



Transactional Analytics Delivers Greater Visibility with End-to-End Monitoring - HPE AppPulse Trace
May 25, 2016

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Jim Copio Carolinas Chapter Leader BSM SIG Leader



## Today's Speakers



Eric Odell
AppPulse - Sr. Product Marketing
Manager
Hewlett Packard Enterprise



Dan luster
APM Sr. Technical Marketing
Manager
Hewlett Packard Enterprise



Udi Shagal AppPulse Product Manager Hewlett Packard Enterprise



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- Session Q&A:
   Please type questions in the Questions Pane



### Webinar Control Panel

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Questions





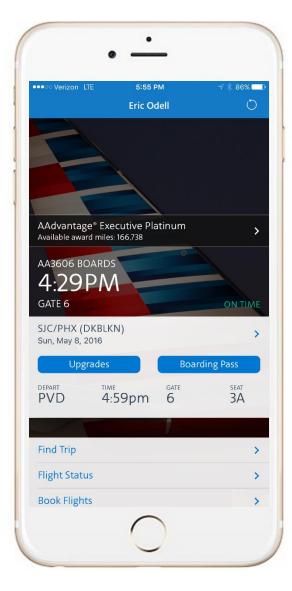


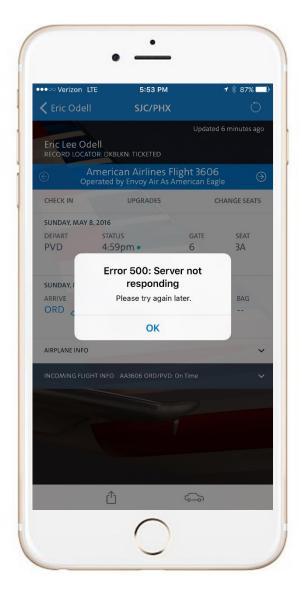
Transactional analytics delivers greater visibility with end-to-end monitoring

Eric Odell, Sr. Product Marketing Mgr Udi Shagal, Sr. Product Manager Dan luster, Sr. Technical Marketing Mgr.

# When good applications go bad...









#### Your company's day in the spotlight





#### Rising user expectations – How annoying can it be?





Jenny McCarthy · 2 days 20 hours ago

· · Chrome 46.0 on Windows

I have been unable to open american airlines web page for 24 hours? Is it reported as down?



Herb Doller - 2 March 2016 - 14:02

· · Firefox 44.0 on Windows

"Our system is having trouble. Please try again or come back later." was down yesterday ...



Elizabeth Raney Burman · 15 May 2016 - 20:35

· Safari 9.1 on Mac

I can't get to any AA page today. Couldn't get online last week either. I use Firefox for Mac. Note: AA lost a sale from me last week b/c of this. TOday I'm just trying to find out when my husband's plane will arrive. This is a fairly royal pain, and I am not a great fan of AA in the first place...



#### The cost of poor performing applications

# ComputerWeekly.com

# Poor application performance costs 1 in 3 enterprises over £1m per year

UK survey finds only 10% IT organizations have necessary performance testing & monitoring in place

### Users expect the world of your apps – Better give it to them

Rising user expectations

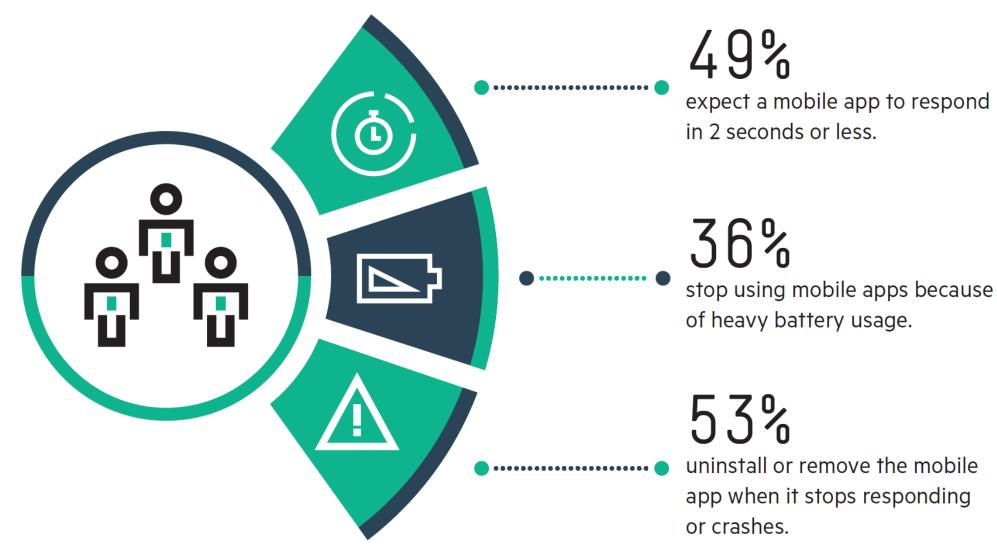
Will abandon apps after only three attempts or less

