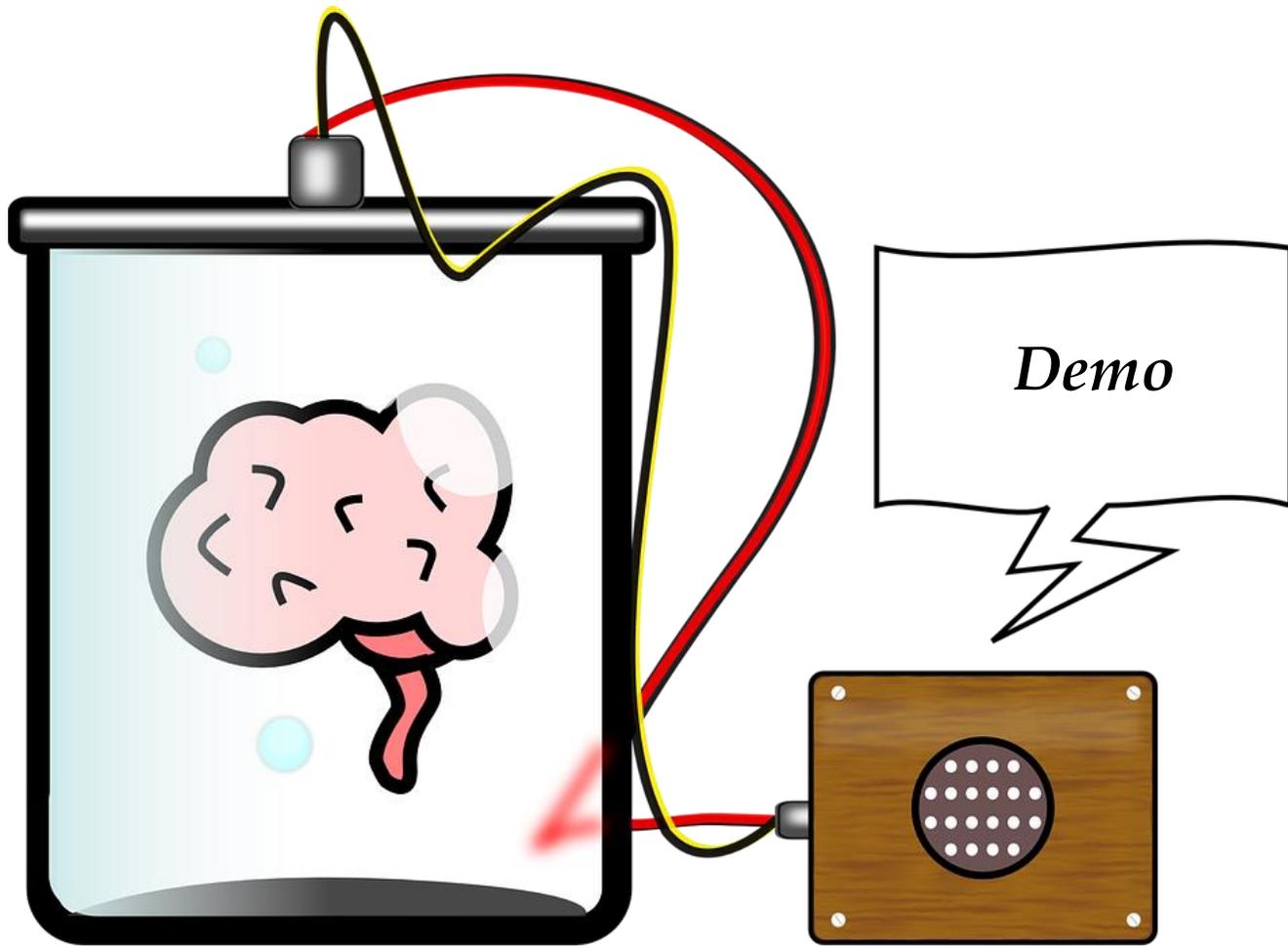


PERCENTILES!

