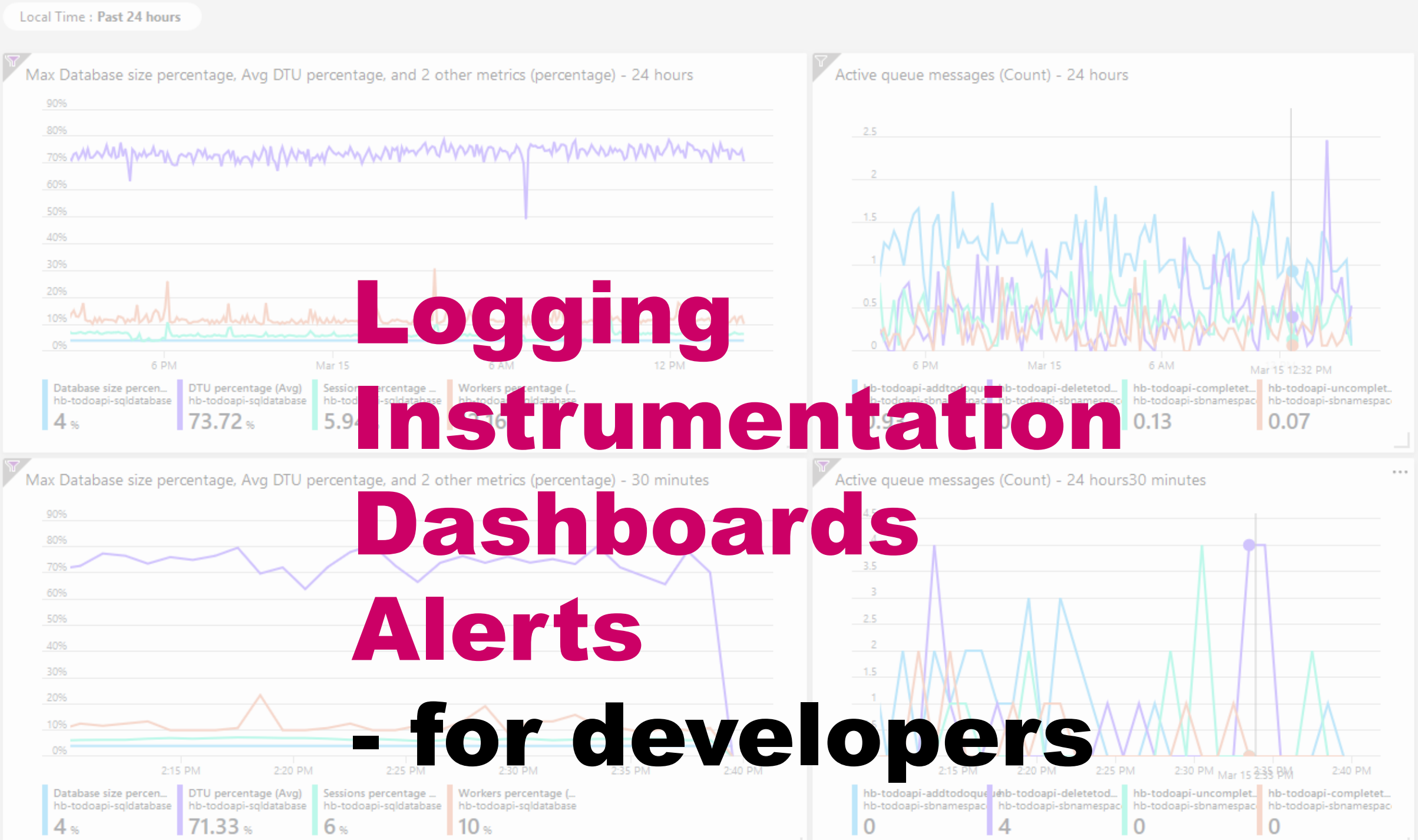
Local Time : Past 24 hours
Max Database size percentage, Avg DTU percentage, and 2 other metrics (percentage) - 24 hours
Active queue messages (Count) - 24 hours
Max Database size percentage, Avg DTU percentage, and 2 other metrics (percentage) - 30 minutes
Active queue messages (Count) - 24 hours30 minutes
Logging
Instrumentation
Dashboards
Alerts
- for developers

WONDERING **WHO** IS THAT GUY?

