BECAUSE UP IS NOT **ENOUGH**

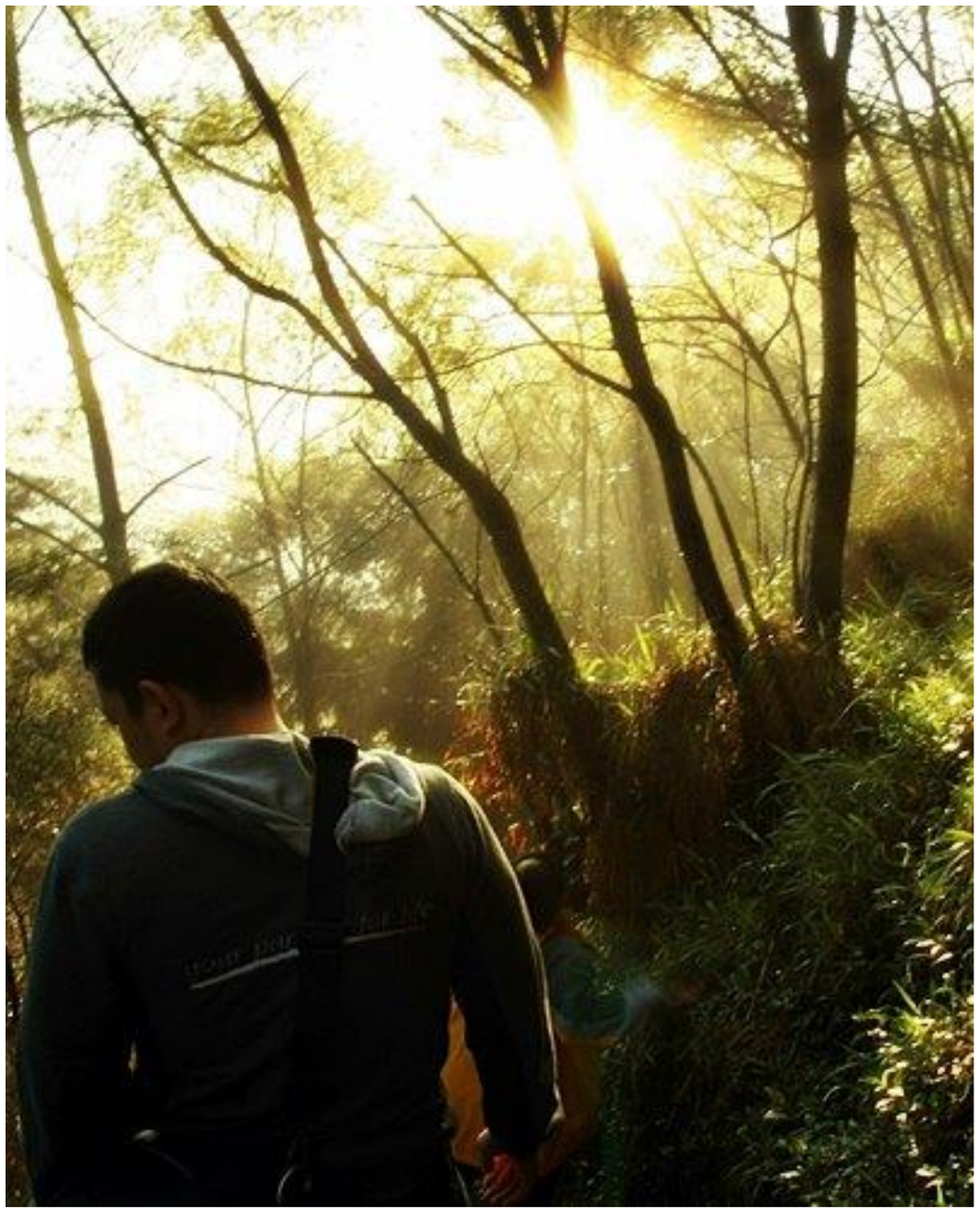
JVM Meetup #12

WE ARE HIRING

david.bejar@allianz.co.id
ricky.martaputra@allianz.co.id
hendi.santika@allianz.co.id