PERCENTILES!

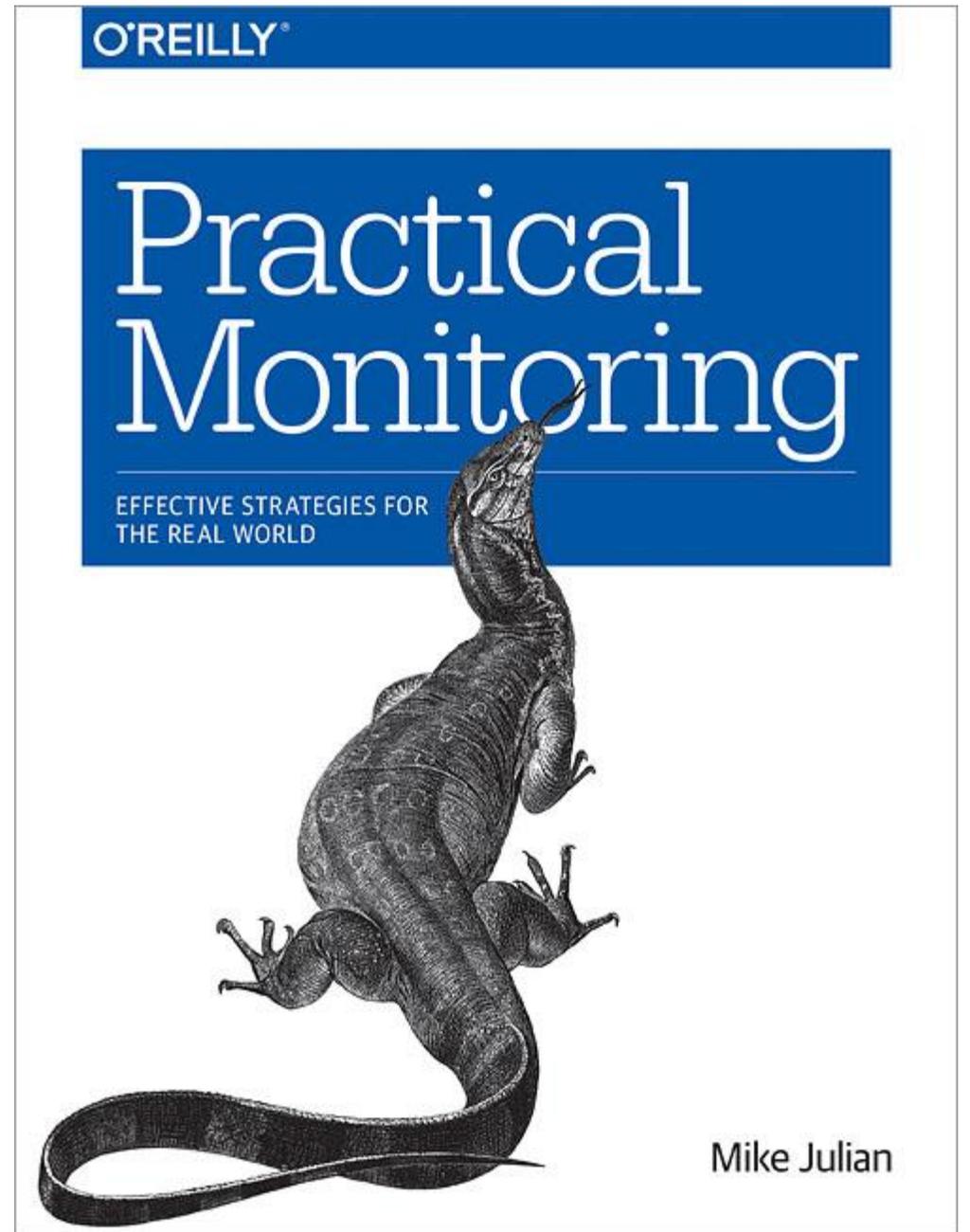
PERCENTILES!

