Scaling Camel to the Cloud

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Observe and scale your integrations

About

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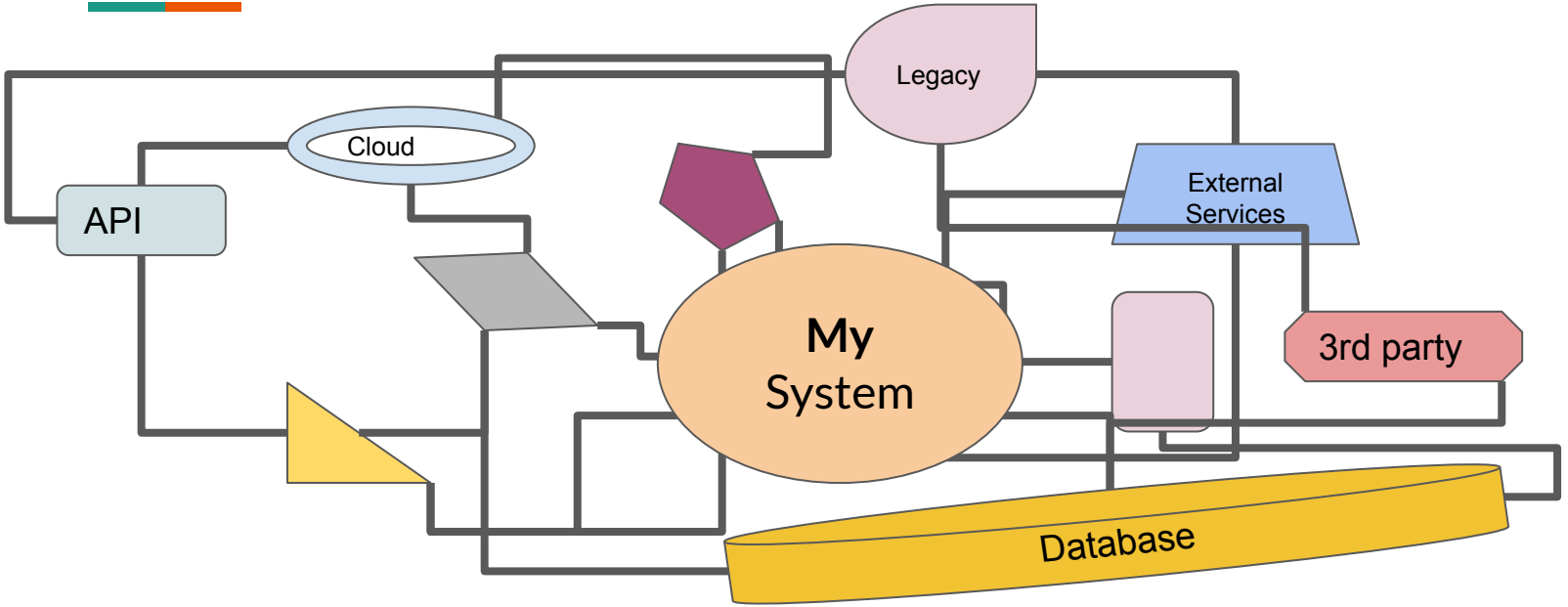
Agenda

