

DevOps Pay Raise

Quantifying your value to move up the ladder

BERLIN

INTERNATIONAL
SOFTWARE DEVELOPMENT

CONFERENCE 2013

goto;
conference

Training: Oct 15-16 / Conference: Oct 17-18

A man with short dark hair, smiling, wearing a red and white plaid shirt. He is sitting at a desk with a yellow and red toy in front of him. The background shows a bookshelf and a window with a striped curtain.

TOM LEVEY

Tech Evangelist

 AppDynamics

 @tlevey

DevOps?

Developers working
together with
Operations to get
things done **faster** in
an **automated** and
repeatable way

**DevOps
Success?**

2005

Portal-services
& handset testing

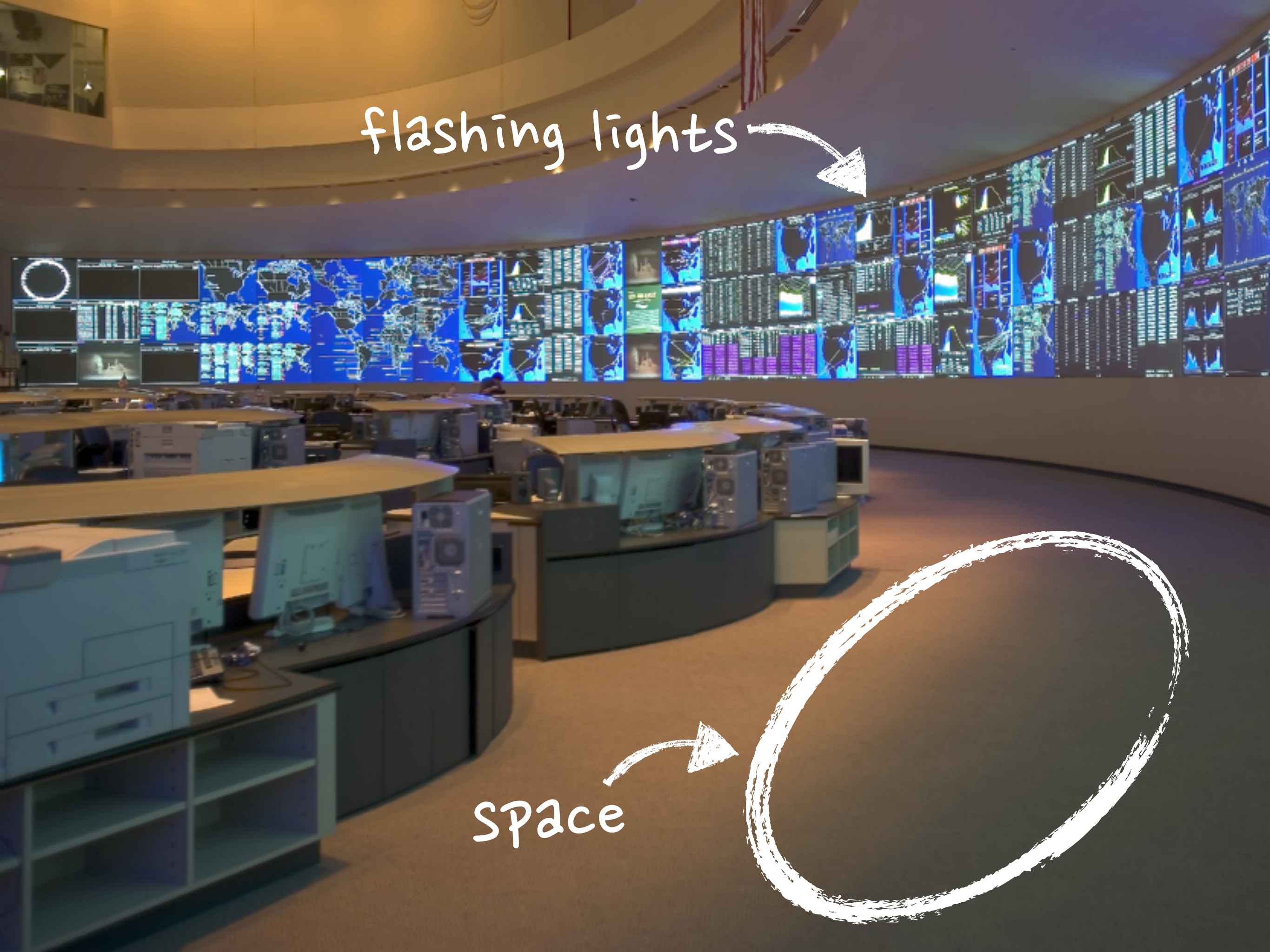




my desk

flashing lights

space

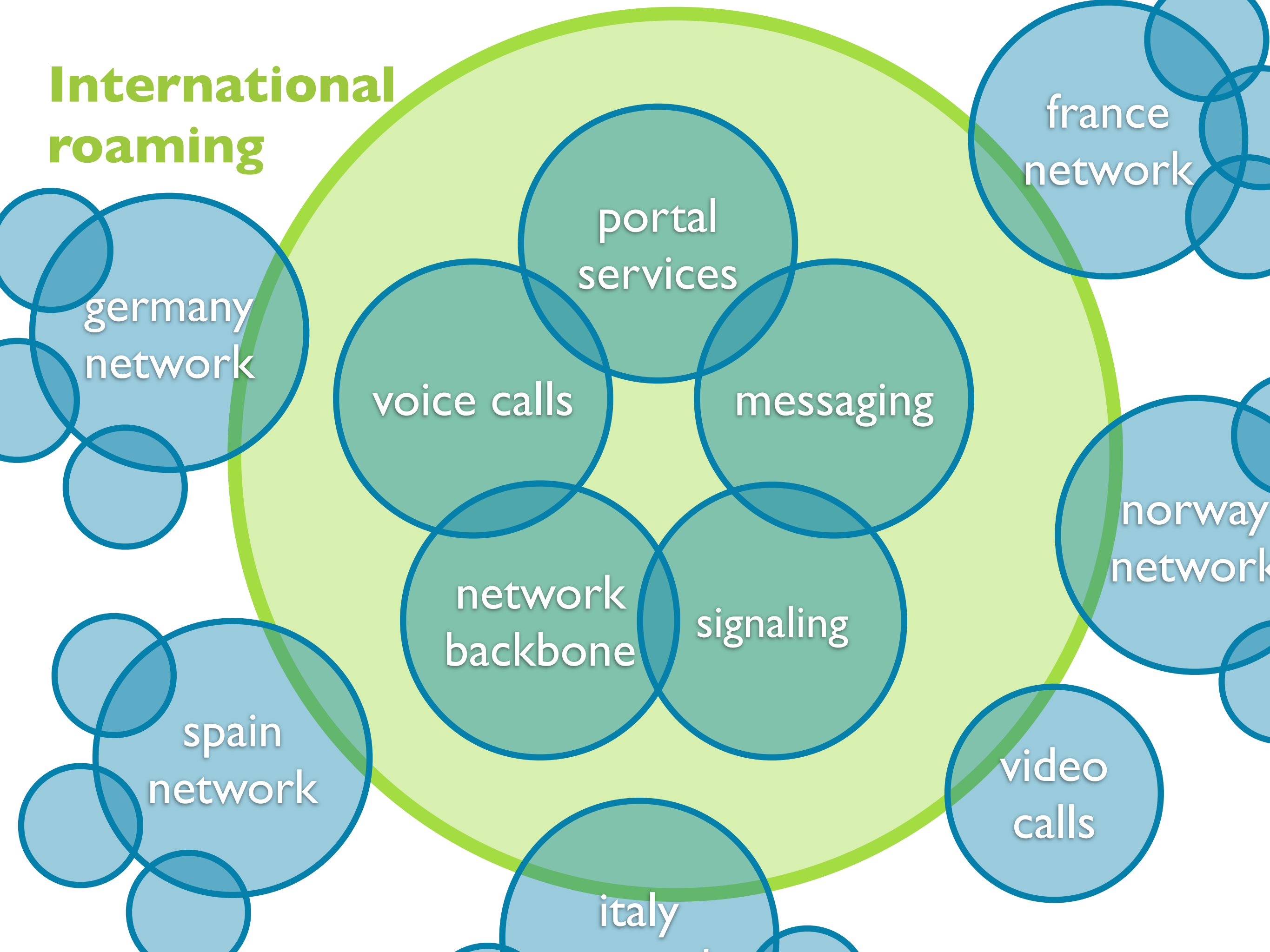




IREG

**International Roaming
Expert Group**

International roaming



Runbook

1. Call L2 ops team
2. Call infrastructure ops
3. Call signaling partner
4. Call radio ops
5. Call backbone provider
6. Call international L2 ops team
7. Wait for reply...
8. Repeat 1-7 until resolution

WORKED FINE IN DEV



OPS PROBLEM NOW



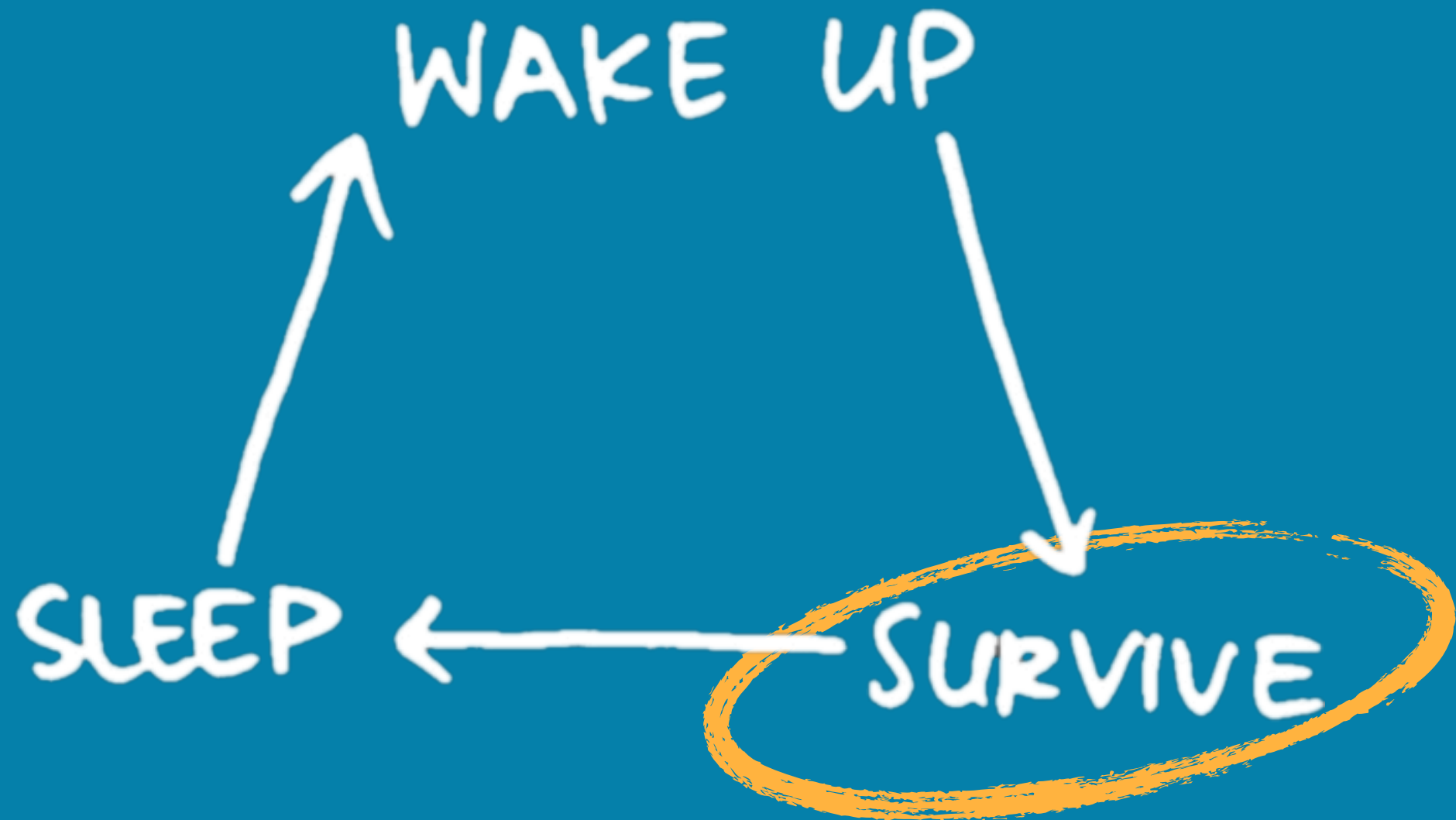
OPS:

**“Everything is
fine from our
end.”**

Typical Day

1. Open 30 new tickets
2. Make 200 phone calls
3. Attend executive P1 status update meeting
4. Argue about what a P1 and P2 really is
5. Reprioritize P2 tickets to P1
6. Reprioritize P3 tickets to P2
7. Close tickets as '*Cannot reproduce*' or '*Duplicate*'

What did I care about?



What did I really care about?



PI's

SLA's



What did the Business care about?



PI = €

Even though the business could never prove it.

How the **Business** really viewed me



How L2 & L3 Support viewed me



How Ops & Partners viewed me



False Alarms

404 Errors



Site is
down

My search
is slow

2am Friday - #FFS



We have had an alert that the load on one of your staging servers is critical.

How much time do false alarms waste?

Role	Hours Per Week	Cost Per Week	Cost Per Year
Me	20	€400	€20,800
L2	10	€200	€10,400
L3	15	€300	€15,600
Hosting	6	€120	€6240
Network	6	€120	€6240
CMS	10	€200	€10,400
Total	55	€1,340	€69,680

Conservative estimates assuming €20/hour

How much revenue did the business lose?



Typical Day

1. Open 30 new tickets
2. Make 300 phone calls
3. Attend executive P1 status update meeting
4. Argue about what a P1 and P2 really is
5. Reprioritize P2 tickets to P1
6. Reprioritize P3 tickets to P2
7. Close tickets as '*Cannot reproduce*' or '*Duplicate*'