HENRY BEEN

Independent Devops & Azure Architect

Microsoft MVP & MCT, Pluralsight & book author

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Microsoft® Most Valuable Professional

LOGGING, INSTRUMENTATION, DASHBOARDS & ALERTS

Monitoring Theory

What to monitor

Demo

MONITORING

-or-

KNOWING WHAT IS 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 be a source of metrics

Retained for a limited time

Logging

Often combined with tracing

Concerned with state changes

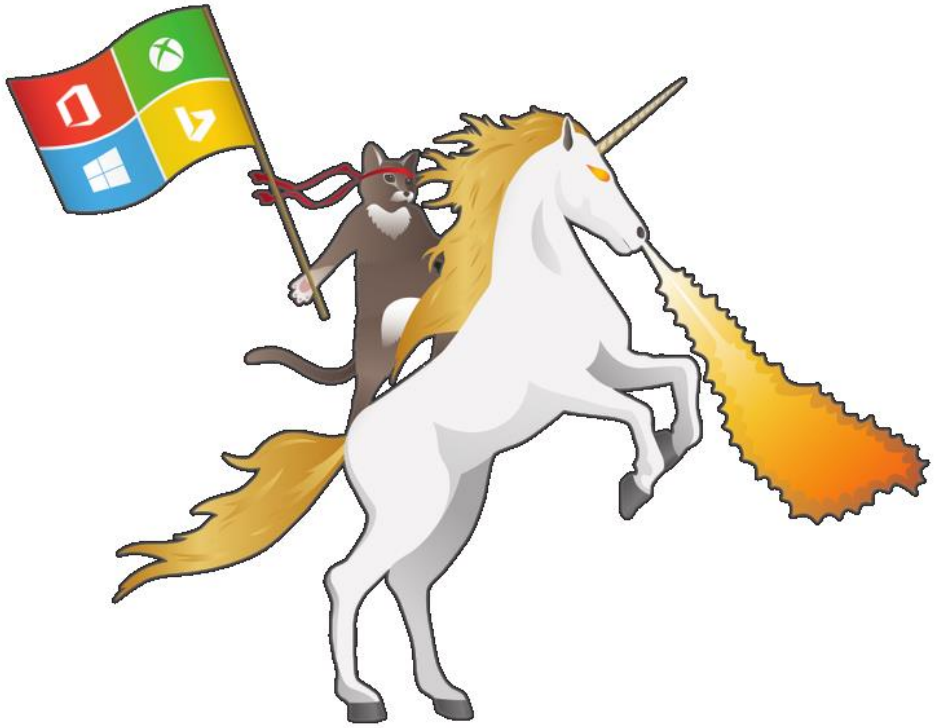
- When
- By who
- What changed
- Can be a source of metrics