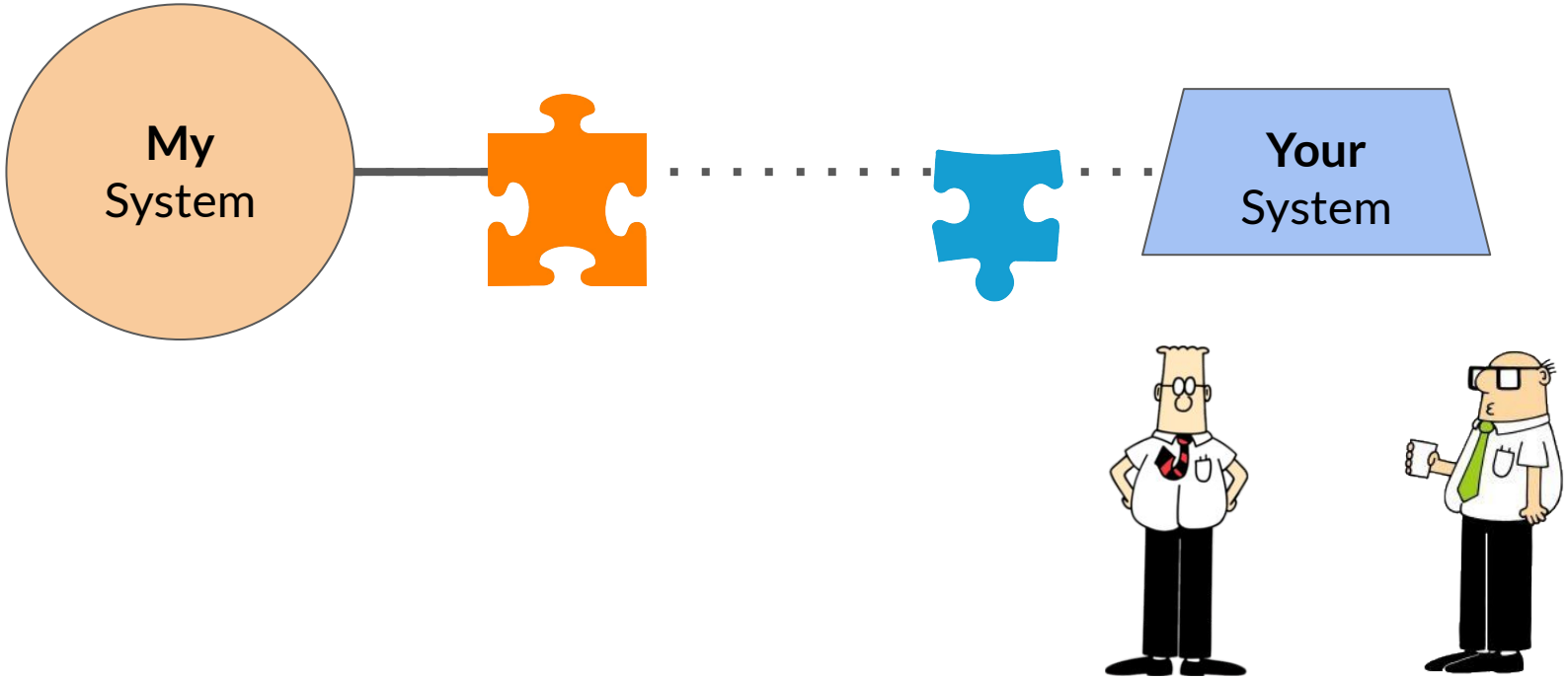
- Introduction
- Camel
- Camel Quarkus
- Observability and Telemetry

Your system ...



... is **not alone**!

Even with only 2 systems ...



Development is fun ...

It is so **fast**!

We love **microservices**!

Kubernetes is fun!

Let's use **containers!**

... until you deploy to **production**!

Operational visibility

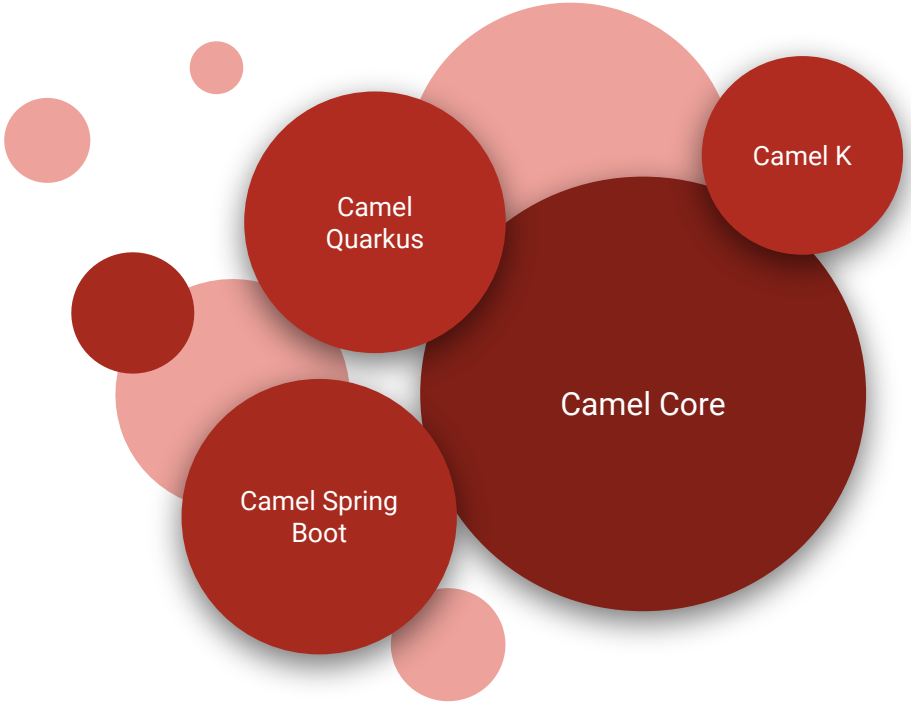
Is it **REALLY** fast?