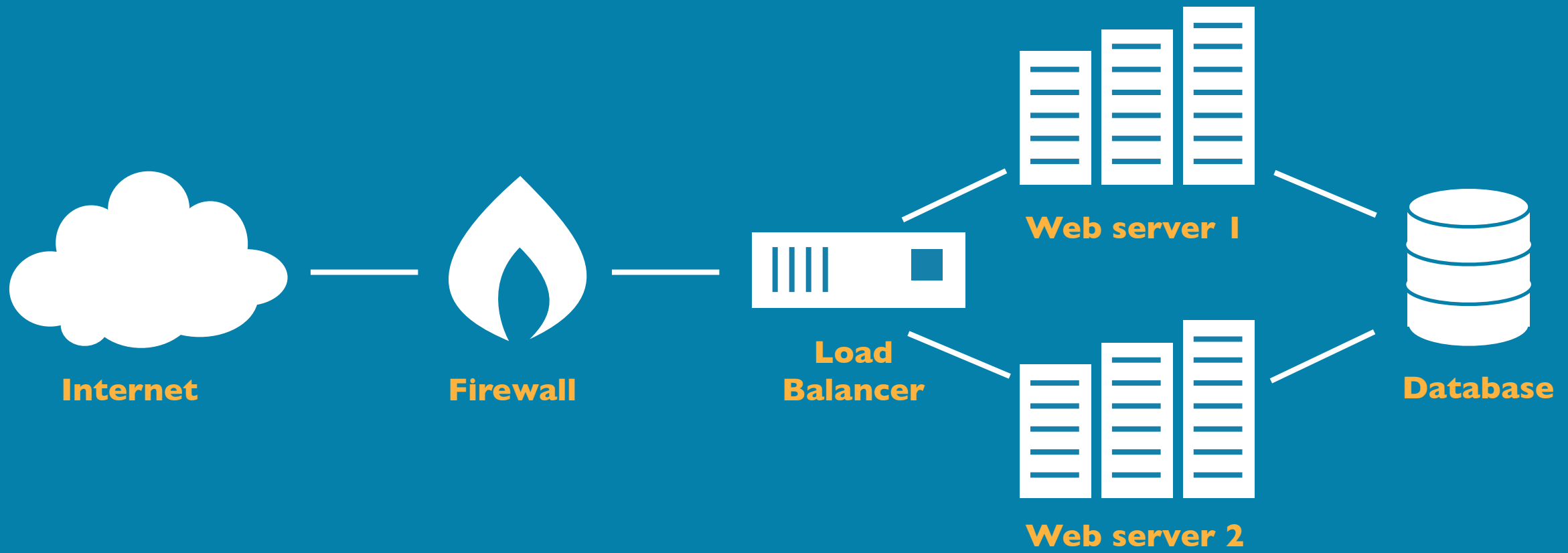
Things I wish I'd had

1. Automation
2. Collaboration
3. Better Tooling
4. Business Metrics

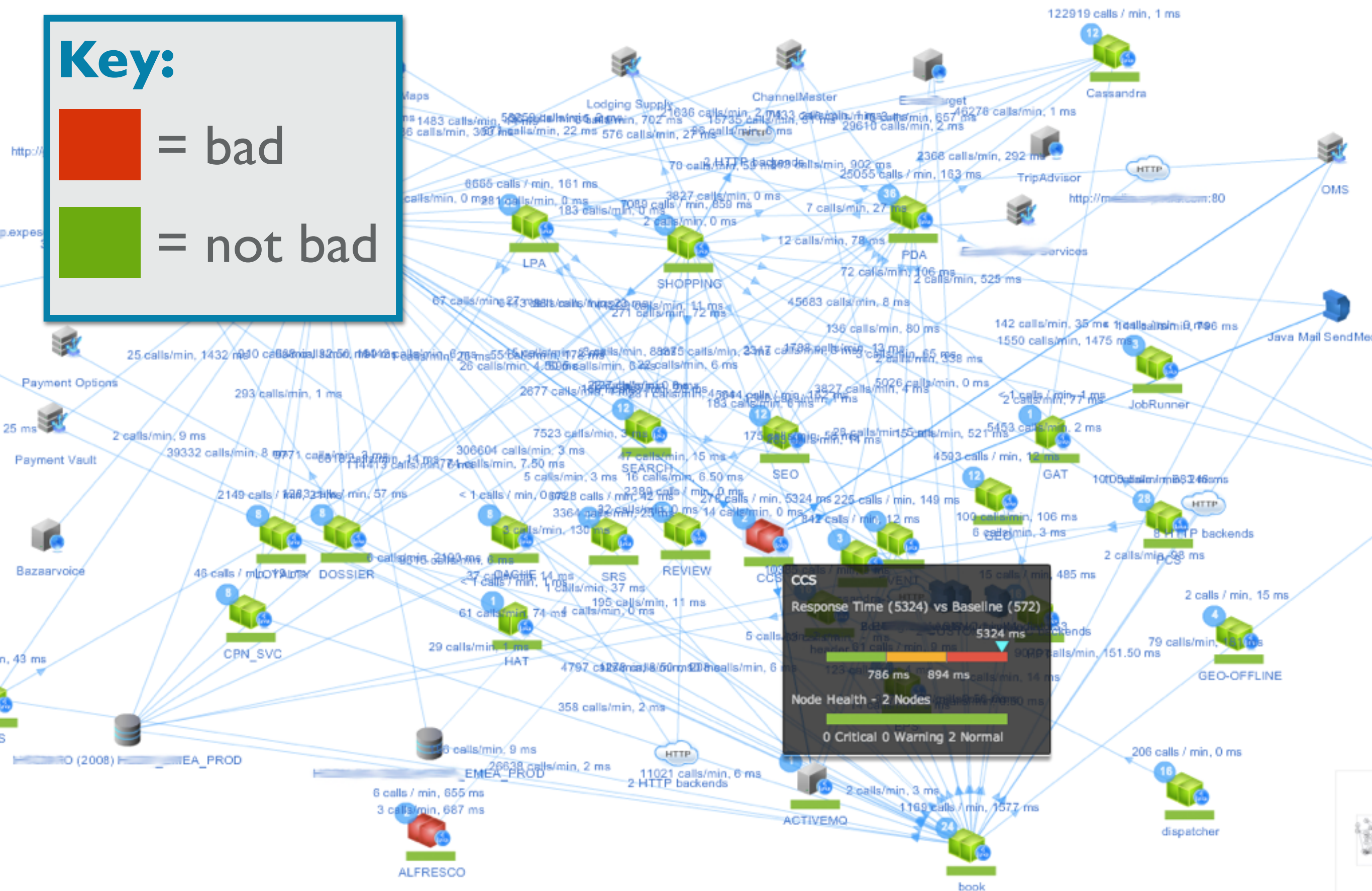
Things I wish I'd done

1. Baseline where I started
2. Measured my progress
3. Calculated Business Impact
4. Promote success not problems
5. Proved my value