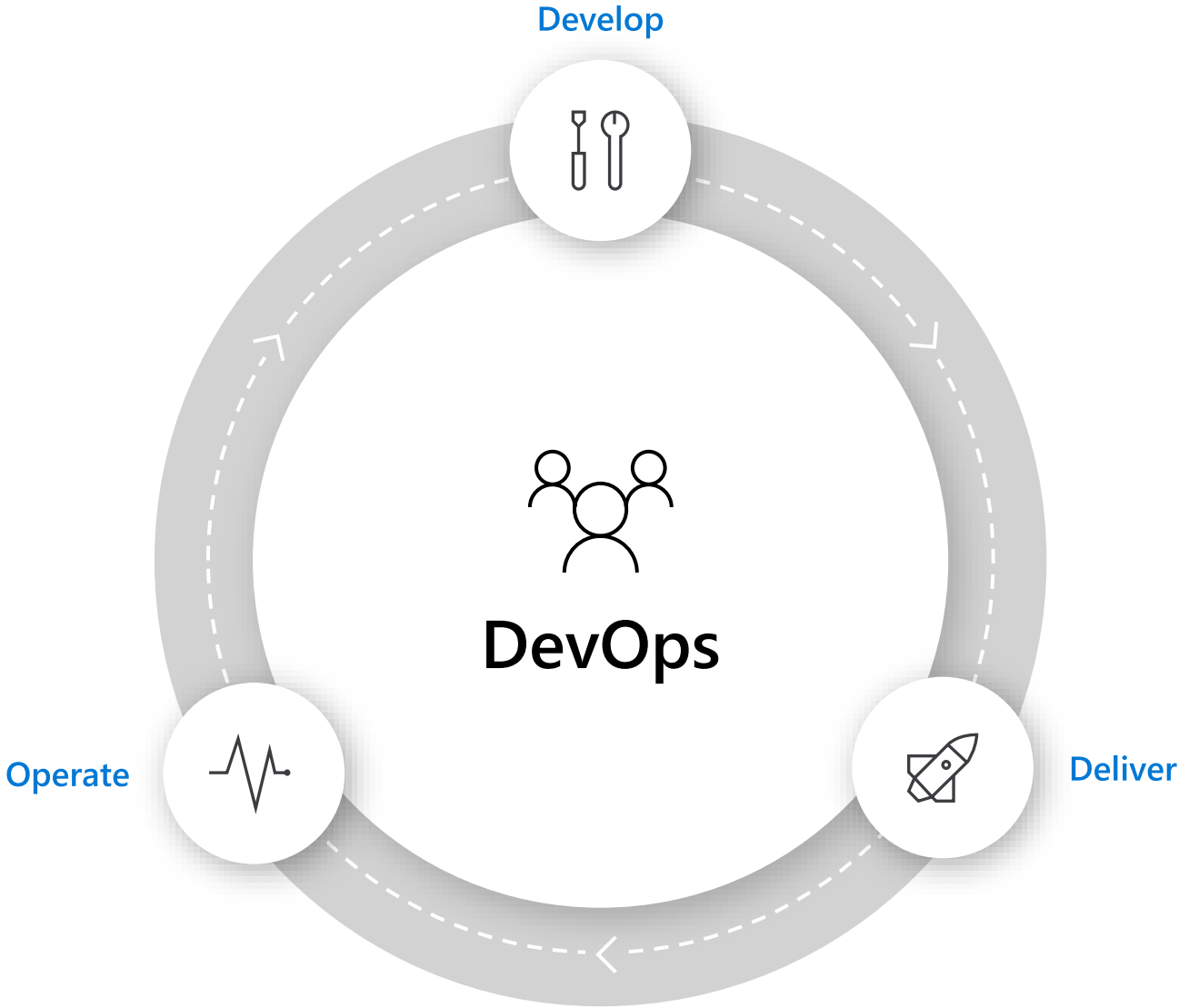
Retained for longer or indefinitly

BUT HEY THAT STUFF
IS OPERATIONS…

WHY WOULD I CARE?

