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# OPERATIONAL AND BUSINESS INSIGHTS FROM TRACING DISTRIBUTED MICROSERVICES

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# AGENDA

- \* TRADITIONAL VS. DISTRIBUTED TRACING
- \* WHAT IS OPEN TRACING
- \* WHAT IS HAWKULAR
- \* WHAT IS HAWKULAR APM
- \* DEMO
- \* Q&A

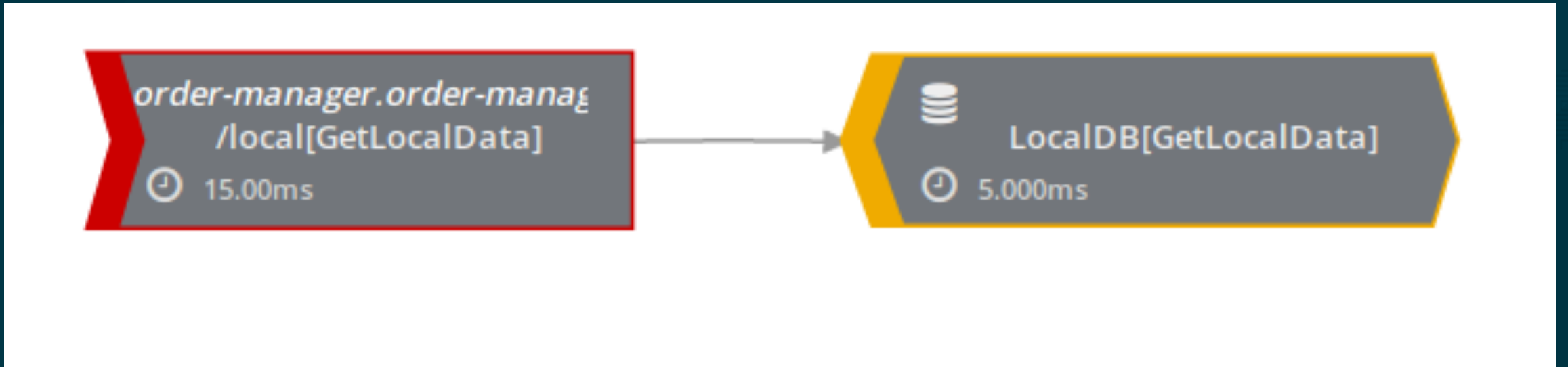
# BEFORE WE START...

```
$ cd ${HAWKULAR_APM_SRC}/examples/vertx-opentracing
$ oc cluster up
$ ansible-playbook vertx-opentracing.yml
...
...
TASK [Print out the order-manager address] *****
ok: [localhost] => {
    "msg": "The hostname for the Order Manager service is: http://order-manag
}
```

# MONITORING MICROSERVICES

## TRADITIONAL VS. DISTRIBUTED TRACING

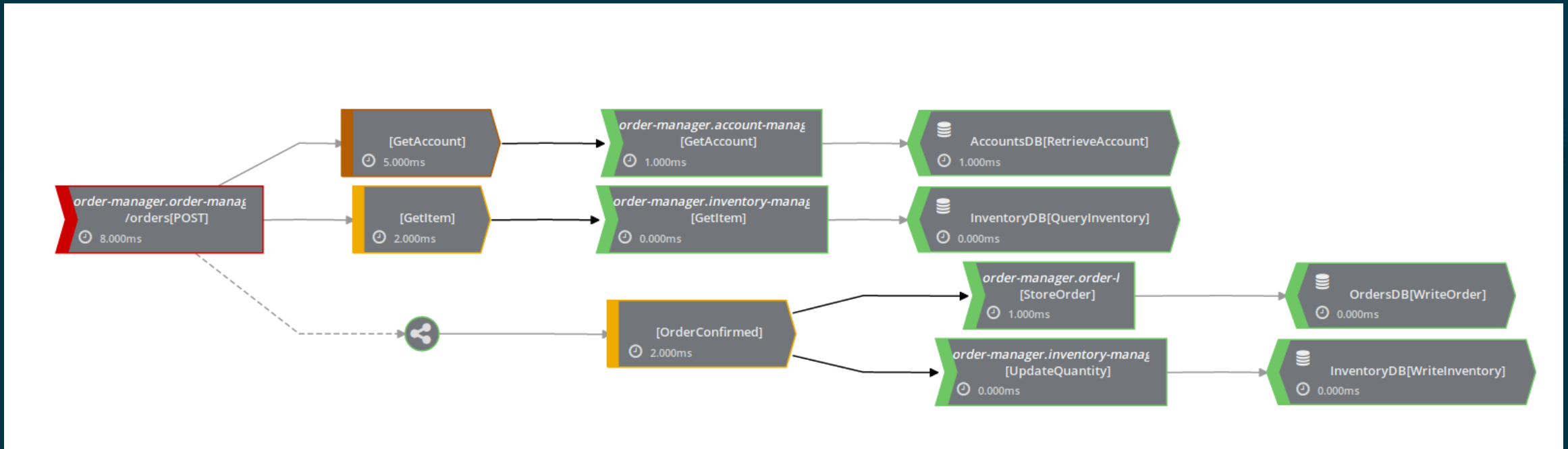
Traditional tracing:



# MONITORING MICROSERVICES

## TRADITIONAL VS. DISTRIBUTED TRACING

Distributed tracing:



\* actual screen capture

# WHAT IS OPENTRACING

- \* VENDOR-NEUTRAL OPEN STANDARD FOR DISTRIBUTED TRACING
- \* CNCF PROJECT
- \* STANDARDIZES DISTRIBUTED TRACING SEMANTICS
- \* STANDARD API FOR TARGET APPLICATIONS

# WHAT IS HAWKULAR

- \* OPEN SOURCE
- \* RED HAT PROJECT
- \* SET OF MONITORING-RELATED COMPONENTS
- \* USED IN OPENSIFT

# WHAT IS HAWKULAR APM

- \* OPEN SOURCE
- \* RED HAT PROJECT
- \* APPLICATION PERFORMANCE MANAGEMENT
- \* OPENTRACING IMPLEMENTATION



# DEMO

Goal 1 - Business insight:  
track business transactions

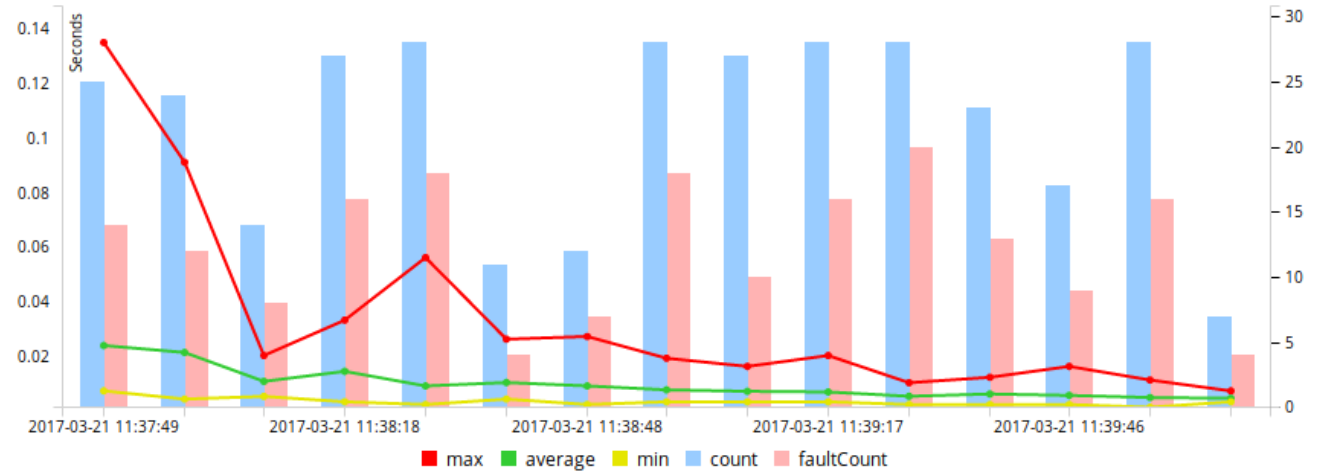