SPEAKER #1

- Java Experience since 2004
- SCJP and SCWCD Certified
- Solution Architect
- URLs
  - github.com/ru-rocker
  - www.ru-rocker.com
  - https://www.linkedin.com/in/rickymartaputra/



SPEAKER #2

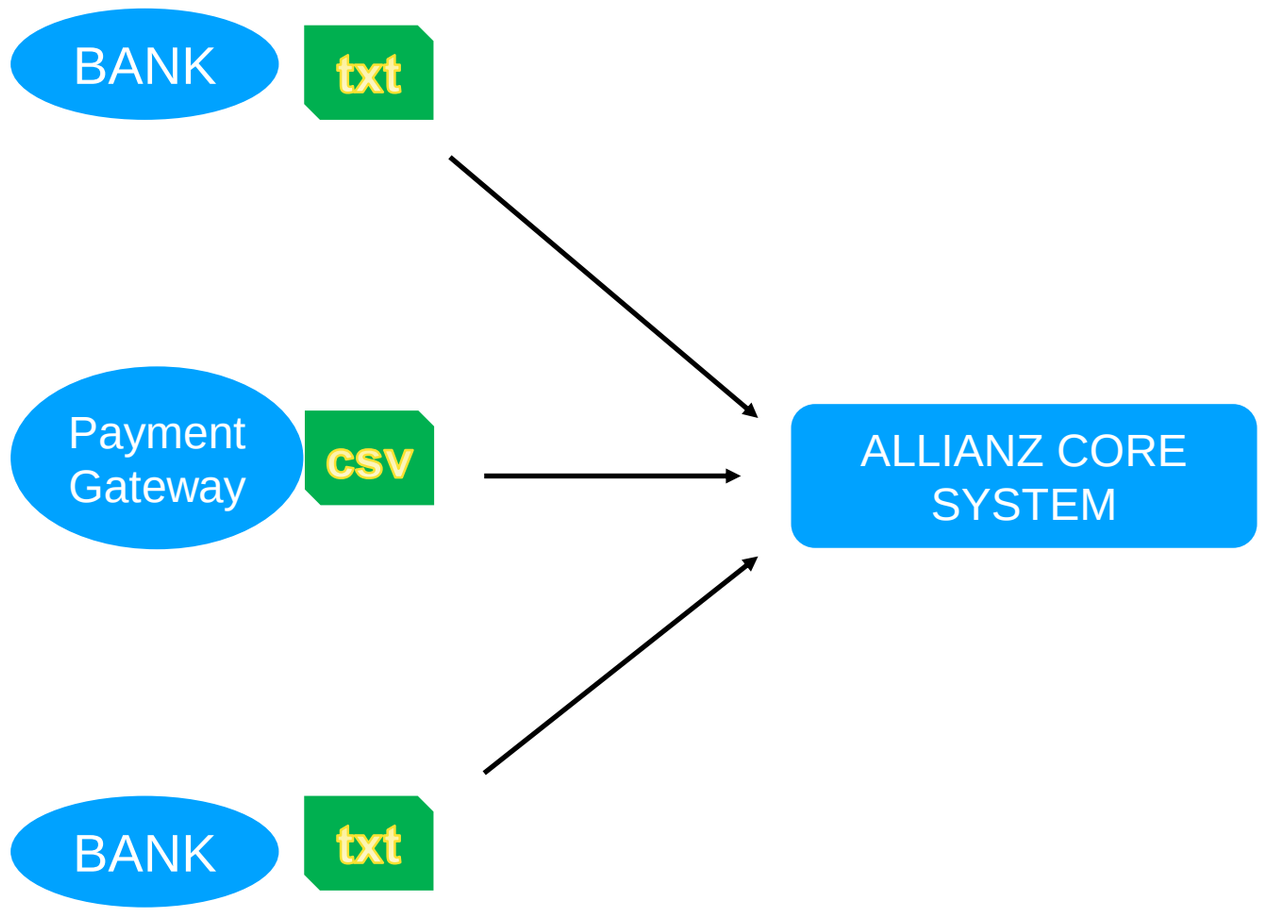
- Software Engineer since 2002
- M.Finance Atmajaya – 2013
- URLs
  - https://www.linkedin.com/in/mjwahyudi/
  - https://gitlab.com/users/mjwahyudi/