Present Day

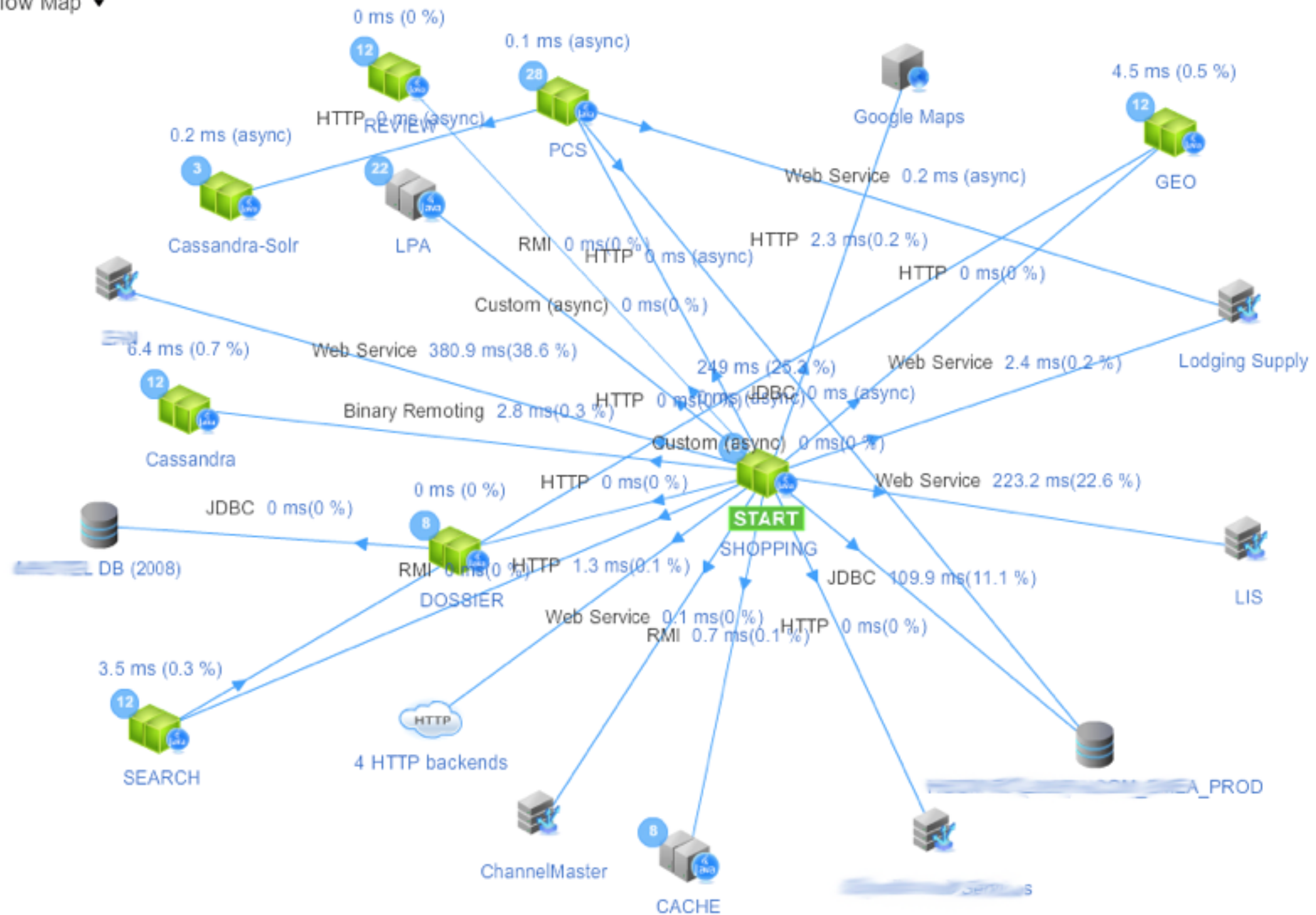


= not bad

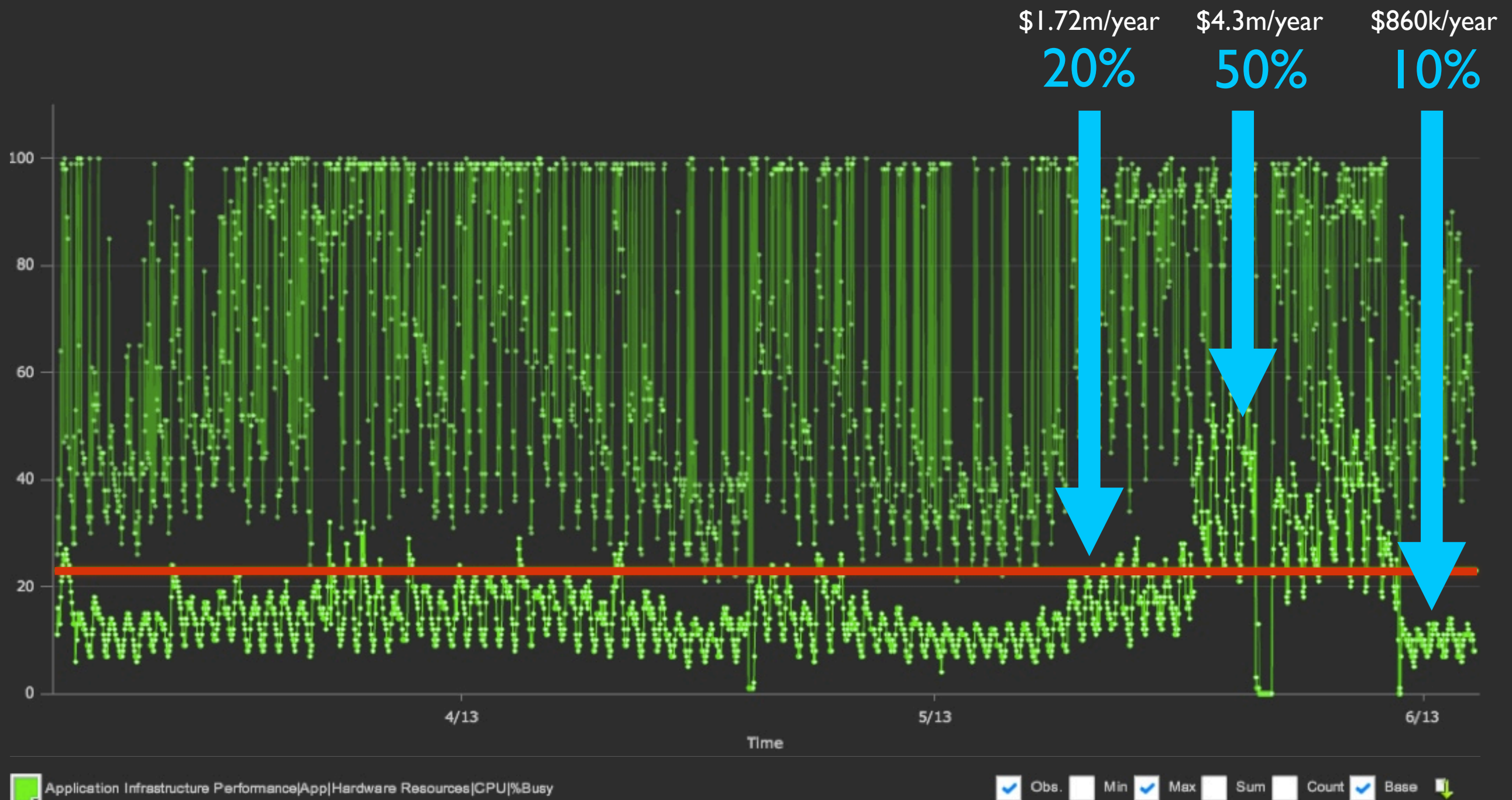


A simple travel search...

Flow Map ▼



How much are you going to **spend** in the Cloud?



Assume \$1 per server/hour and 1,000 Servers for the application.