Say poor application issues give lower opinion of company that created

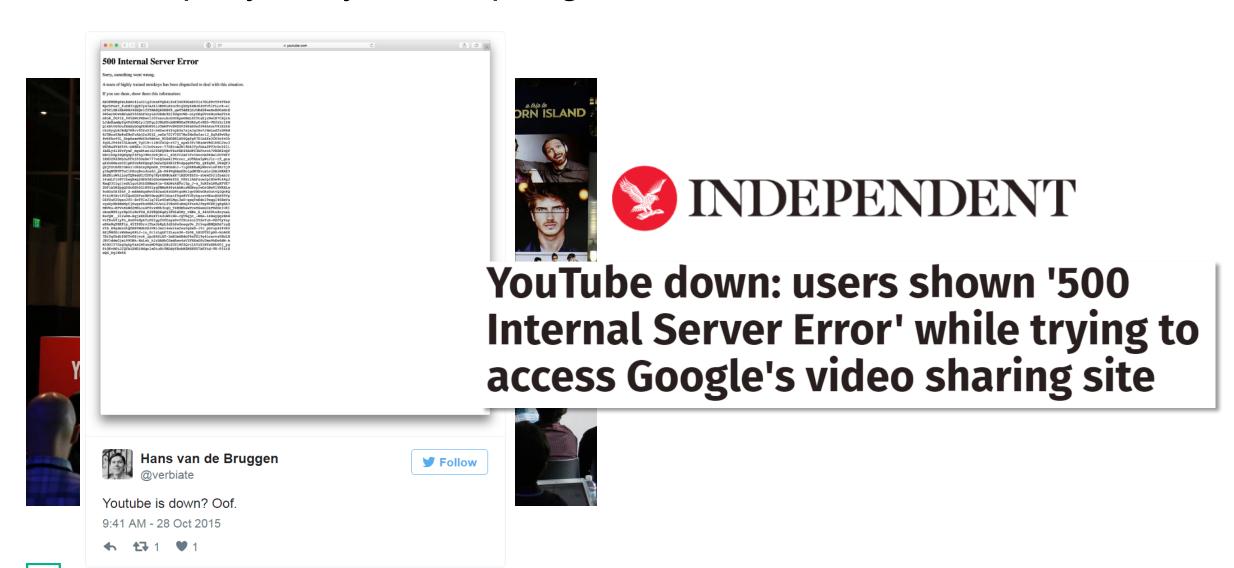




#### Give users a great experience – or they'll give you the finger



### Your company's day in the spotlight



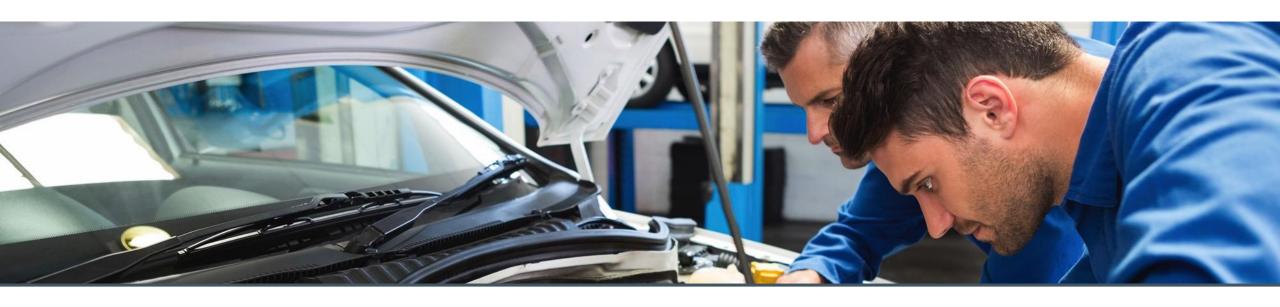
#### Bad user experience is no longer an option

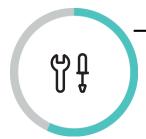


- How do you know what your real users are experiencing?
- How can you avoid customer attrition due to poor user experience?
- How can you protect your company brand and revenue?
- How can you find root cause quickly and reduce MTTR?
- How can you stop investing expensive resources in troubleshooting application problems?
- How can you protect YOUR job?

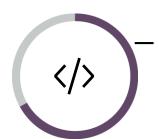


#### Do you have the right tools?

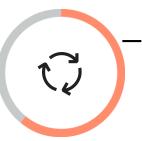




**57%** of DevOps teams lack Application Performance Monitoring (APM) tools featuring user experience dashboards



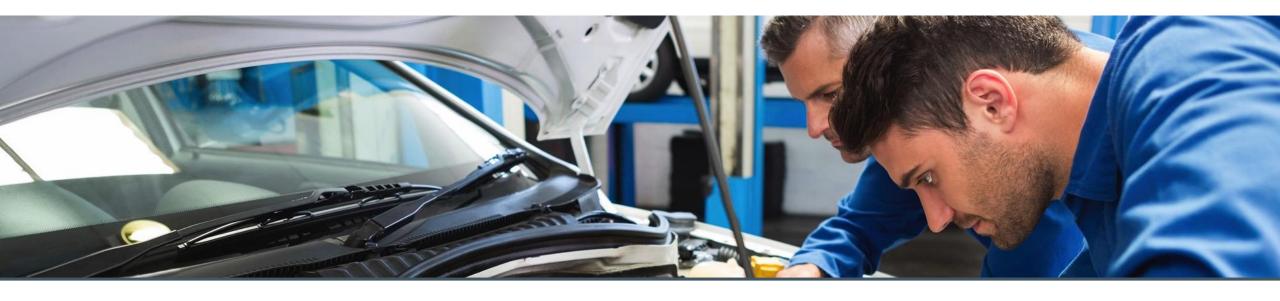
**67%** have no insight into the line of code that caused an error, slow performance or a crash



61% of developers are blind to the end-to-end process of monitoring the user experience



### Do you have the right tools?



#### What's wrong with today's APM tools?



Core products that don't cooperate.



Limited in their functionality.



No drill-down to the root cause of problems.



#### Who needs what?



#### IT Ops:

"I want to find and fix app issues before my users do."



#### **Business:**

"I have to achieve a 5-star rating for my mobile app."



#### DevOps:

"I need visibility to the root cause from user action to the line of code"



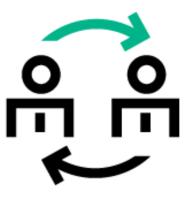
#### Introducing HPE AppPulse Suite for User Experience Transformation







End-to-End Visibility



**Built for DevOps** 



Integrated with Ops Bridge and APM

Synthetic Monitoring

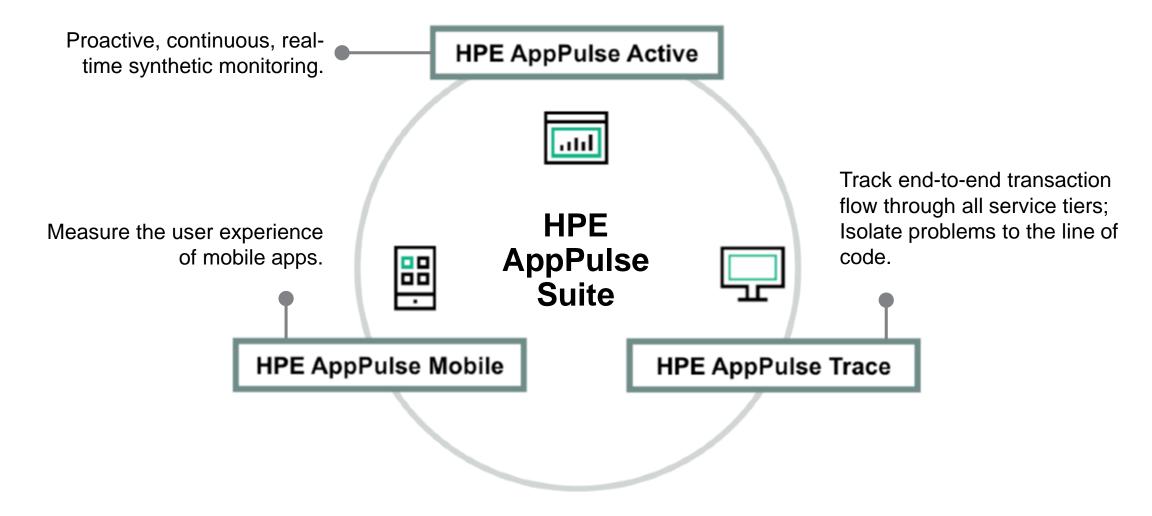
Real User Monitoring Application Performance Management

Transaction Analytics

Powered by HPE Vertica



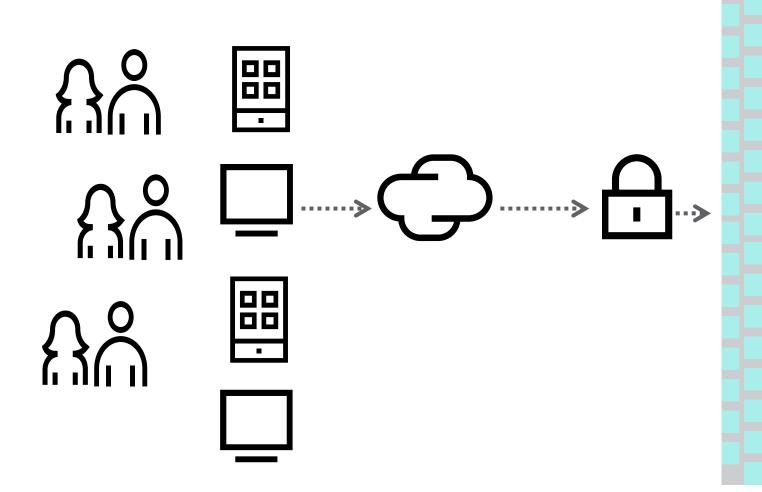
#### Introducing a smarter solution

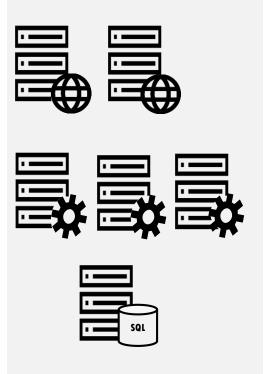


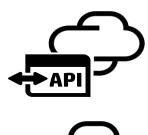
### **AppPulse Monitoring Architecture**