 # of consumers?

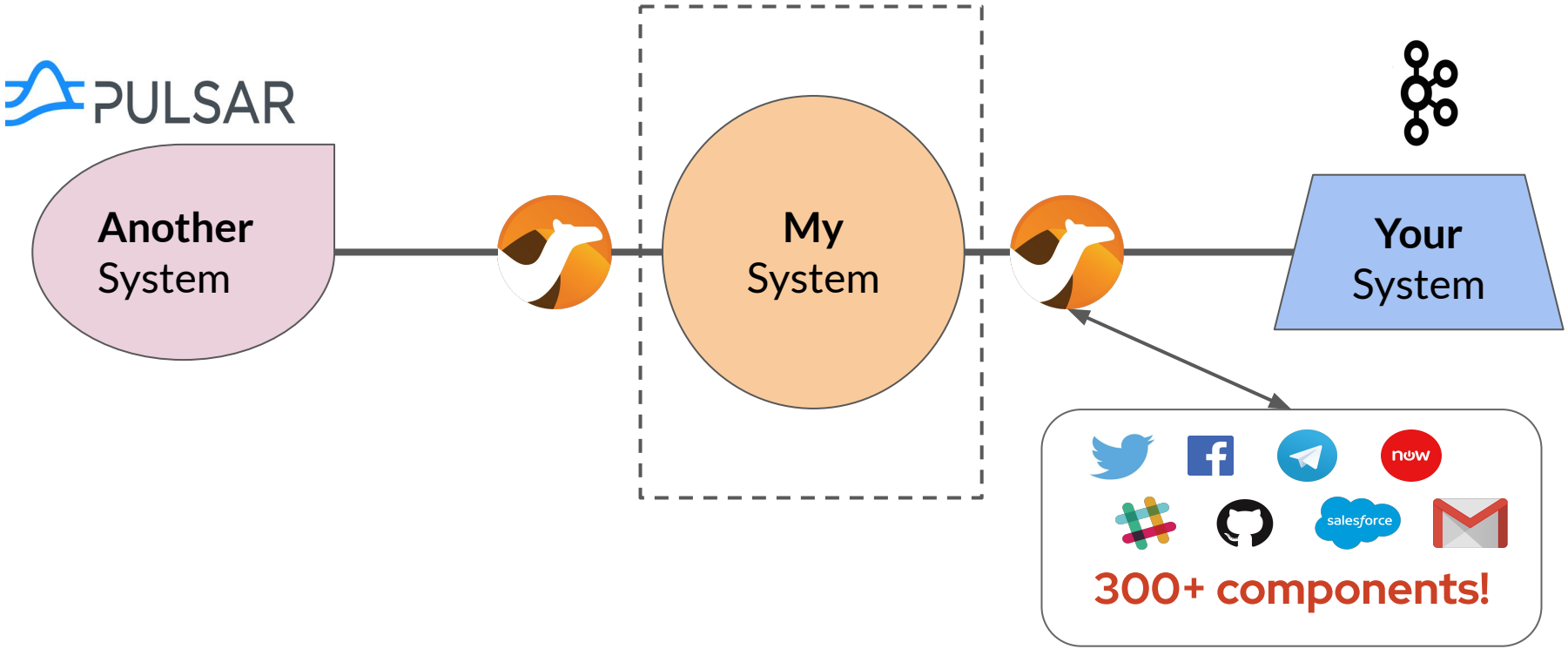
4Gb of **memory**

What if XYZ **goes down!**

Apache Camel empowers you



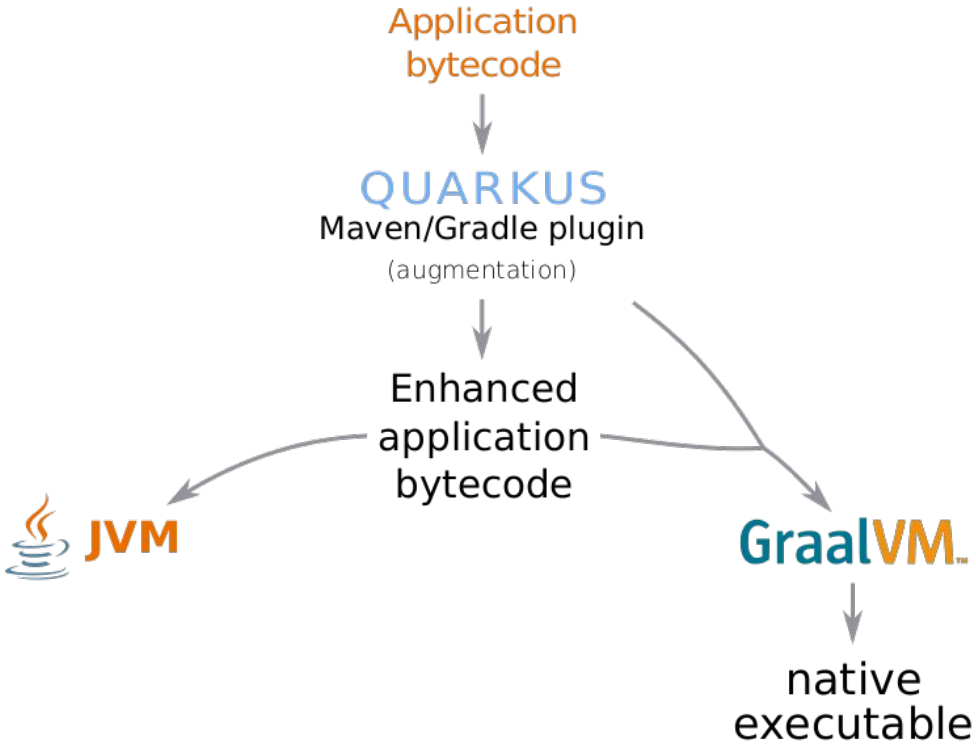
Apache Camel can set you free



Camel Quarkus

Camel Quarkus brings together the **awesome** integration capabilities of Apache Camel and its vast component