ATM
RECEIPT
CARD

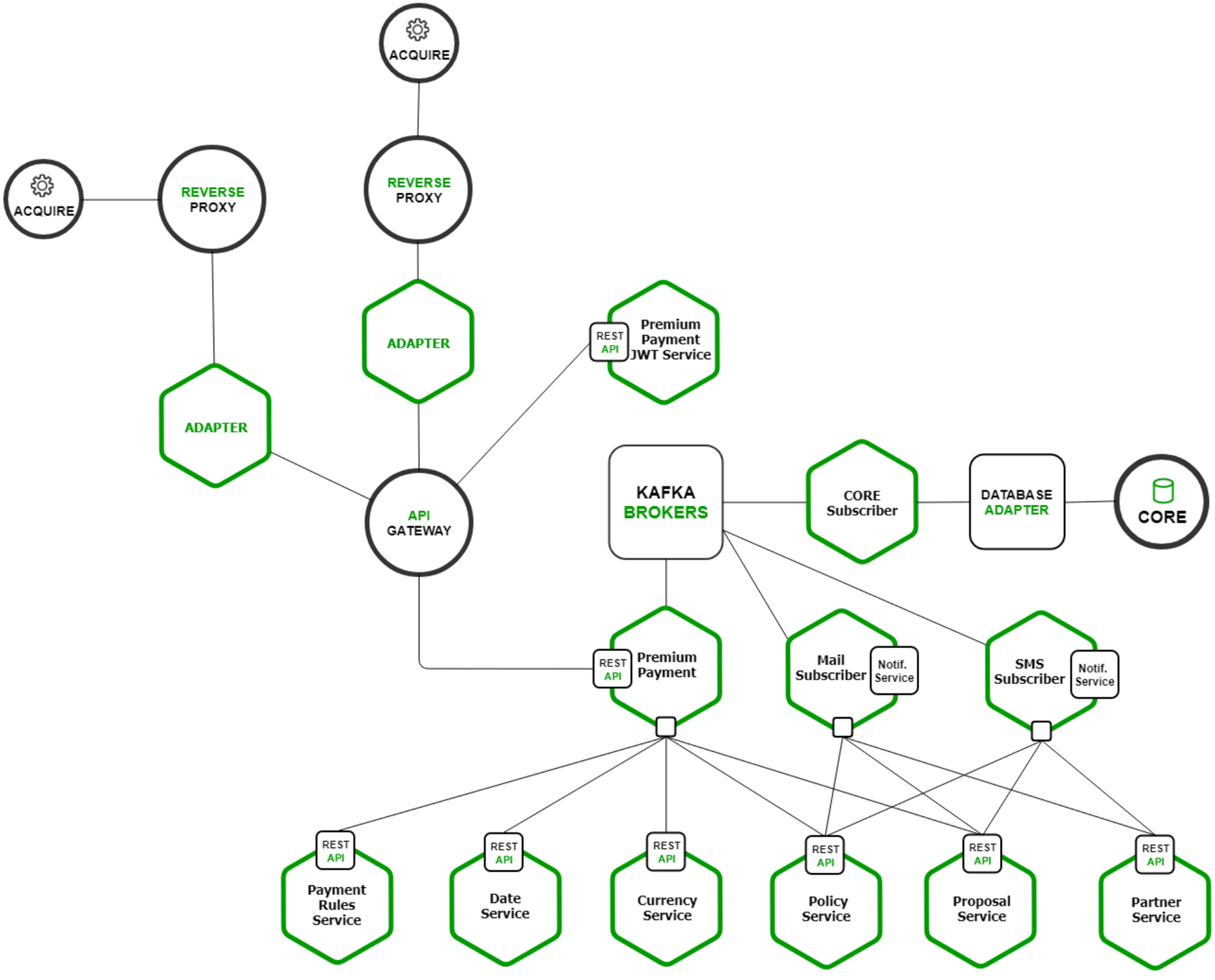
REWARDS
VISA
MasterCard
VISA

TRADITIONAL PAYMENT

- Insurance sent data to bank
- Bank received payment
- Bank sent payment data back to insurance company
- Insurance process payment data