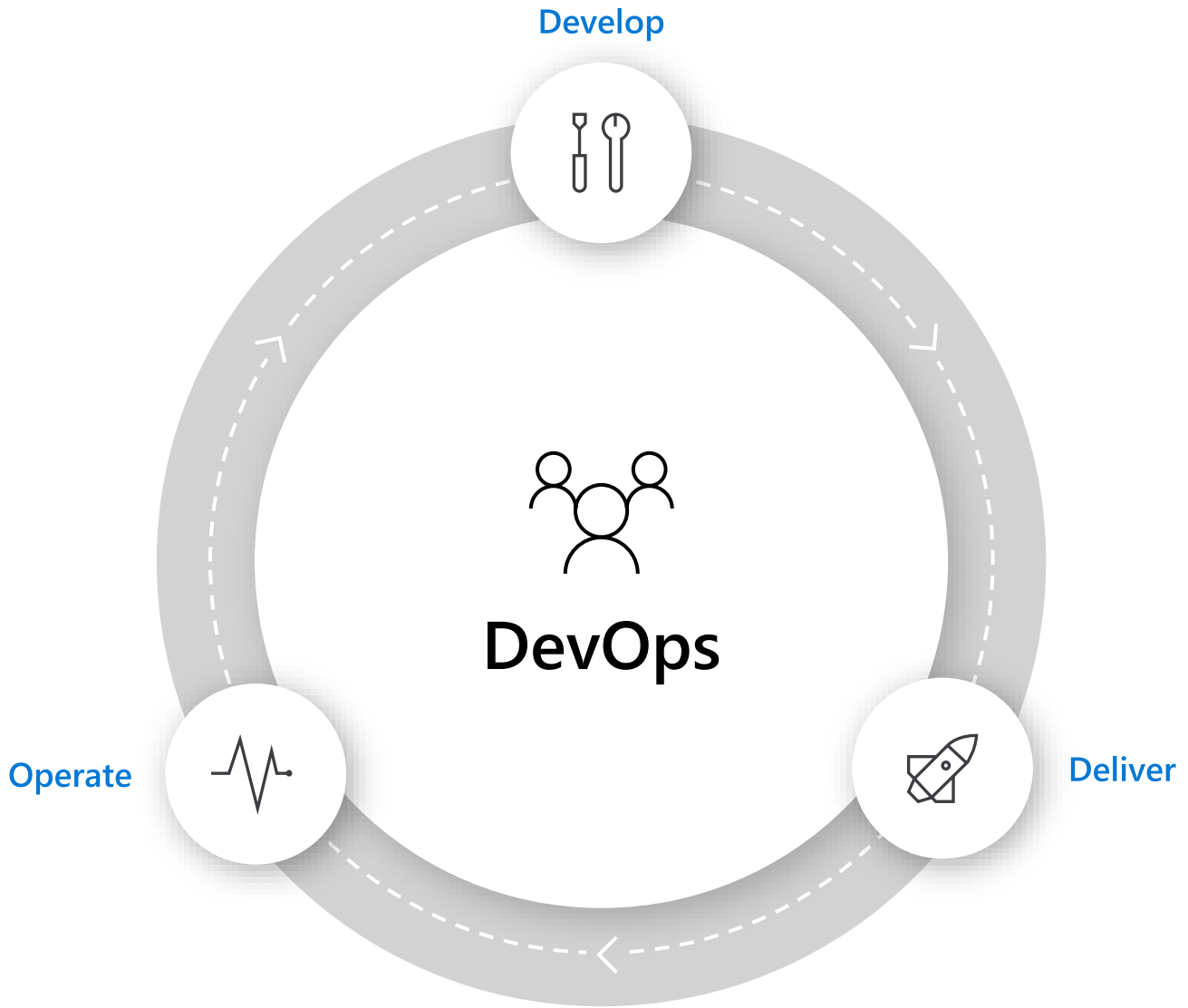
DEVOPS POWERRRR





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 MONITOR (MAYBE)

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

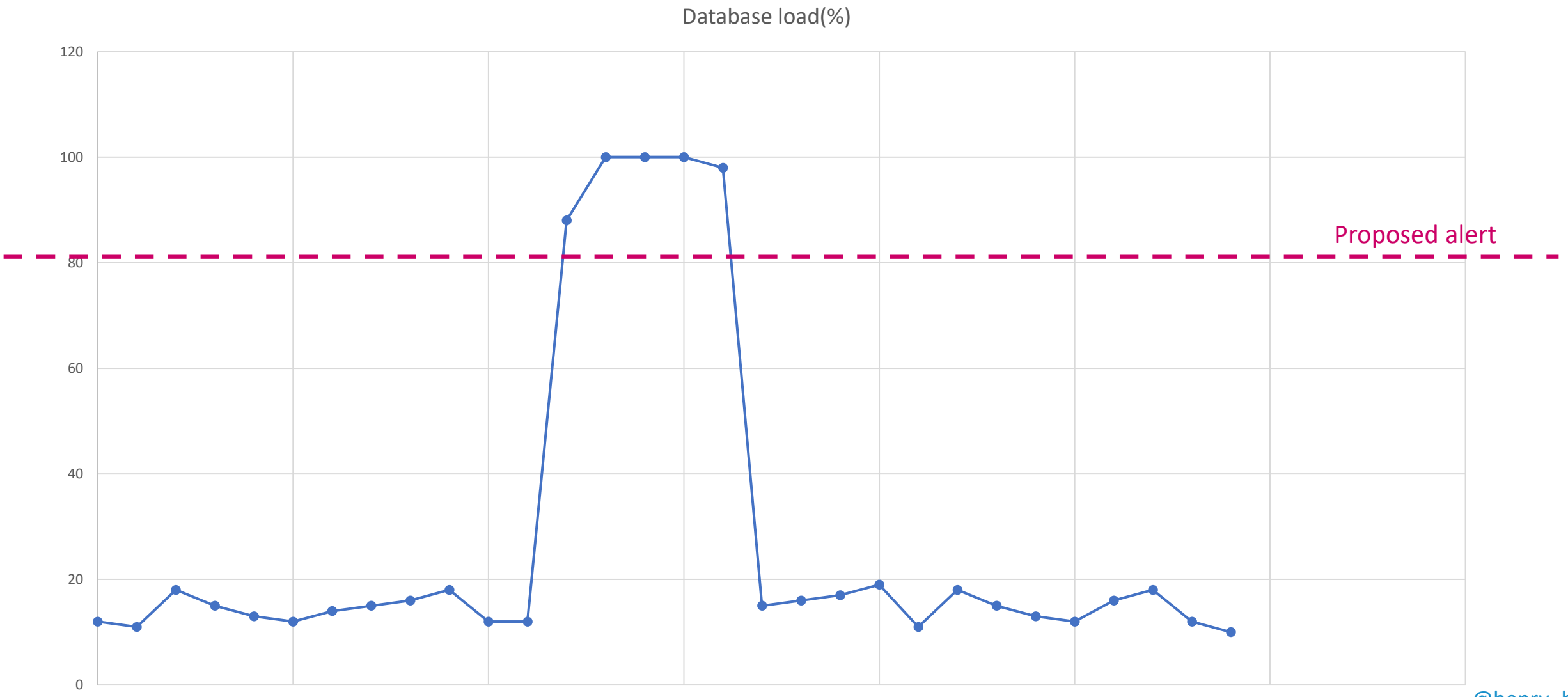
Averages are lying cheats and hide real issues!