library to the **Supersonic, Subatomic** Quarkus runtime

Camel Quarkus



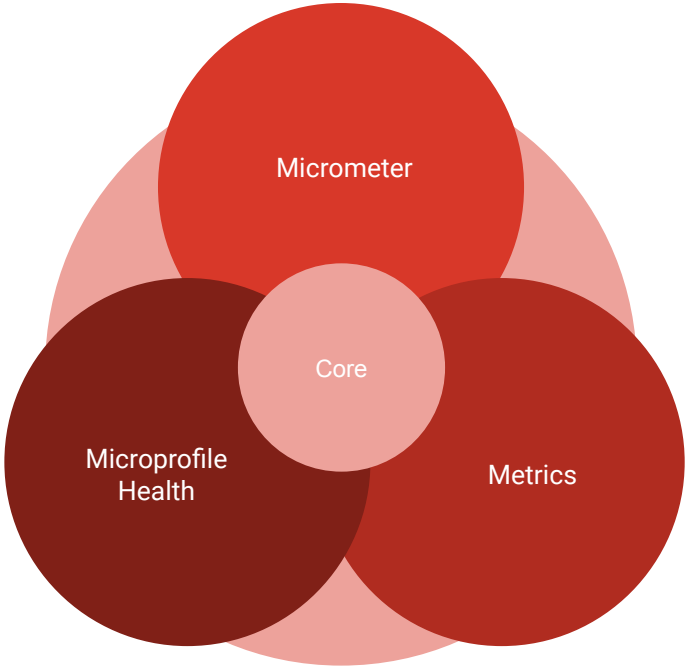
Why Camel on Quarkus

💾 Small size on disk
🚀 Fast boot time
🔬 Low memory footprint

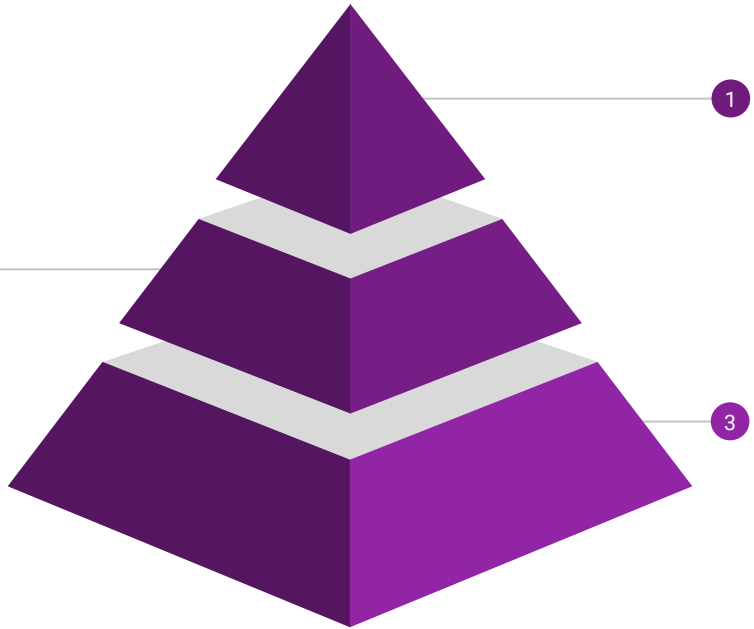
✓ Small container images
✓ Instant scale up
✓ More containers with the same amount of RAM