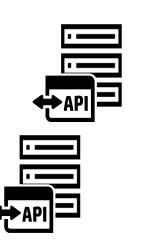
### **Monitoring Architecture**





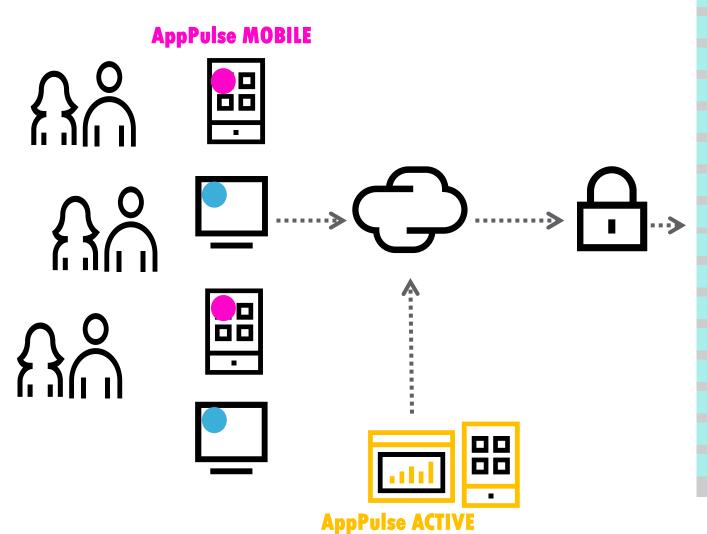


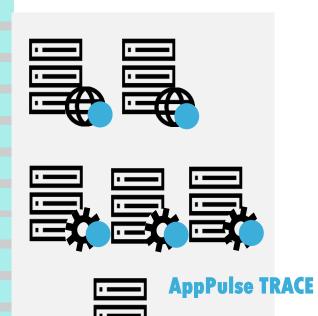


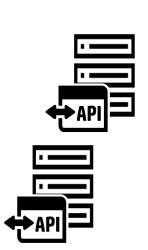




### Monitoring Architecture

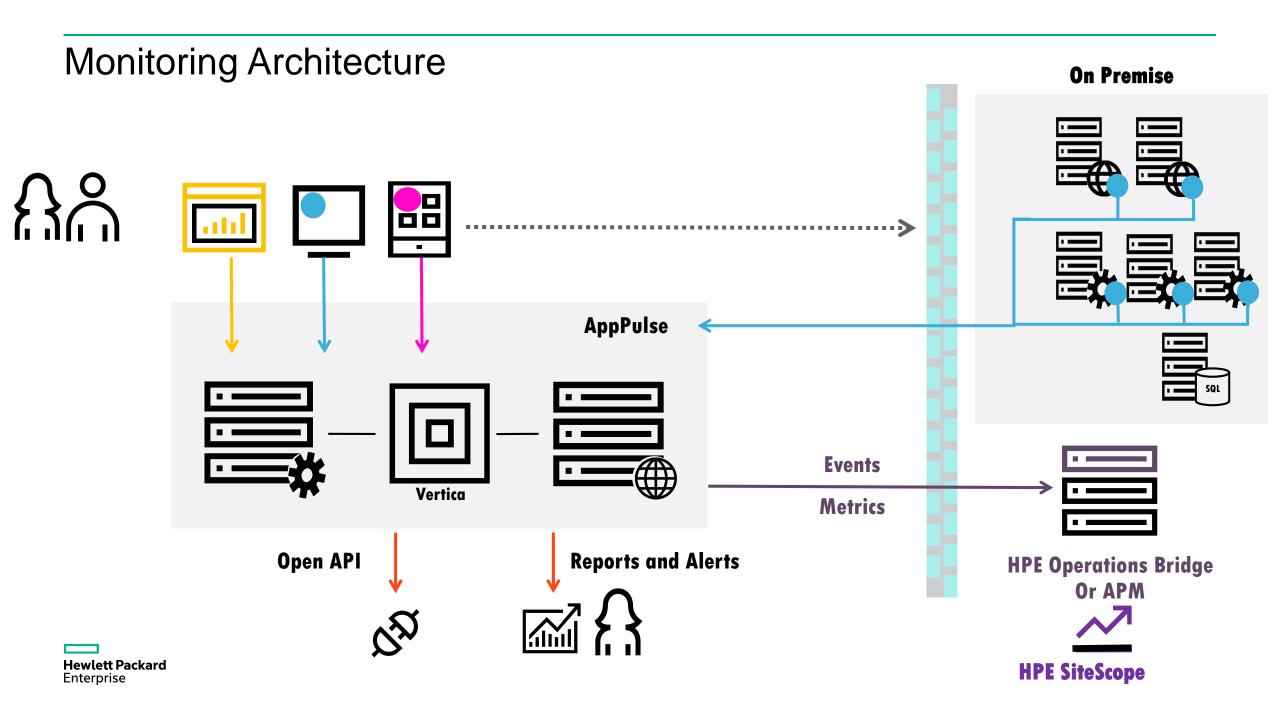












#### General Availability of AppPulse Trace Real User Monitoring & Transaction Tracing



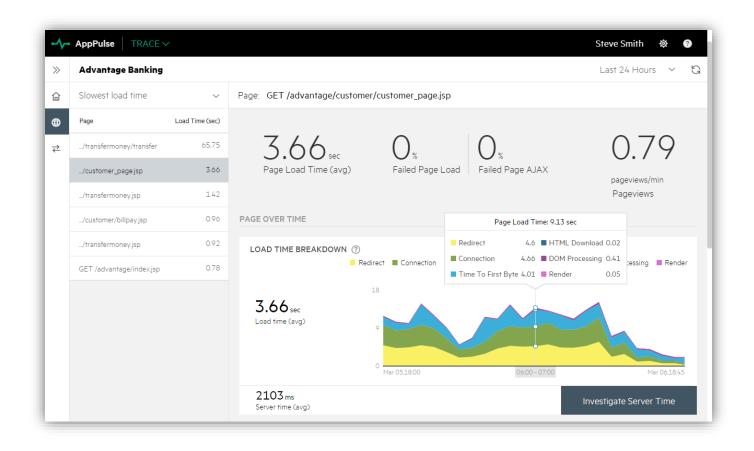








Tx Log
Analytics





### **AppPulse Trace**

Real User Monitoring and Transaction visibility

#### Mobile App Troubleshooting Using the AppPulse Suite



Lara S.