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

To add some nuances:

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

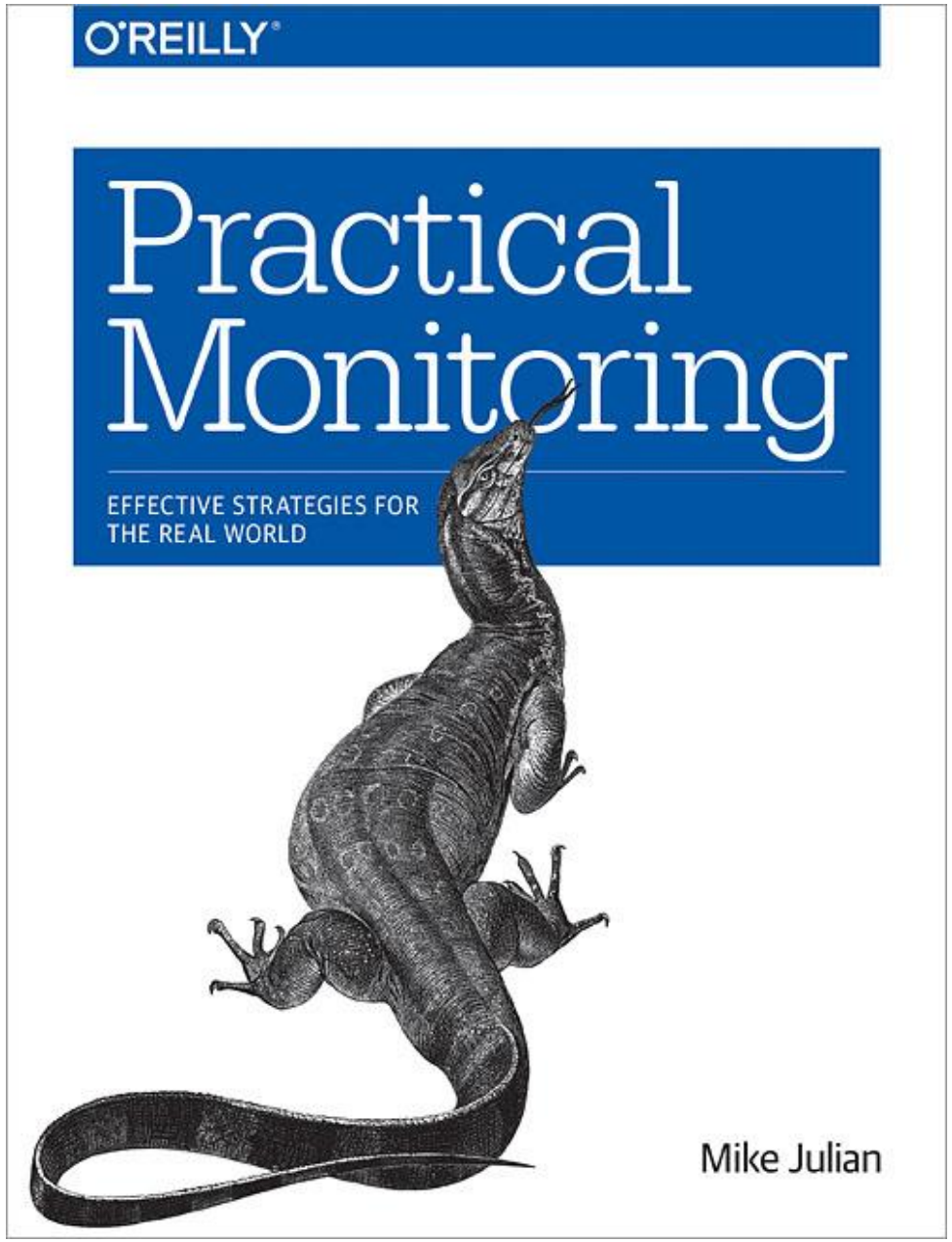
DO WE HAVE AN ISSUE?