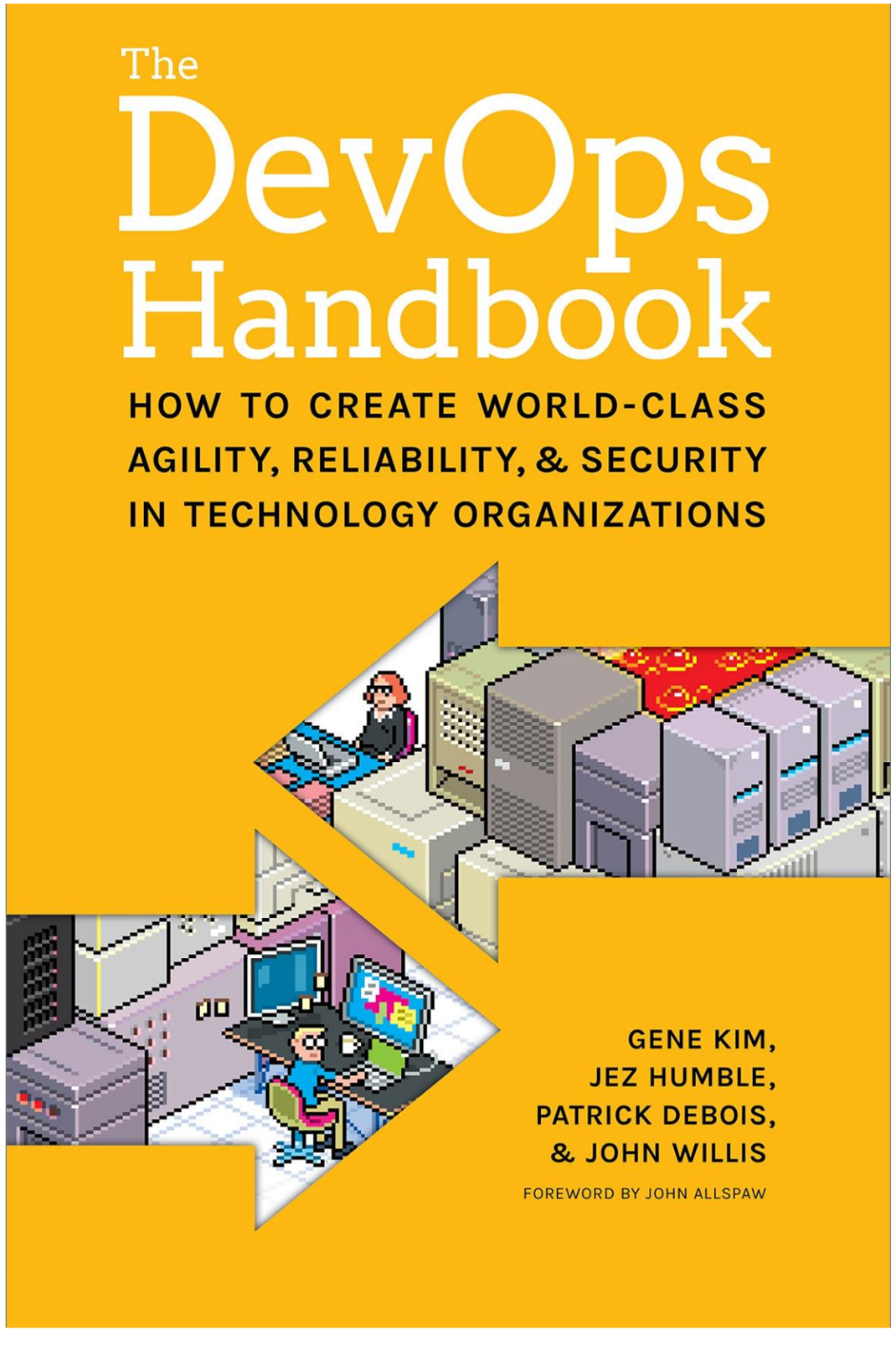
NEW APPROACH

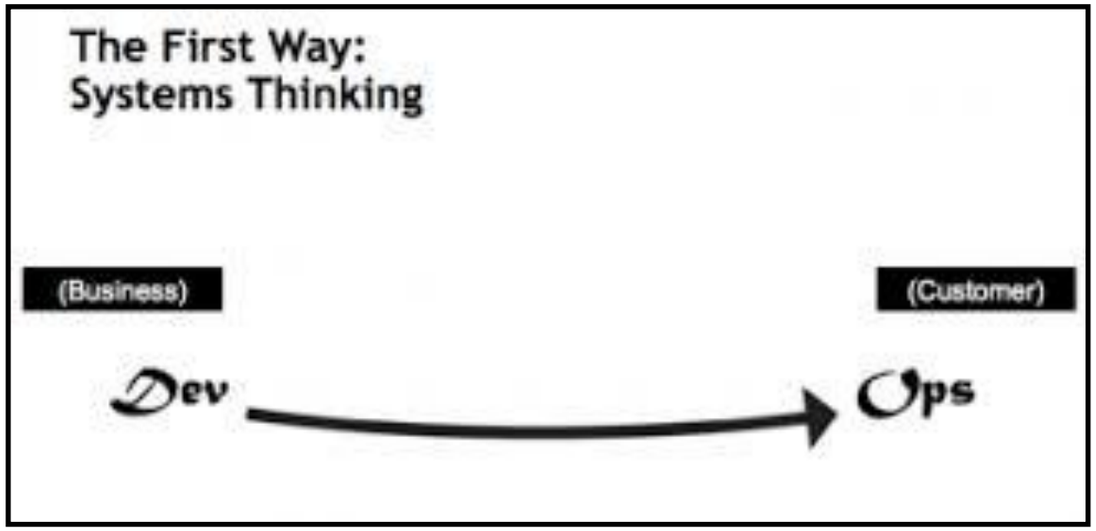


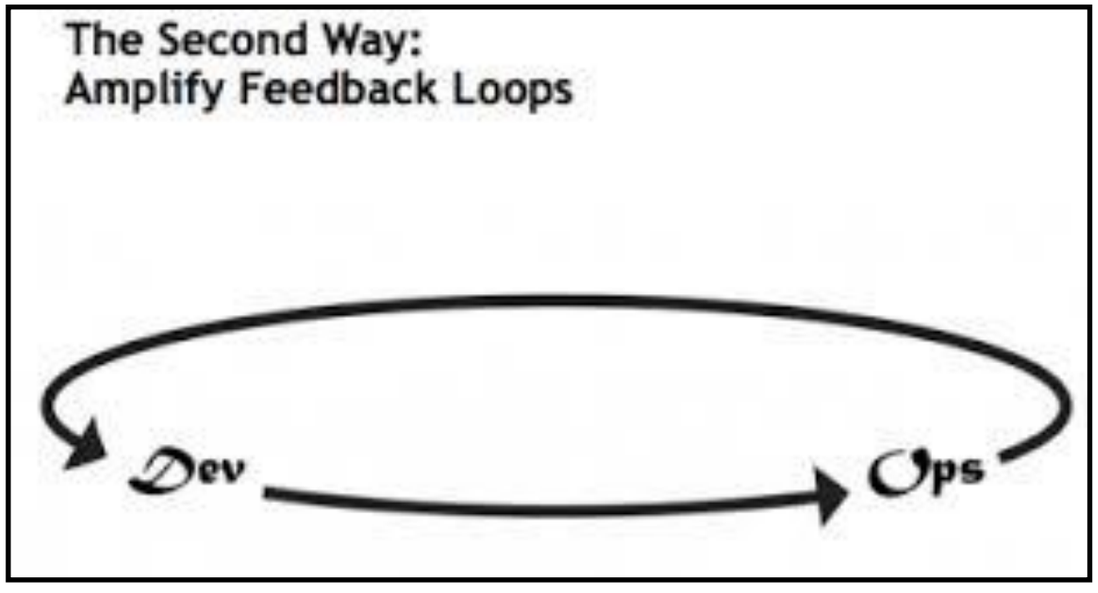
Don’t **MESS** with People’s Money