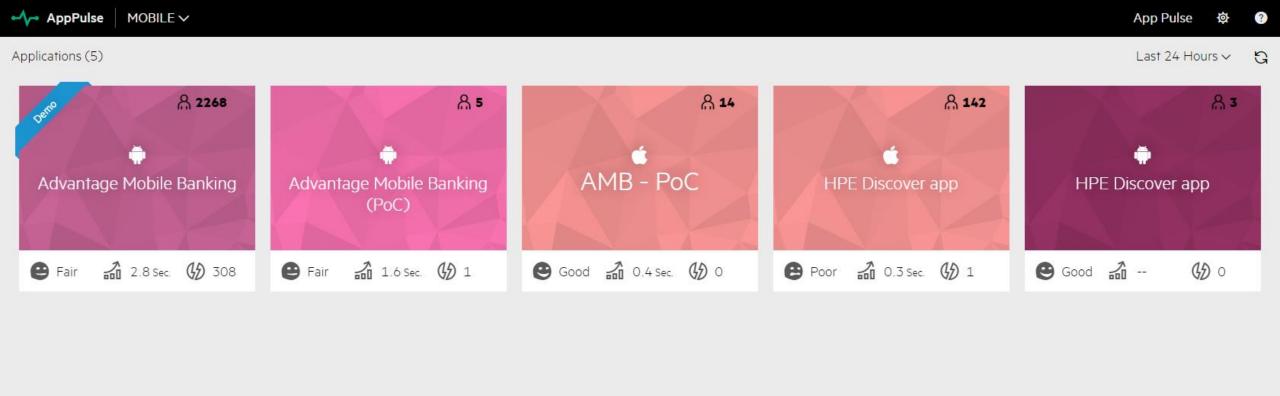
Android Developer
Online Banking Engineering

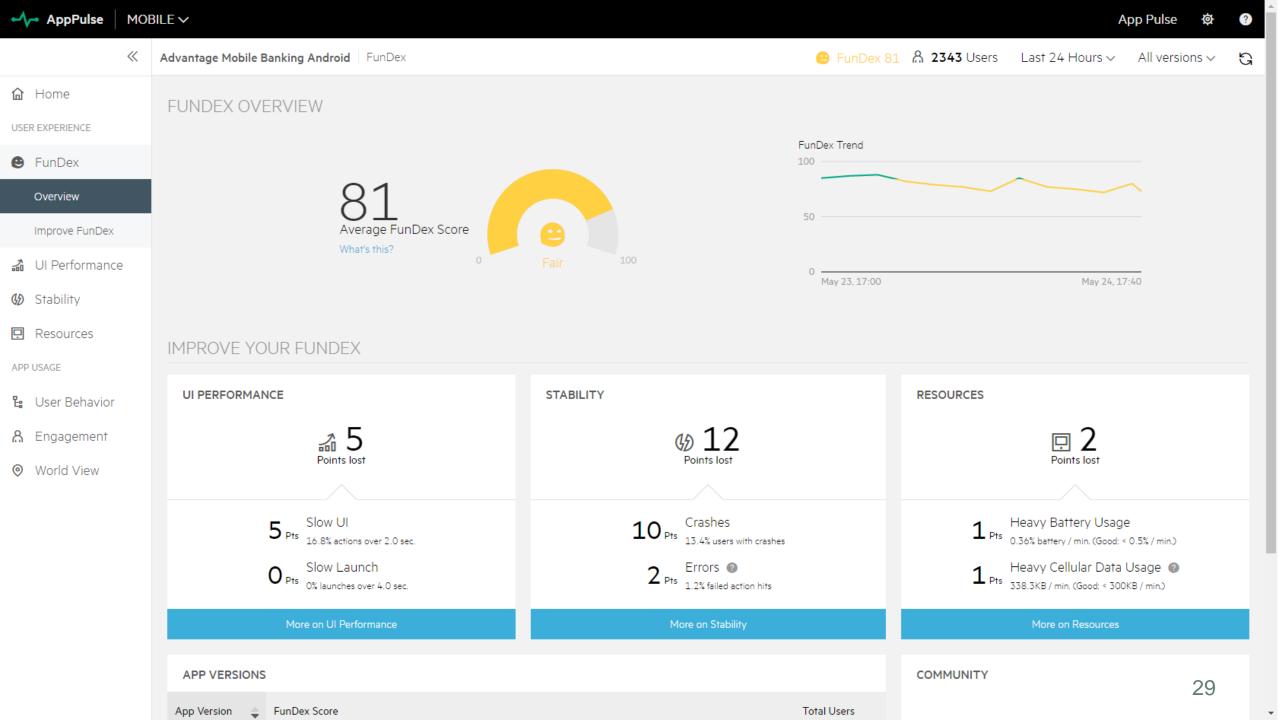


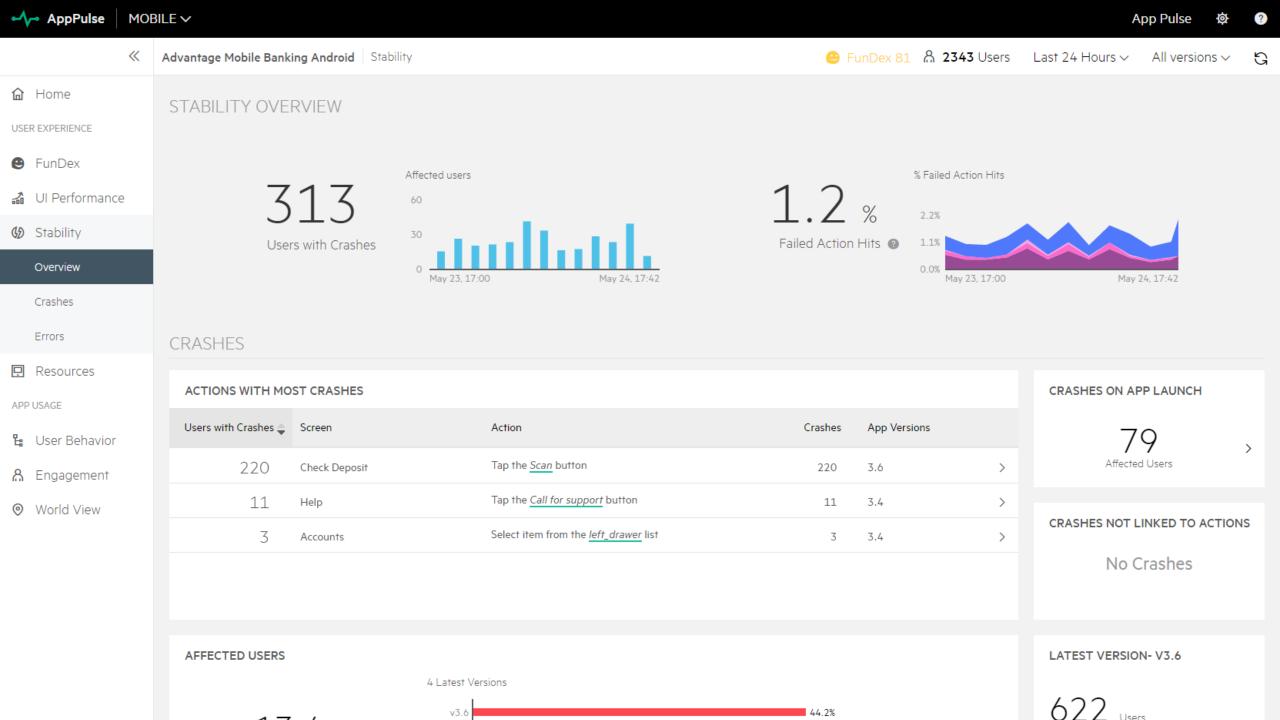
Jim W.