tools can be helpful



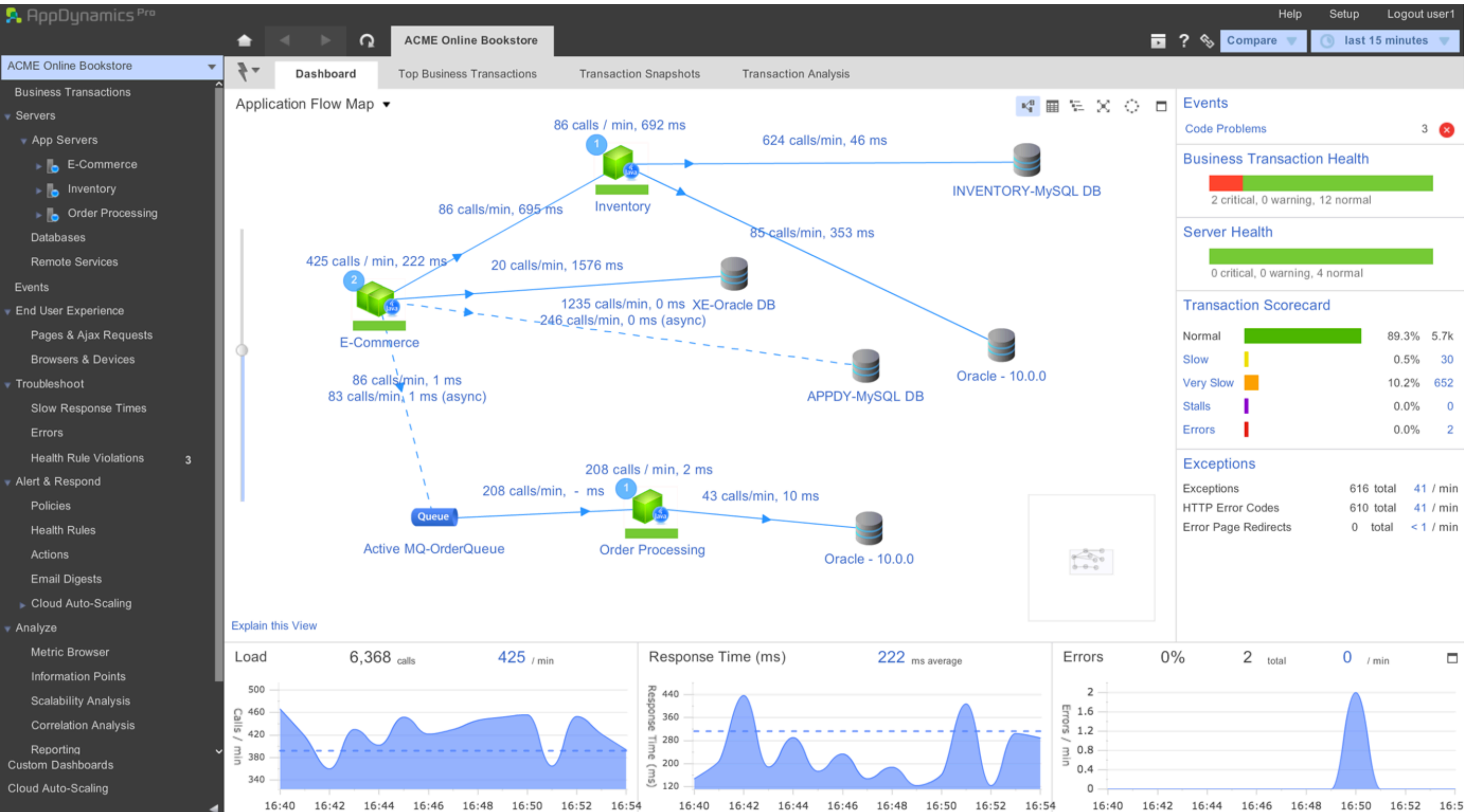
right tools

right hands

right use



Automatically map your application



Executed code diagnostics



Call Drill Down. Exe Time: 10355 ms Timestamp: 07/10/13 16:58:18 BT: Checkout GUID: bae1191d-86af-44c2-a593-e429bfabd5af