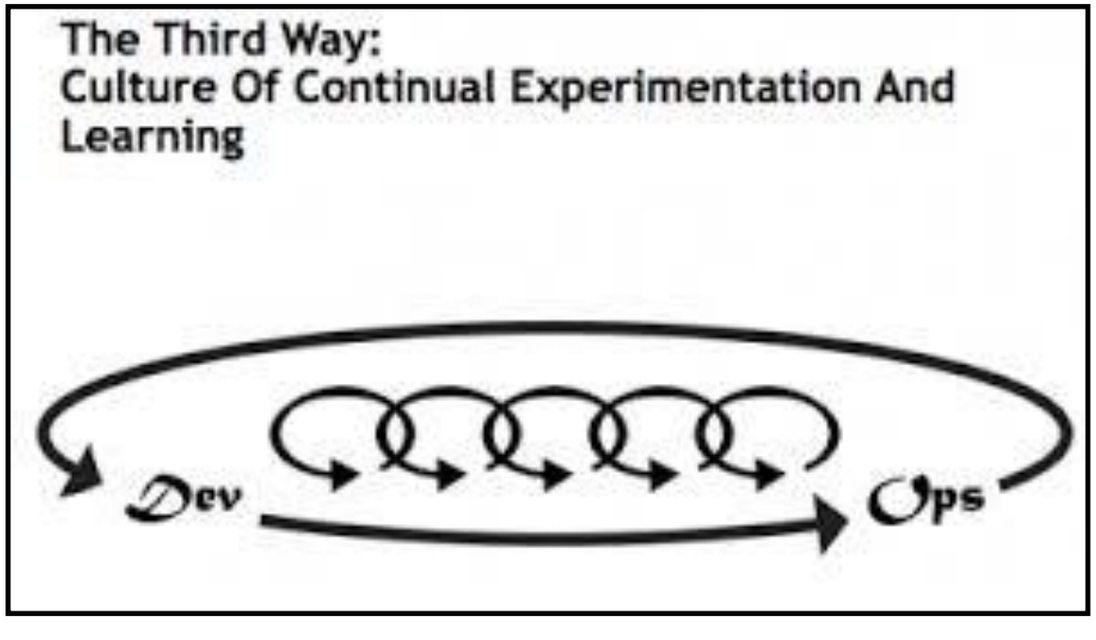
OPTICS your APPLICATION

- Transparent
- Effective
- Critical information about customer experience
- **HAPPY** customers are **PAYING** customers


The
DevOps
Handbook
HOW TO CREATE WORLD-CLASS
AGILITY, RELIABILITY, & SECURITY
IN TECHNOLOGY ORGANIZATIONS
GENE KIM,
JEZ HUMBLE,
PATRICK DEBOIS,
& JOHN WILLIS
FOREWORD BY JOHN ALLSPAW