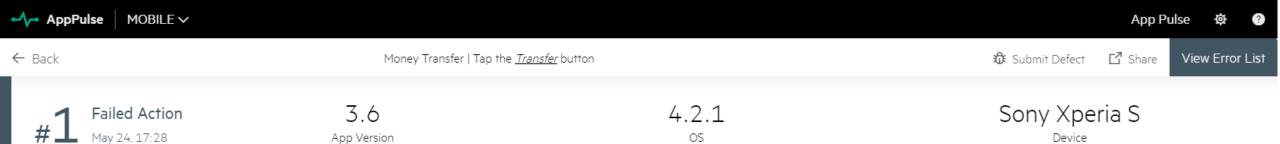
Summer Intern Corporate IT



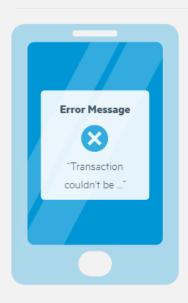


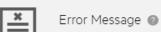






#### ERROR DETAILS





"Transaction couldn't be completed. Internal server error"

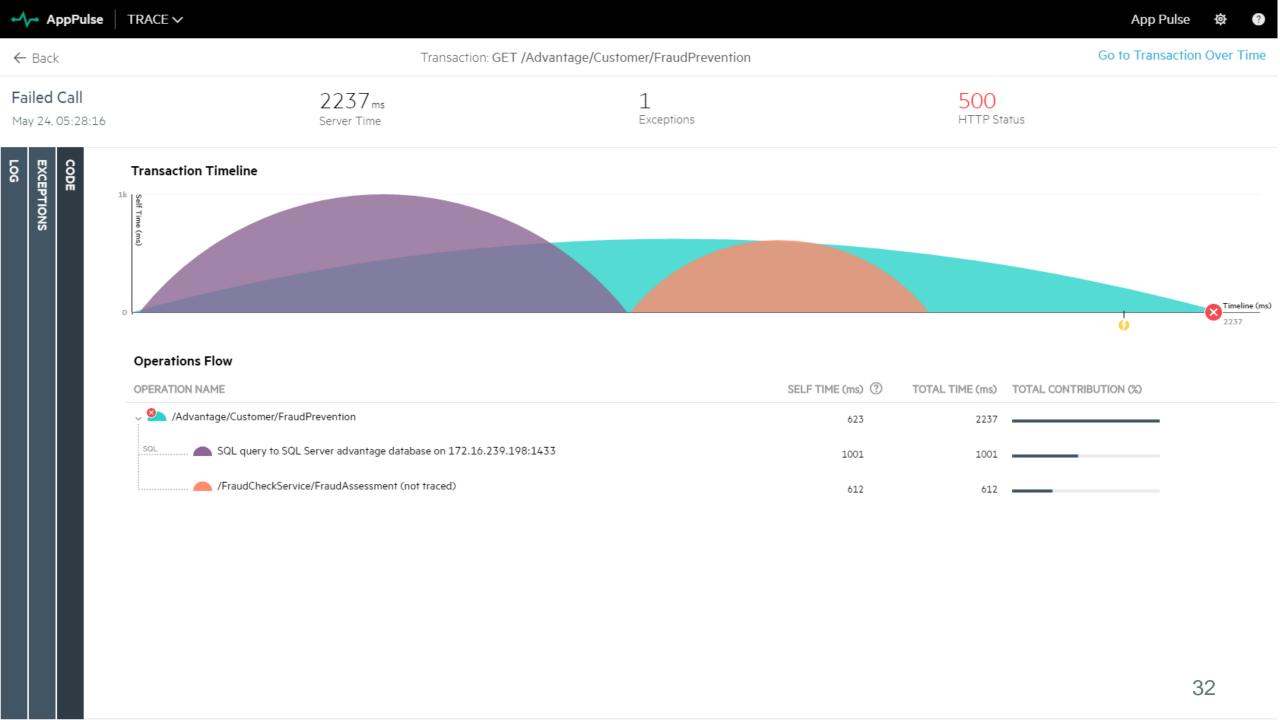


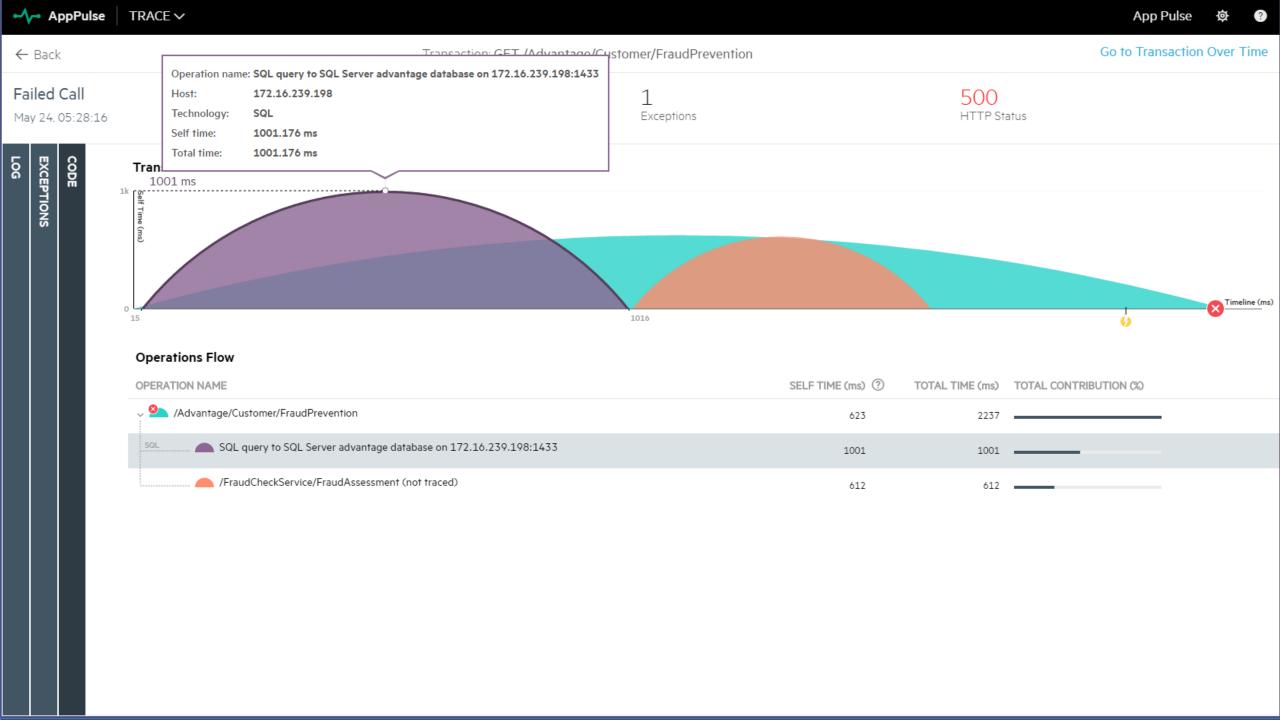
Failed HTTP requests

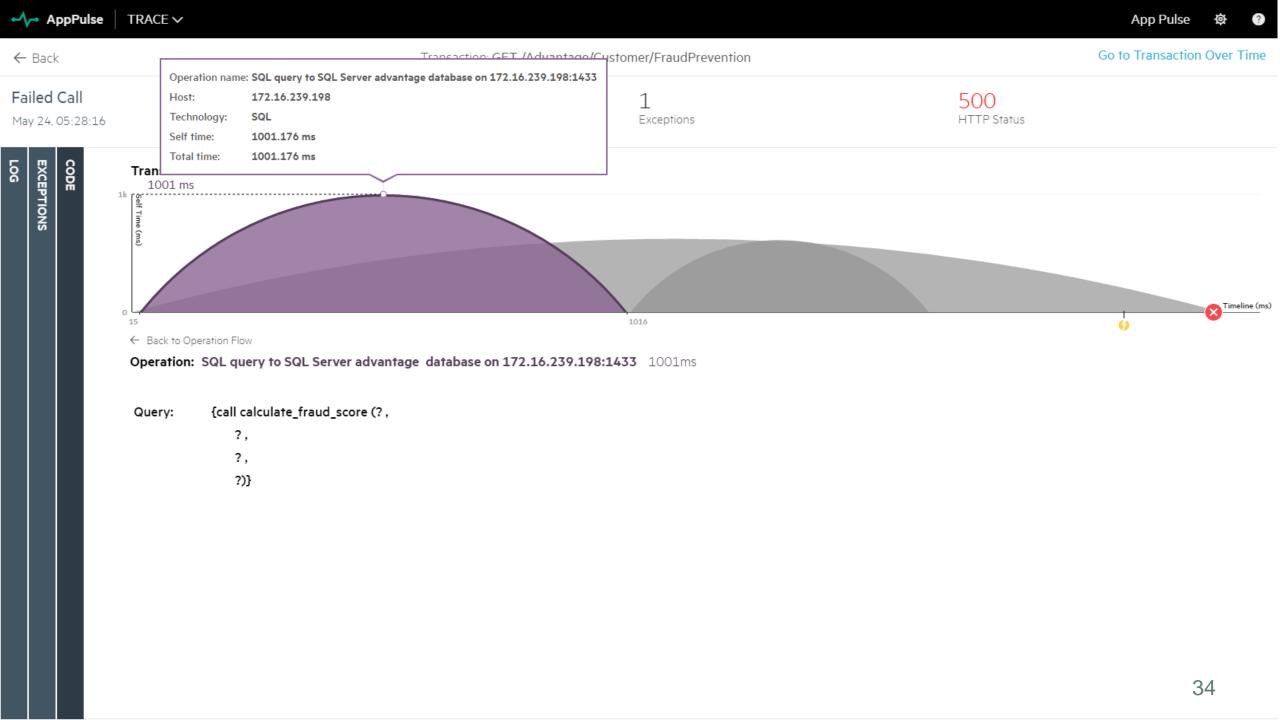
HTTP response code 500:

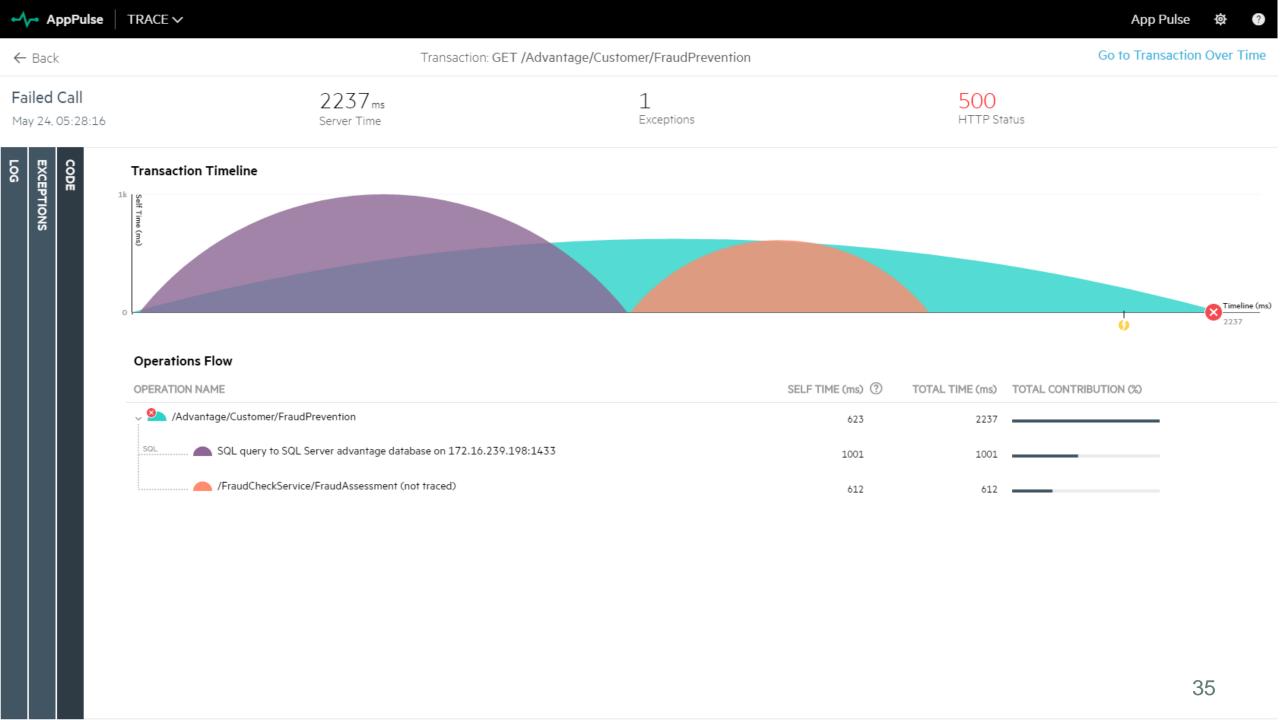
http://amb.hpswdemoportal.com/Advantage/Customer/FraudPrevention