SUMMARY

PARTIAL CALL GRAPH

HOT SPOTS

SQL CALLS

HTTP PARAMS

COOKIES

USER DATA

ERROR DETAILS

HARDWARE / MEM

NODE PROBLEMS

ADDITIONAL DATA

Execution Time: 10355 ms. Node E-Commerce-Node-8000 . Timestamp: 07/10/13 16:58:18 .

Set as Root

Reset Root (?)

Show Filters

Search

This is a Partial Call Graph ?

Name	Time (ms)	Exit Calls / Threads *
java.lang.Thread:run:679	0 ms (self) 0 %	
StrutsActionProxy:execute:50	0 ms (self) 0 %	
Struts Action - ViewCart:sendItems:186	0 ms (self) 0 %	
Proxy For Spring Bean - cartServiceTarget:checkOut	0 ms (self) 0 %	
Proxy For Spring Bean - cartServiceTarget:invoke	0 ms (self) 0 %	
Spring Bean - cartServiceTarget:checkOut:40	0 ms (self) 0 %	
Spring Bean - soapUtil:raisePO:28	0 ms (self) 0 %	
com.appdynamics.inventory.OrderServicePortTypeProxy:createOrder:54	0 ms (self) 0 %	
com.appdynamics.inventory.OrderServiceSOAP11BindingStub:createOrder:158	10345 ms (self) 99.9 %	Web Service
Spring Bean - messageProducer:sendMessageWithOrderId:30	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:send:469	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:send:477	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:execute:430	0 ms (self) 0 %	
Proxy For Spring Bean - proucerJmsTemplate:doInJms:479	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:doSend:513	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:doSend:536	1 ms (self) 0 %	JMS
Spring Bean - messageProducer:sendTextMessageWithOrderId:43	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:send:469	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:send:477	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:execute:430	0 ms (self) 0 %	
Proxy For Spring Bean - proucerJmsTemplate:doInJms:479	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:doSend:513	0 ms (self) 0 %	
Spring Bean - proucerJmsTemplate:doSend:536	2 ms (self) 0 %	JMS