MEASURE THINGS
THE USER CARES ABOUT

AND THINK IT THROUGH!

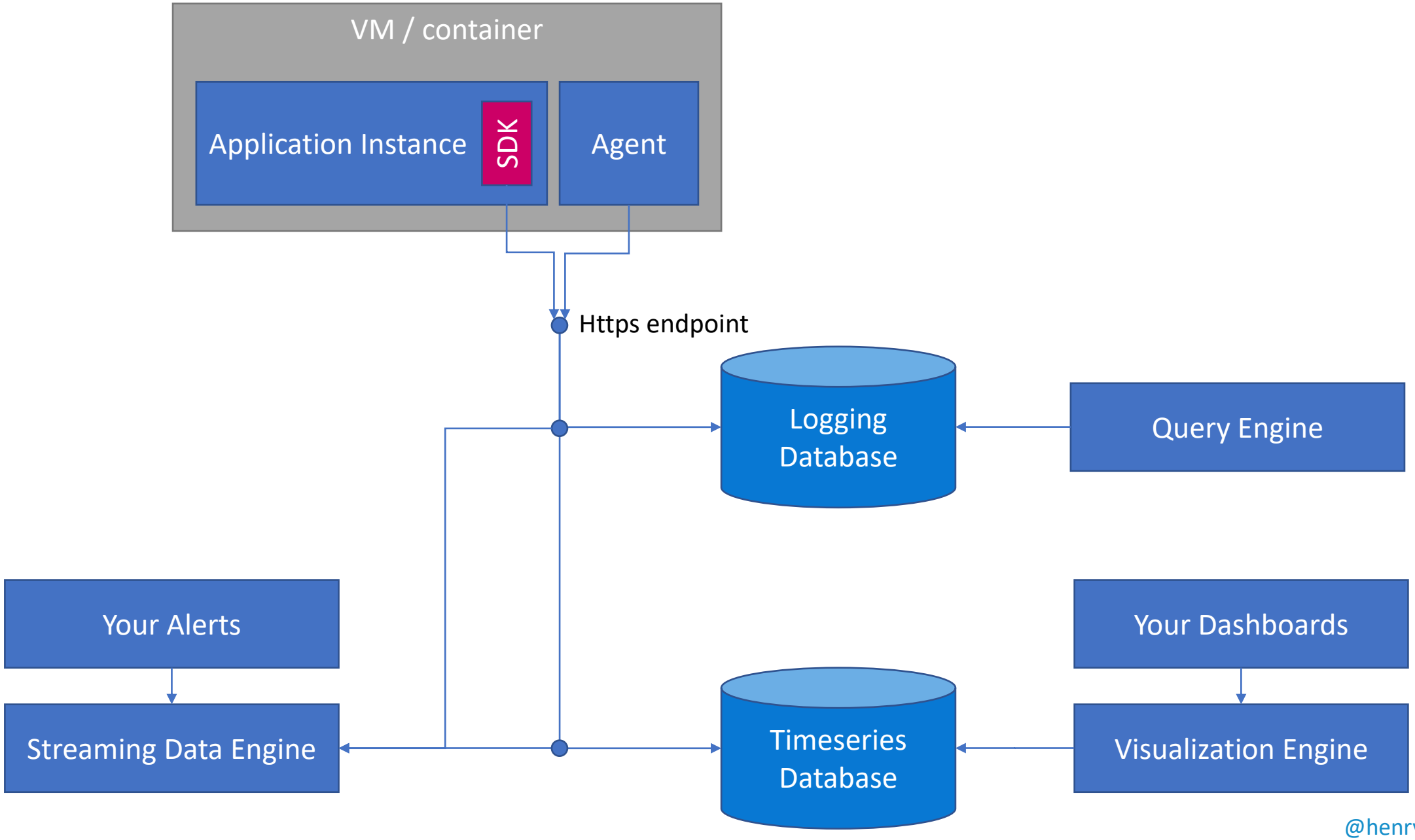
A VERY GOOD BOOK
ALSO QUITE THIN



@henry_been

FOR THOSE USING AZURE

HOW WOULD YOU DO IT?


VM / container
Application Instance
SDK
Agent
Https endpoint
Logging Database
Query Engine
Your Alerts
Streaming Data Engine
Timeseries Database
Your Dashboards
Visualization Engine

@henry_been

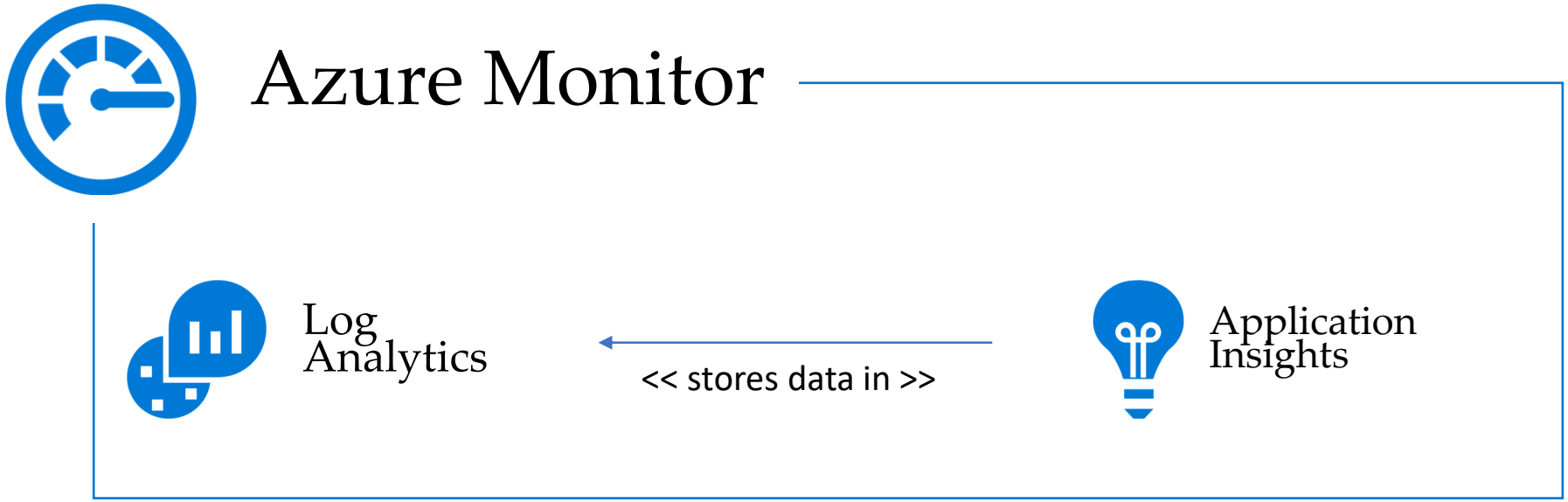
AZURE SERVICES

Application Insights

Log Analytics

Azure Monitor

AZURE SERVICES



	Logs	Metrics
Application specific	Manual Application Insights SDK + Application Insights + Log Analytics	Manual Application Insights SDK + Application Insights + Log Analytics
Application Generic	Enable/Automatic Application Insights + Log Analytics	Enable/Automatic Application Insights + Log Analytics
Infrastructure	Configurable/Automatic Diagnostic settings + Log Analytics Workspace	Built-in, free (90 days retention) Metrics tab *Alternative: Log-based metrics*

And now for real...
SPEED:

Two more things

DASHBOARDS AND ALERTS

AS CODE

DO TRY THIS **AT HOME!**

HENRY BEEN
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Questions?

Now is the time!

DO TRY THIS AT HOME!

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