MEASURE THINGS
THE USER CARES ABOUT
AND THINK IT THROUGH!



Let's do a
Quick Demo!

A VERY GOOD BOOK
ALSO QUITE THIN

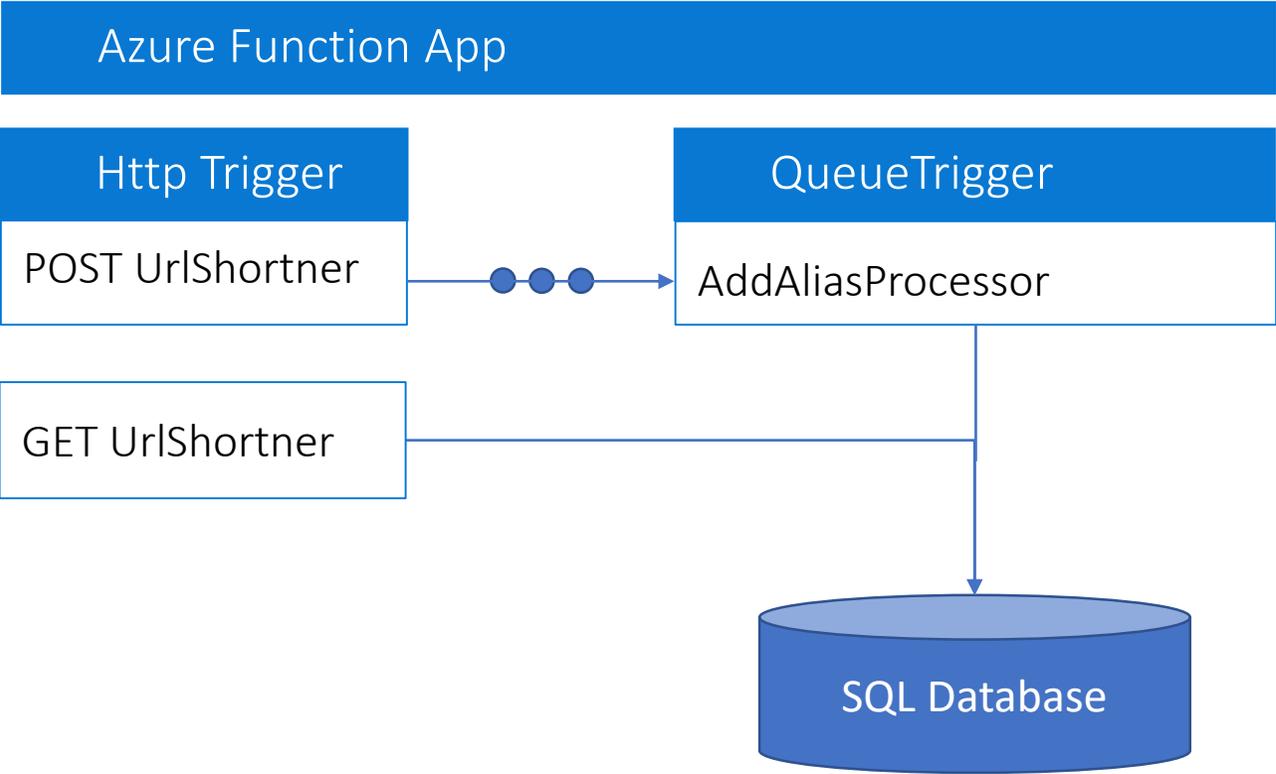


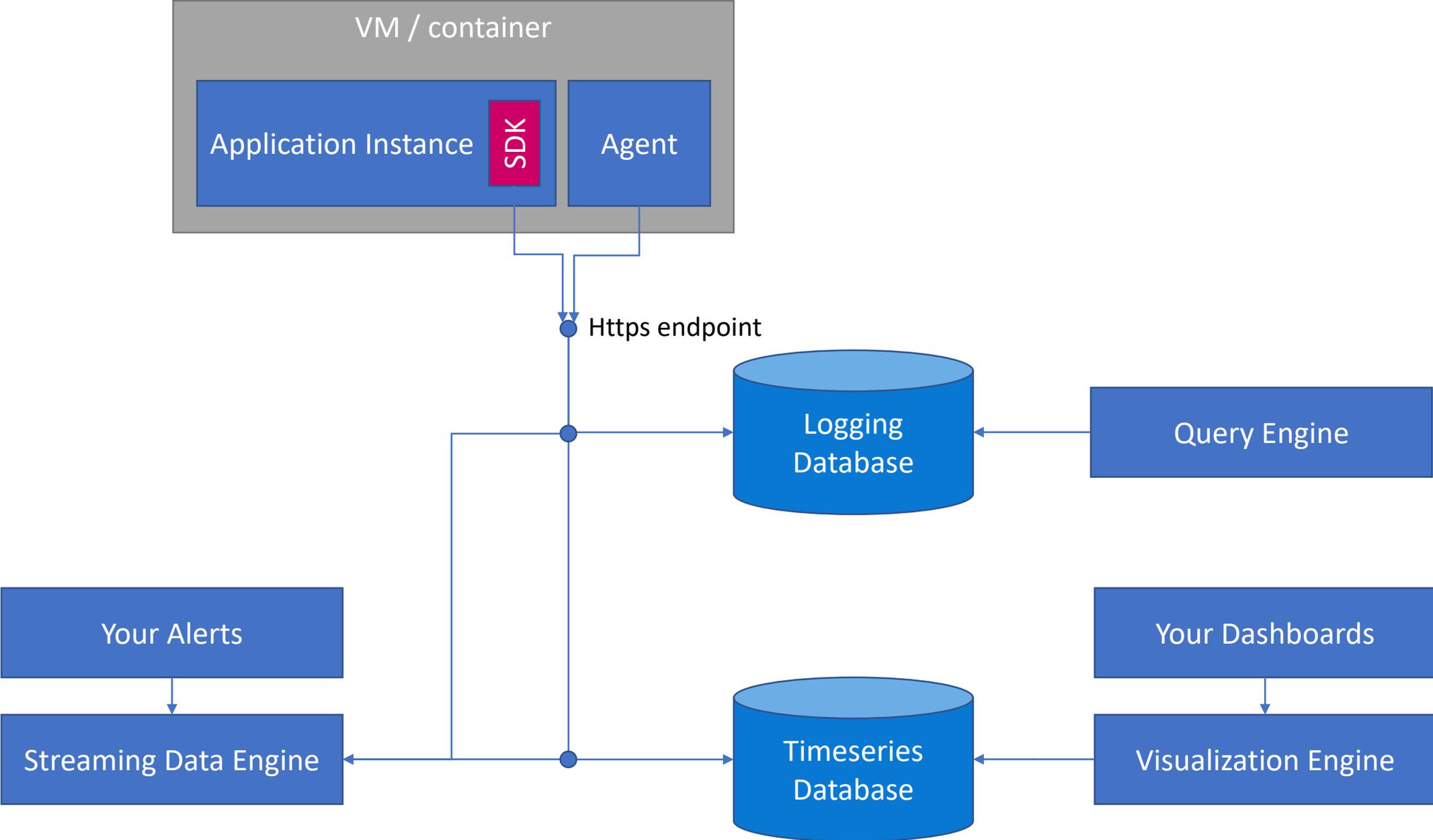
FOR THOSE USING AZURE
HOW WOULD YOU DO IT?



ALMOST DEMO TIME!
A Todo Application...

SPEED:
120





Two more things



DASHBOARDS
AND ALERTS

AS CODE



Questions?

Now is the time!



DO TRY THIS **AT HOME!**

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