Camel Health Checks

Metrics Components



Camel Management



Camel

1 Core Camel statistics

Dependencies

Any dependency in use by Camel, gets automatically included 2

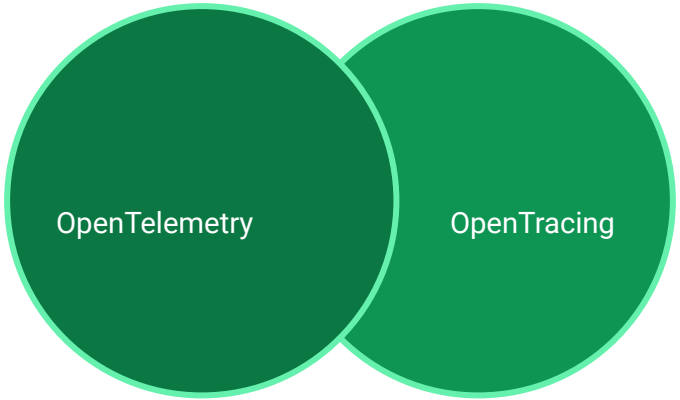
JVM

3 Brought to you by JMX

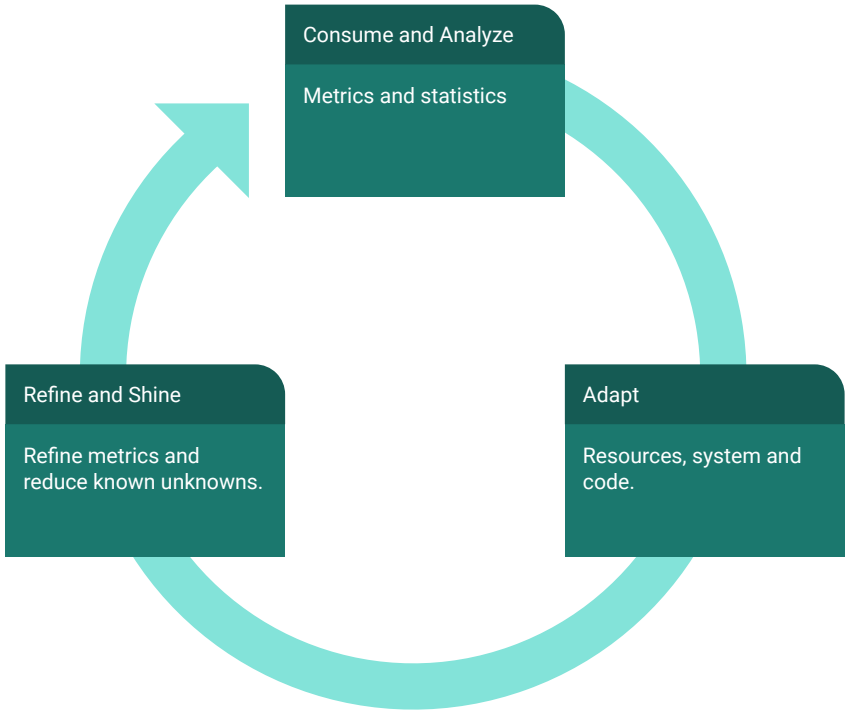
Camel Management

```
<!-- This enables JMX management for Camel →
<dependency>
    <groupId>org.apache.camel</groupId>
    <artifactId>camel-management</artifactId>
</dependency>
```

Telemetry Components



Conclusion


Consume and Analyze
Metrics and statistics
Adapt
Resources, system and code.
Refine and Shine
Refine metrics and reduce known unknowns.

Apache Camel

APACHE
Camel

- https://camel.apache.org
- Chat: https://camel.zulipchat.com
- Mailing list: dev@camel.apache.org
- Follow @ApacheCamel

Feedback and contributions are welcome!

Thank you

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