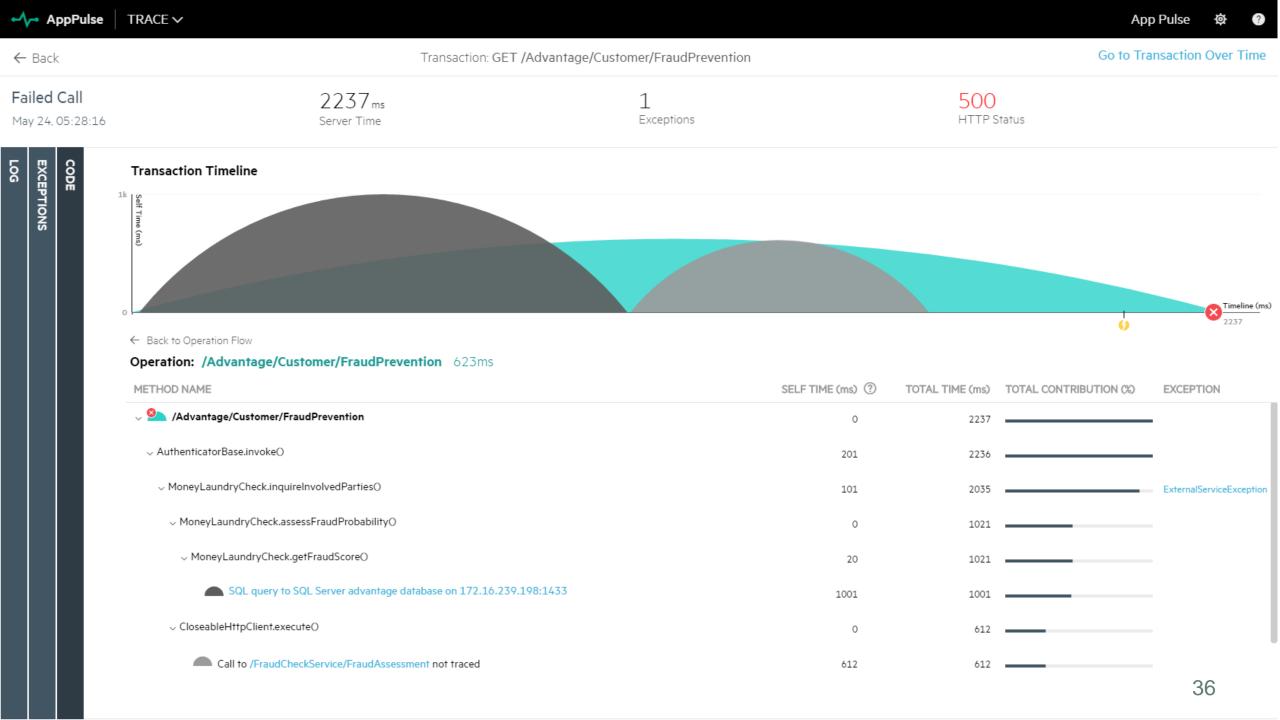
→ Trace Server Error

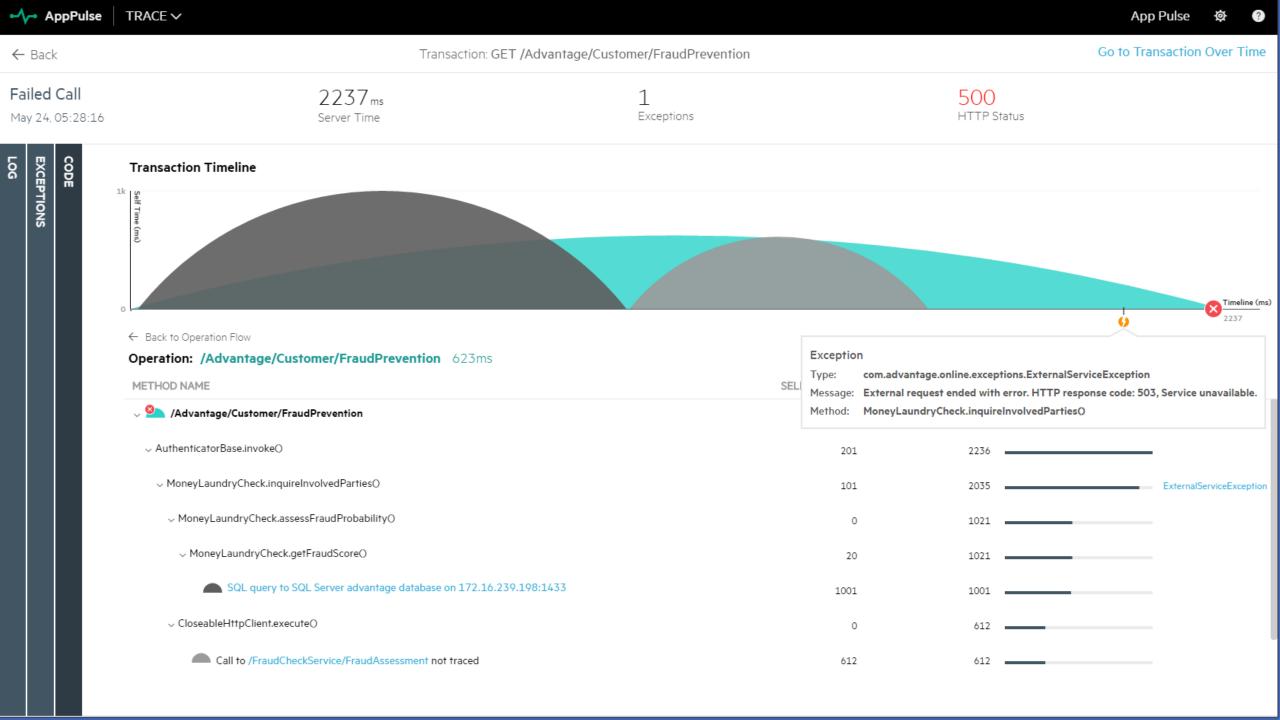


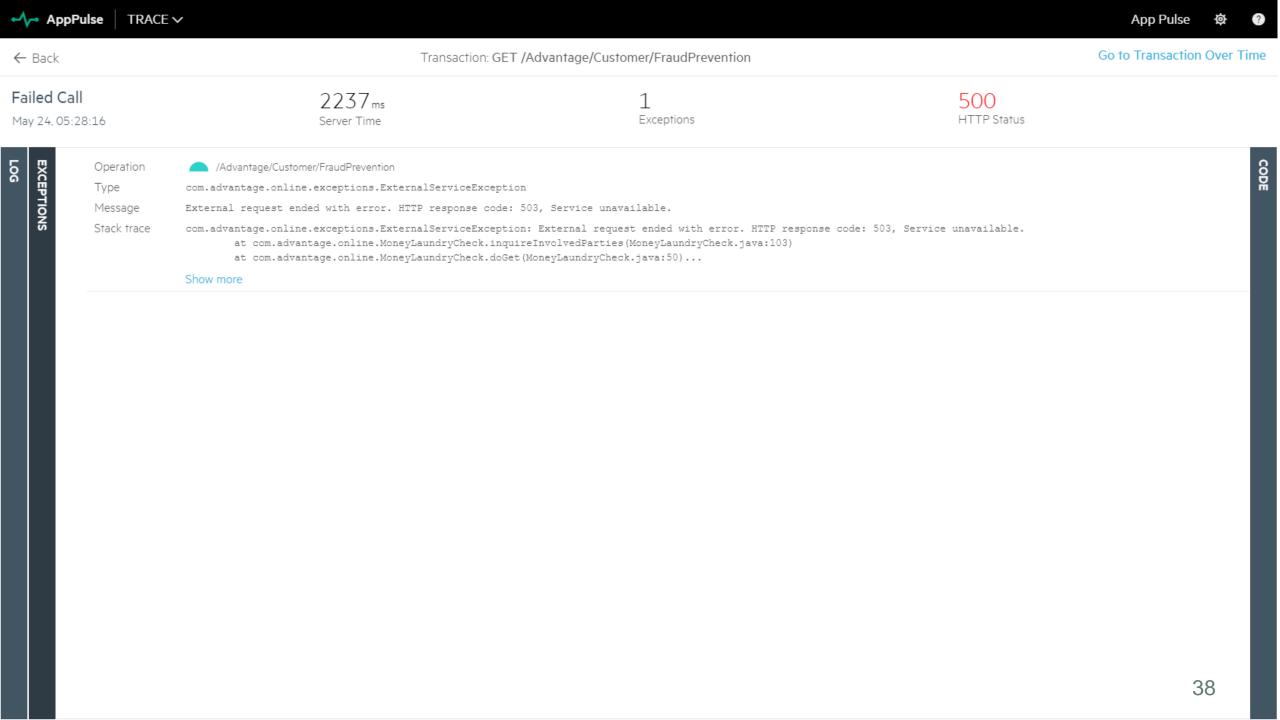


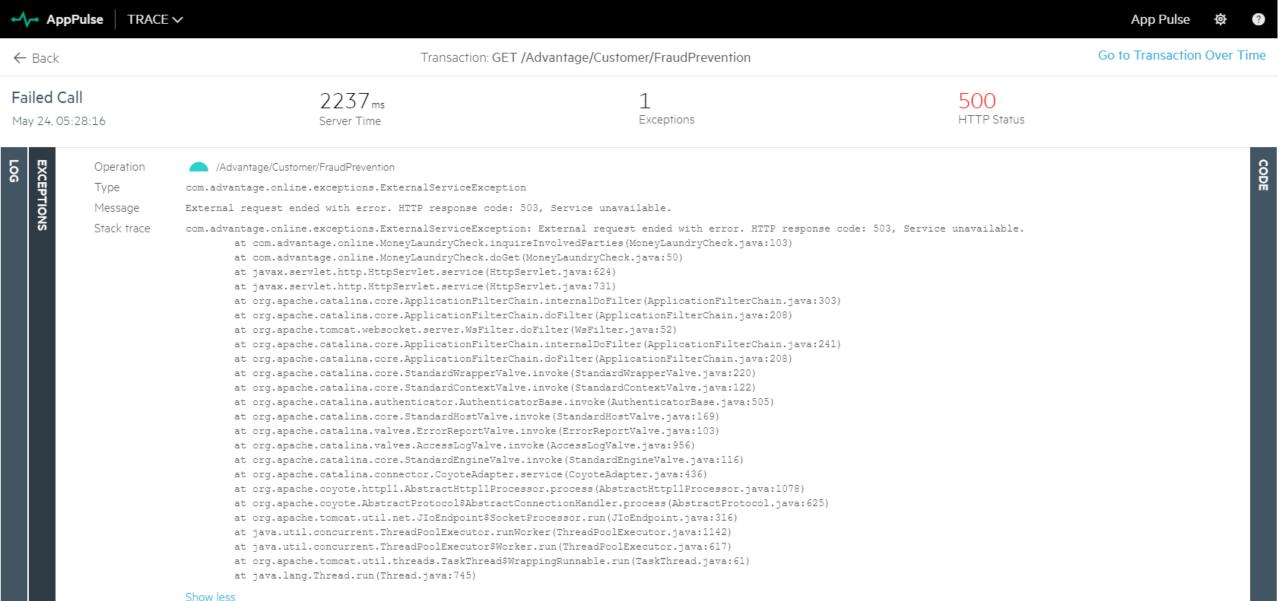


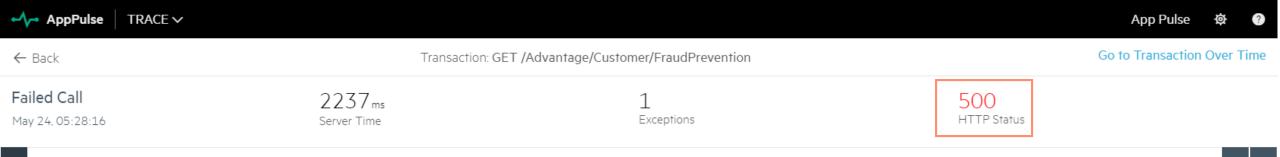












May 24, 2016 5:28:16.228 PM INFO (com.advantage.online.MoneyLaundryCheck) Going to inquire involved parties

May 24, 2016 5:28:16.237 PM INFO (com.advantage.online.MoneyLaundryCheck) Going to calculate fraud score

May 24, 2016 5:28:17.250 PM INFO (com.advantage.online.MoneyLaundryCheck) Going to check fraud externally.

May 24, 2016 5:28:18.463 PM INFO (com.advantage.online.MoneyLaundryCheck) Going to check with secondary provider.

May 24, 2016 5:28:18.464 PM ERROR (com.advantage.online.MoneyLaundryCheck) Internal Server Error. Failed to calculate score

May 24, 2016 5:28:17.250 PM INFO (com.advantage.online.MoneyLaundryCheck) Internal fraud check has passed successfully. Internal fraud score= 200

May 24, 2016 5:28:18.263 PM WARN (com.advantage.online.MoneyLaundryCheck) External request ended with error. HTTP response code: 503, Service unavailable.

May 24, 2016 5:28:18.464 PM ERROR (com.advantage.online.MoneyLaundryCheck) Secondary provider configuration is invalid, missing Authentication Token parameter.

May 24, 2016 5:28:17.244 PM INFO (com.advantage.online.MoneyLaundryCheck) FraudScore is :200

 $\otimes$ 

EXCEPTIONS

40



← Back Money Transfer | Tap the <u>Transfer</u> button



☐ Share

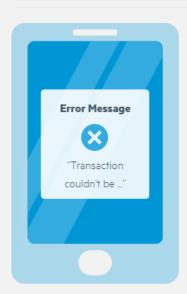
View Error List

#1 Failed Action
May 24, 17:28

3.6 App Version 4.2.1 os

Sony Xperia S

## ERROR DETAILS



<u>\*</u>