The First Way:
Systems Thinking
(Business)
(Customer)
Dev
Ops

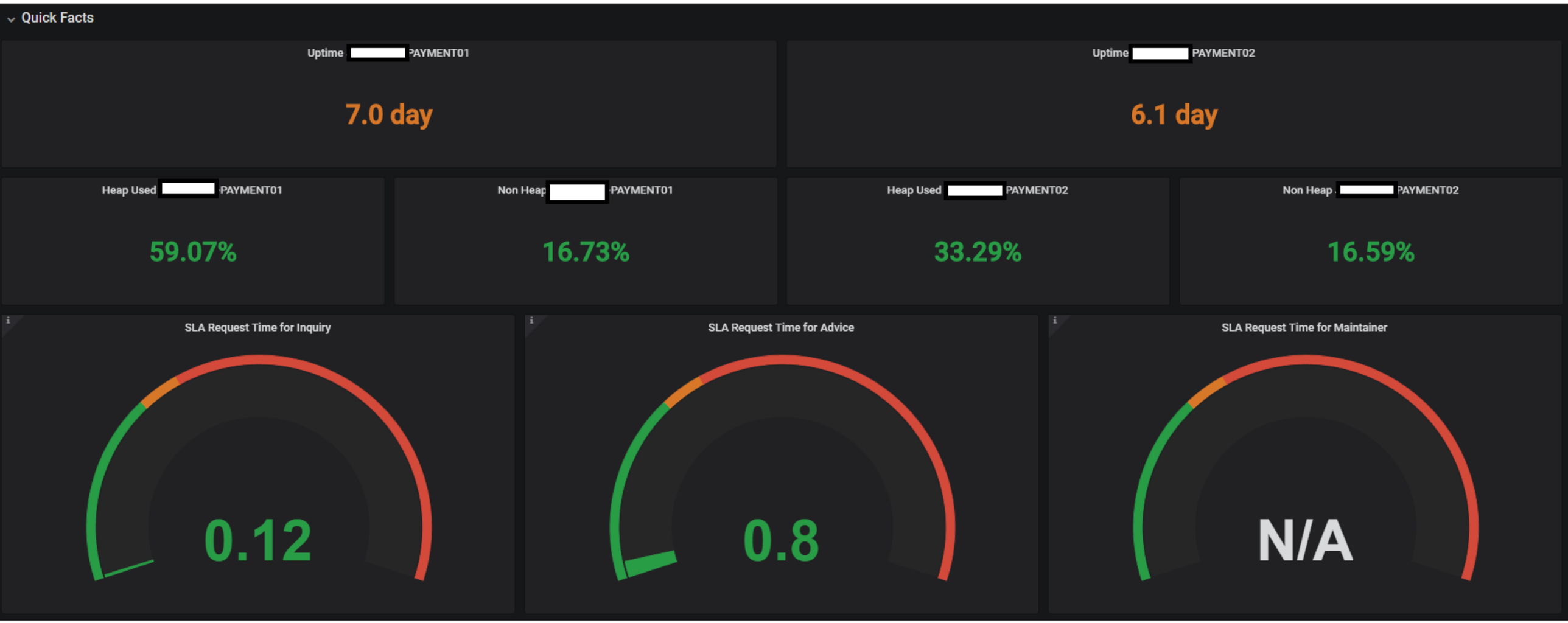

The Second Way:
Amplify Feedback Loops
Dev
Ops


The Third Way:
Culture Of Continual Experimentation And
Learning
Dev
Ops

MONITORING

- Provider: **Micrometer**
- Metrics and Alerting: **Prometheus**
- Dashboard: **Grafana**
- Log Aggregator **: ELK**

DASHBOARD


Quick Facts
Uptime [redacted]PAYMENT01
7.0 day
Uptime [redacted]PAYMENT02
6.1 day
Heap Used [redacted]PAYMENT01
59.07%
Non Heap [redacted]PAYMENT01
16.73%
Heap Used [redacted]PAYMENT02
33.29%
Non Heap [redacted]PAYMENT02
16.59%
SLA Request Time for Inquiry
0.12
SLA Request Time for Advice
0.8
SLA Request Time for Maintainer
N/A

Alerts

Show annotations

DISK_SPACE_EXHAUSTED (0 active)

FREE_MEMORY_EXHAUSTED (0 active)

HYSTRIX_CIRCUIT_OPEN (0 active)

ILLEGAL_ATTEMPT_FOR_ADVICE_REQUEST (0 active)

ILLEGAL_ATTEMPT_FOR_INQUIRY_REQUEST (0 active)

ILLEGAL_ATTEMPT_FOR_MAINTAINER_REQUEST (0 active)

INSTANCE_FTL_NODE_DOWN (0 active)

SLA_FOR_ADV_REQUEST_LATENCY (0 active)

SLA_FOR_INQ_REQUEST_LATENCY (0 active)

SLA_FOR_MAINTAINER_REQUEST_LATENCY (0 active)

TOO_MANY_ADVICE_REQUEST_ERROR (0 active)

TOO_MANY_INQUIRY_REQUEST_ERROR (0 active)

TOO_MANY_MAINTAINER_REQUEST_ERROR (0 active)

Study Case #1

April 25th 2018, 20:16:38.224 RecordPtdAdviceListener.onPostInquiry [policyRef: [redacted] and requestId: [redacted]]

April 25th 2018, 20:16:38.225 PaymentPtdBusinessImpl.findPaymentPtd [policyRef: [redacted] , businessEntity: [redacted] and requestId: null

April 25th 2018, 20:16:38.226 PaymentPtdBusinessImpl.save [policyRef: [redacted] and requestId: null

April 25th 2018, 20:16:38.228 PaymentAdviceSourceBean$$EnhancerBySpringCGLIB$$451e0cf6.publishPaymentAdvice [billingKey: [redacted] and requestId: [redacted]]