## Place Order

Aggregation Interval: 10 Second

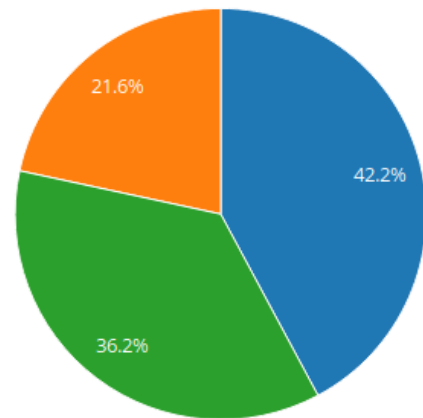
Lower Bound(%): 0

Last Update: 21 Mar 2017 11:40:13

Pause Live Data



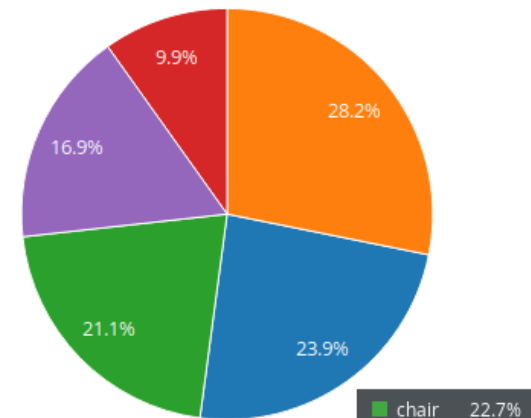
### Faults



Item not found Not account found Out of stock

### Property

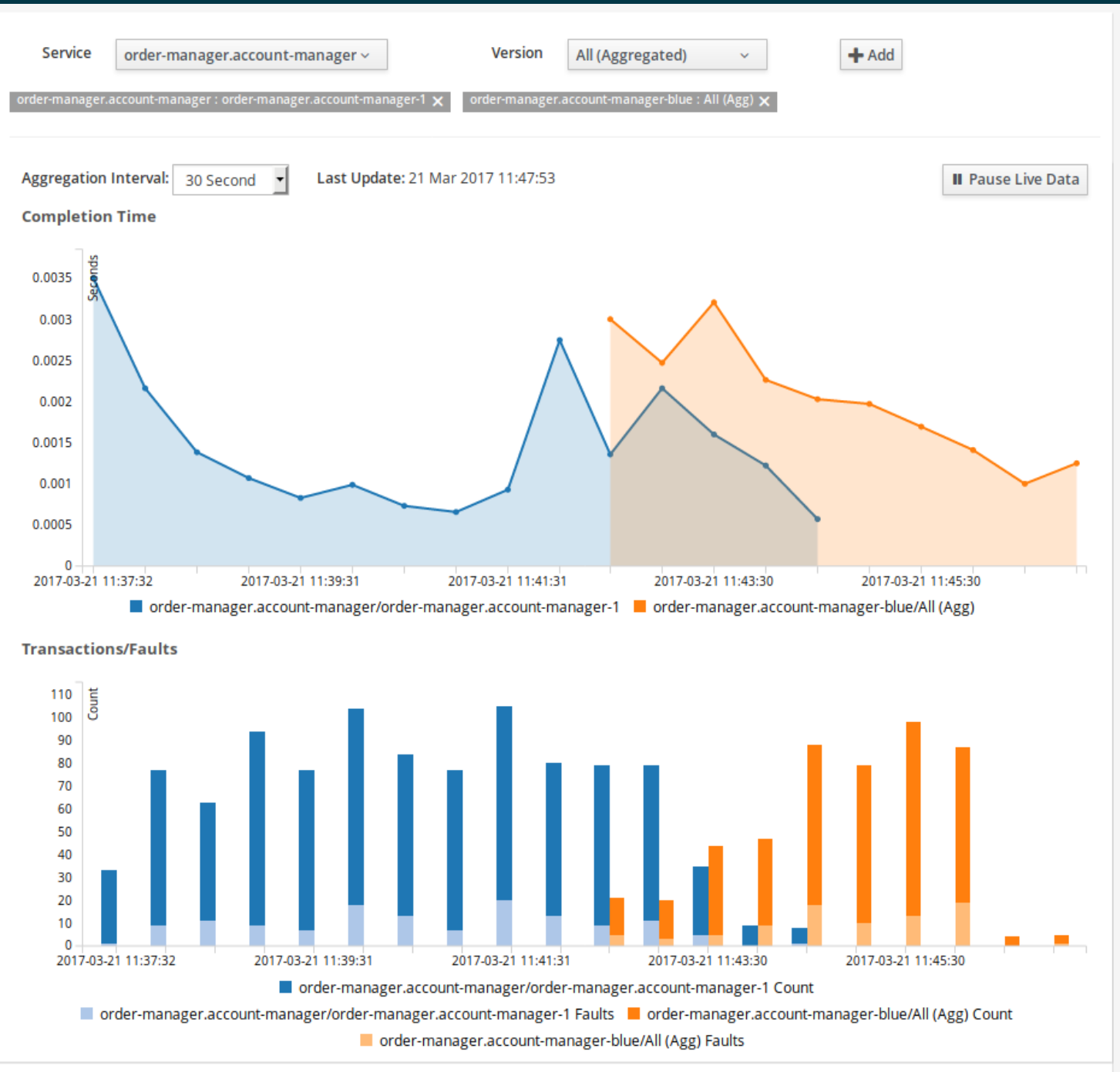
itemId



book car chair dvd laptop

# DEMO

Goal 2 - Operational insight:  
assessing a canary release



**DEMO**

# RESOURCES

- \* [WWW.OPENTRACING.IO](http://WWW.OPENTRACING.IO)
- \* [WWW.HAWKULAR.ORG](http://WWW.HAWKULAR.ORG)
- \* [#HAWKULAR @ FREENODE](#)

**QUESTIONS?**



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THANK YOU!



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