Error Message ②

"Transaction couldn't be completed. Internal server error"



Failed HTTP requests

HTTP response code 500:

http://amb.hpswdemoportal.com/Advantage/Customer/FraudPrevention

#### Submit Defect

 $\times$ 

#### Summary

Failed user action: "Advantage Mobile Banking" (Android) | Screen: "Money Transfer" | Action: "Tap the Transfer button"

### Description



#### Environment

App Version: 3.6 OS: 4.2.1

Davica: Sany Vn

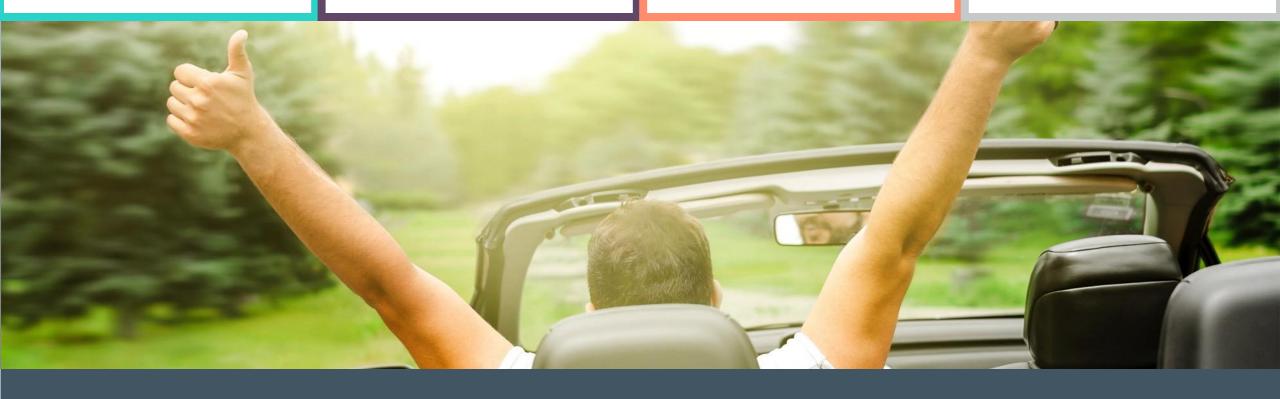
Device: Sony Xperia S

# **AppPulse Suite benefits summary**

Comprehensive SaaS APM solution

Proactively identify app issues before users do

Identify which performance and stability issues are impacting real app users Correlate issues from user experience, to application execution, to its underlying infrastructure





Net result: Continuous assessment and continuous improvement of both the application and the UX.

# Real customers, real results.



"Performance data mined in HPE AppPulse helped us build better apps for our users."



"HPE AppPulse took us from a low-star to a 5-star app in less than a month"



"Slowdowns directly impacted our revenue. HPE AppPulse traced transactions E2E to resolve problems fast!"

## **OPENTEXT**

"We used AppPulse to identify a slowness, diagnose the problem and resolve it. Reducing Tx load time from 20s to 2s"

## And many more...























# Get started with HPE AppPulse Suite





# Thank you

udi.shagal@hpe.com

Twitter: @udsh

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# Thank you

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