April 25th 2018, 20:16:38.228 LifeAdviceMessagingListener.onPostInquiry [policyRef: [redacted] and requestId: [redacted]]

April 25th 2018, 20:16:38.230 PremiumPaymentService.savePaymentAdvice [billing key: [redacted] and requestId: [redacted]]

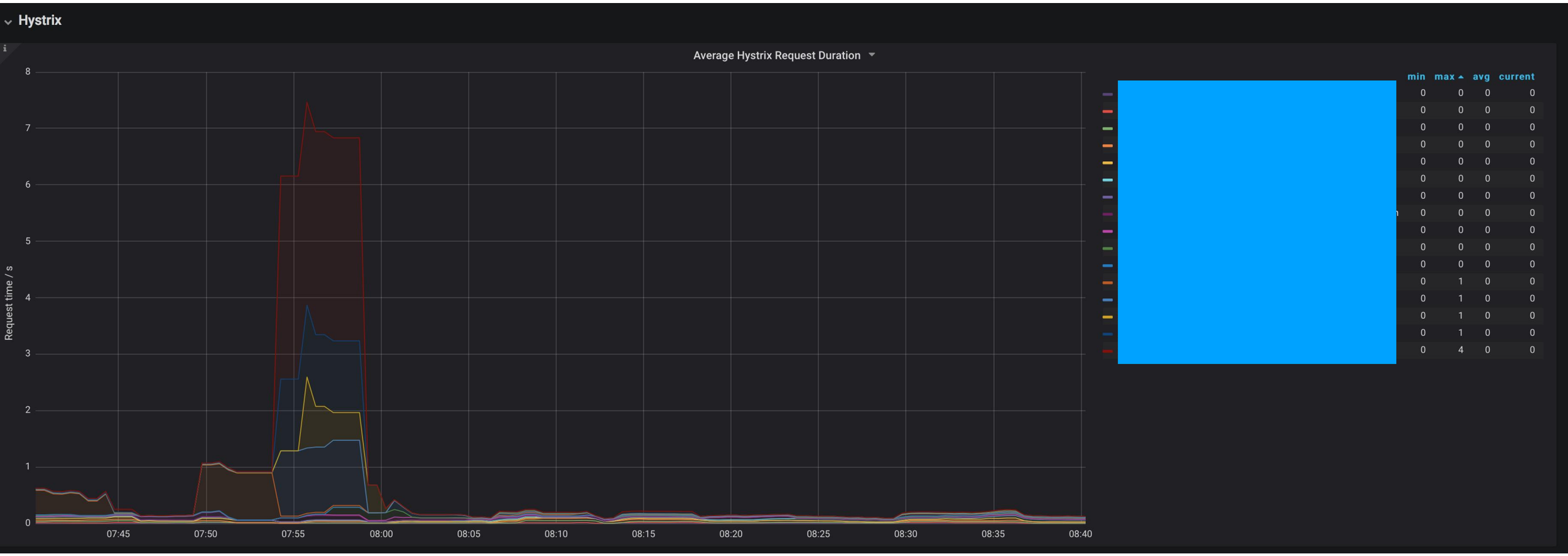
April 25th 2018, 20:16:38.230 PaymentInquiryBusiness.save [policyRef: [redacted] and requestId: [redacted]]

April 25th 2018, 20:17:05.269 LifeAdviceRenewalClearCacheListener.onPostInquiry [policyRef: [redacted] and requestId: [redacted]]

April 25th 2018, 20:17:05.270 LifeAdviceNewBusinessClearCacheListener.onPostInquiry [policyRef: [redacted] and requestId: [redacted]]

April 25th 2018, 20:17:05.271 AdviceController.requestAdvice [billingKey: [redacted]] FINISHED

Study Case #2


Hystrix
Average Hystrix Request Duration
Request time / s
8
7
6
5
4
3
2
1
0
07:45
07:50
07:55
08:00
08:05
08:10
08:15
08:20
08:25
08:30
08:35
08:40
min
max
avg
current

CONCLUSION

- Act based on **DATA** as **EARLY** as **POSSIBLE**

- BECAUSE UP IS NOT ENOUGH

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