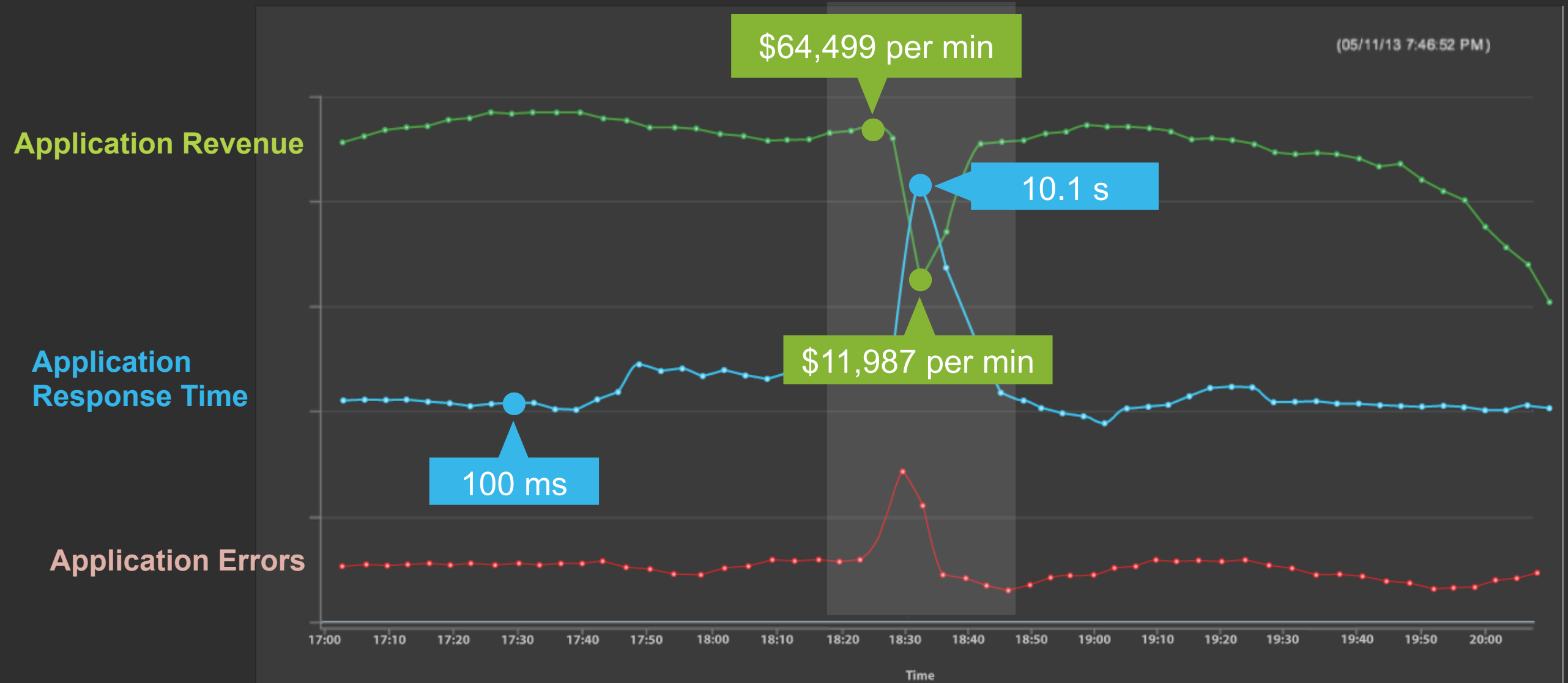
Export to PDF

Close

Some packages have been excluded from this Call Graph

* SQL Calls under 10ms are not shown here

Correlate business metrics with your metrics



* Screenshot from US e-Commerce AppDynamics Customer

Automation = ??

Time is Money.

Infrastructure automation



**How much time and €
do these tools save?**

Deployment automation



Jenkins



Capistrano

Fabric

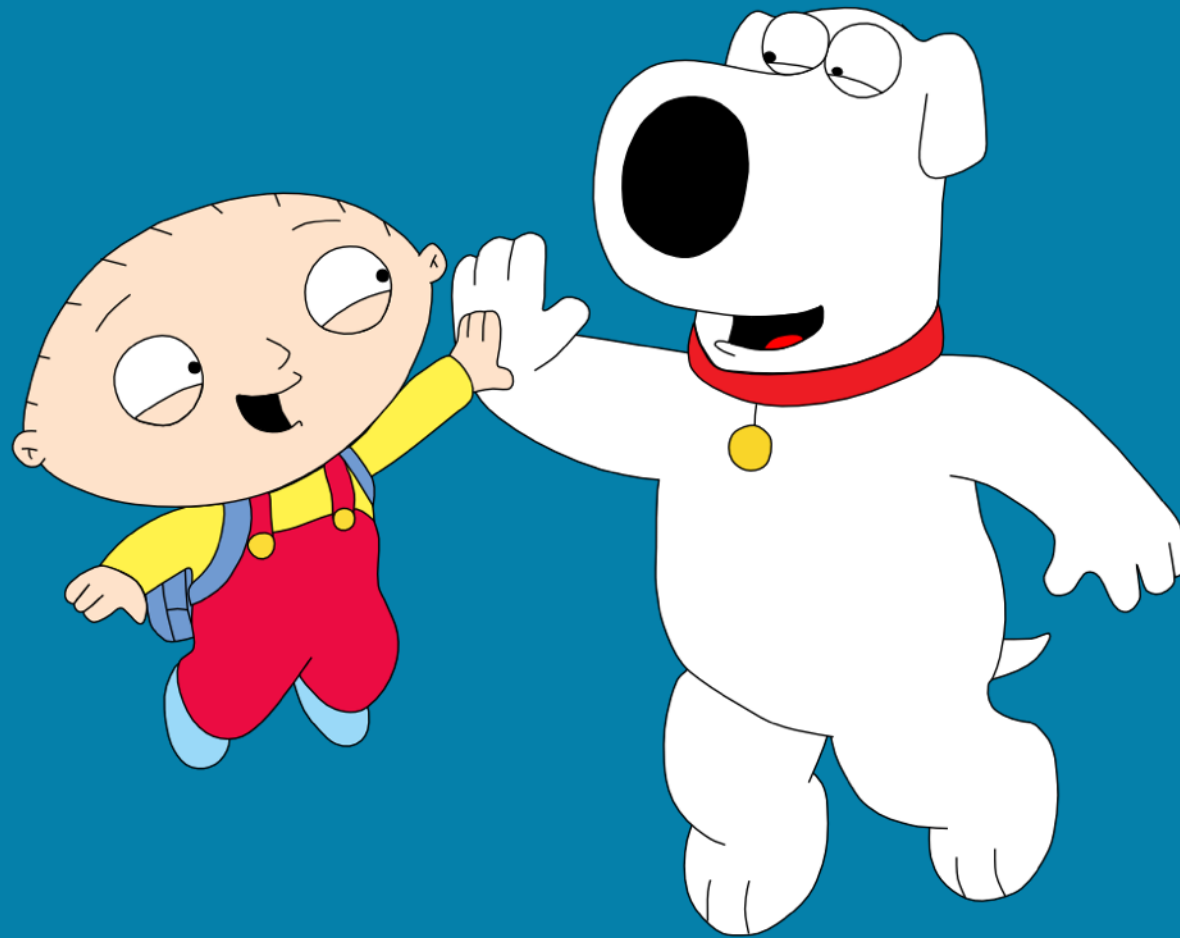
**How much time and €
do these tools save?**

Monitoring tools



**How much time and €
do these tools save?**

Collaboration = ??



Productivity saves time
Time is money.

DevOps Tasks	Annual Cost €	Annual Benefit €
Infrastructure Automation	?	?
Deployment Automation	?	?
Log Automation	?	?
Monitoring	?	?
Collaboration	Pride	?
Total	X	Y
Your DevOps Value	€ Y - X	

DevOps

Automation & collaboration = Time = Money

Tell the Business how much you save them.



Free trial: appdynamics.com/freetrial



BERLIN

INTERNATIONAL
SOFTWARE DEVELOPMENT

CONFERENCE 2013

goto;
conference

Training: Oct 15-16 / Conference: Oct 17-18