



dynatrace

# Dynatrace APM

September 18<sup>th</sup> 2015

Mike Ditmar | APM Sales Engineer

# Digital is Changing The Game Of Business



**94%**  
Use smartphones  
while shopping in store



**80%** of all apps  
are used  
once, then deleted.



**4 out of 5** check their smartphones  
within the first 15 min of waking up



Aaron McIver  
@aaron\_mciver



@nfl attempt at media across devices is frustrating. Videos not playing on mobile is a throwback to 2008. #techfail nfl

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11:39 AM - 24 Aug 2014



# Existing technology assets are not ready



Mobile performance still  
**30-40%** slower than  
Desktop



**53% of CxOs**  
find understanding customer behavior an  
**extremely significant challenge**



Only **19%** of  
executives believe  
they have the right  
technology to execute



Aaron McIver  
@aaron\_mciver

@nfl attempt at media across devices is frustrating. Videos not playing on mobile is a throwback to 2008. #techfail nfl

Reply Retweet Favorite More  
11:39 AM - 24 Aug 2014



# What we believe

- Starts and Ends with the User - Not just the App
- It's about preventing problems, not just reacting
- Gap-free data is essential
- The goal is Dev/Ops not Just/Ops

Mobile • Web • Smart Devices • Cloud Services

# User Insights



# Application Insights

Java • .NET • PHP • Node.js • z/OS • Nginx



Mobile • Web • Smart Devices • Cloud Services

## User Insights



# Application Insights

Java • .NET • PHP • Node.js • z/OS • Nginx



Mobile • Web • Smart Devices • Cloud Services

## User Insights



SAP • Citrix • Oracle EBS • VoIP • TCP/IP

## App-Aware Network Insights



# Application Insights

Dynatrace Application Monitoring



Dynatrace User Experience Management

## User Insights

Dynatrace Synthetic Monitoring



Dynatrace Data Center Real User Monitoring

## App-Aware Network Insights





Lifecycle

# Application Insights

Dynatrace Application Monitoring



Expert Services

Dynatrace User Experience Management

## User Insights

Dynatrace Synthetic Monitoring



Dynatrace Data Center Real User Monitoring

## App-Aware Network Insights







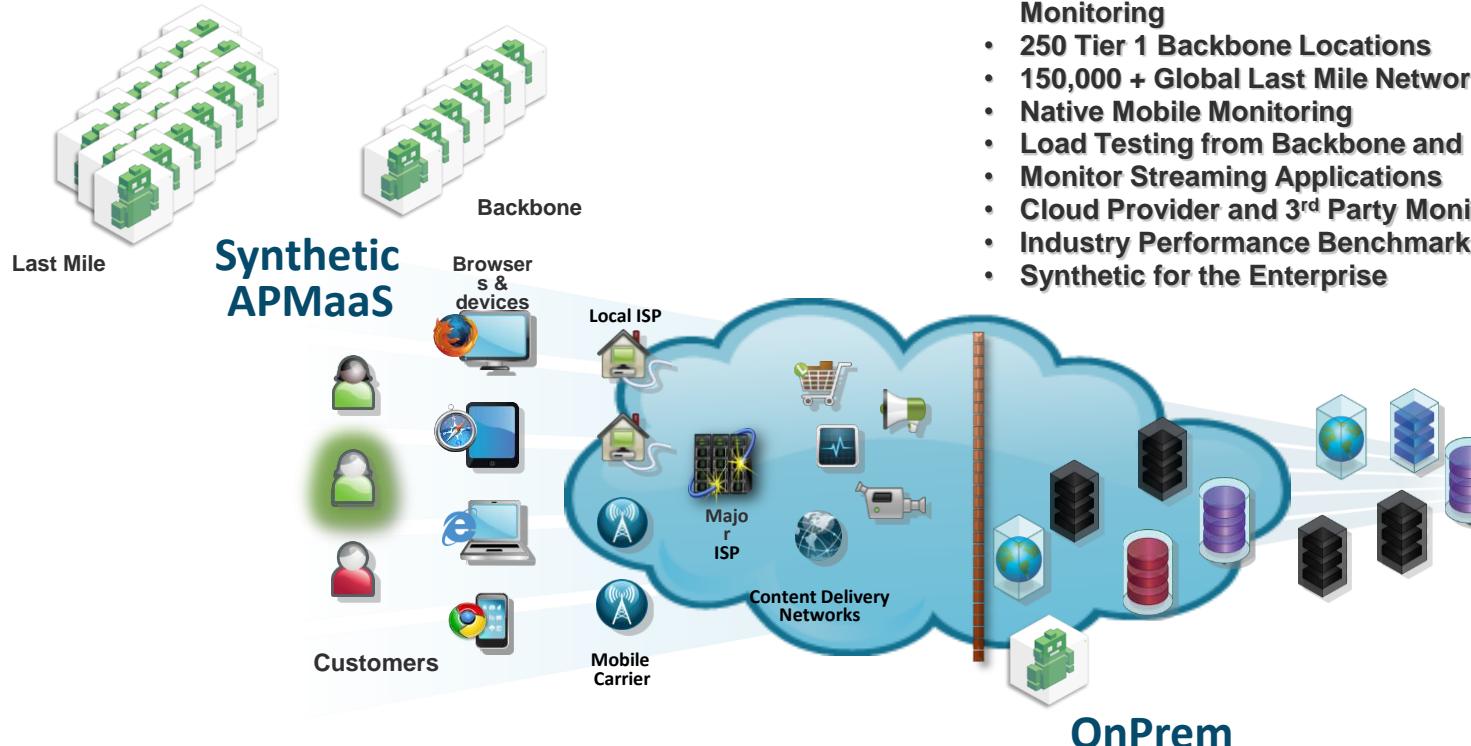
# User Insights

Dynatrace Synthetic Monitoring





# Dynatrace Synthetic Transaction Monitoring



# The World's Most Comprehensive Performance and Testing Network



## Synthetic Agents

Deployed and managed by Dynatrace

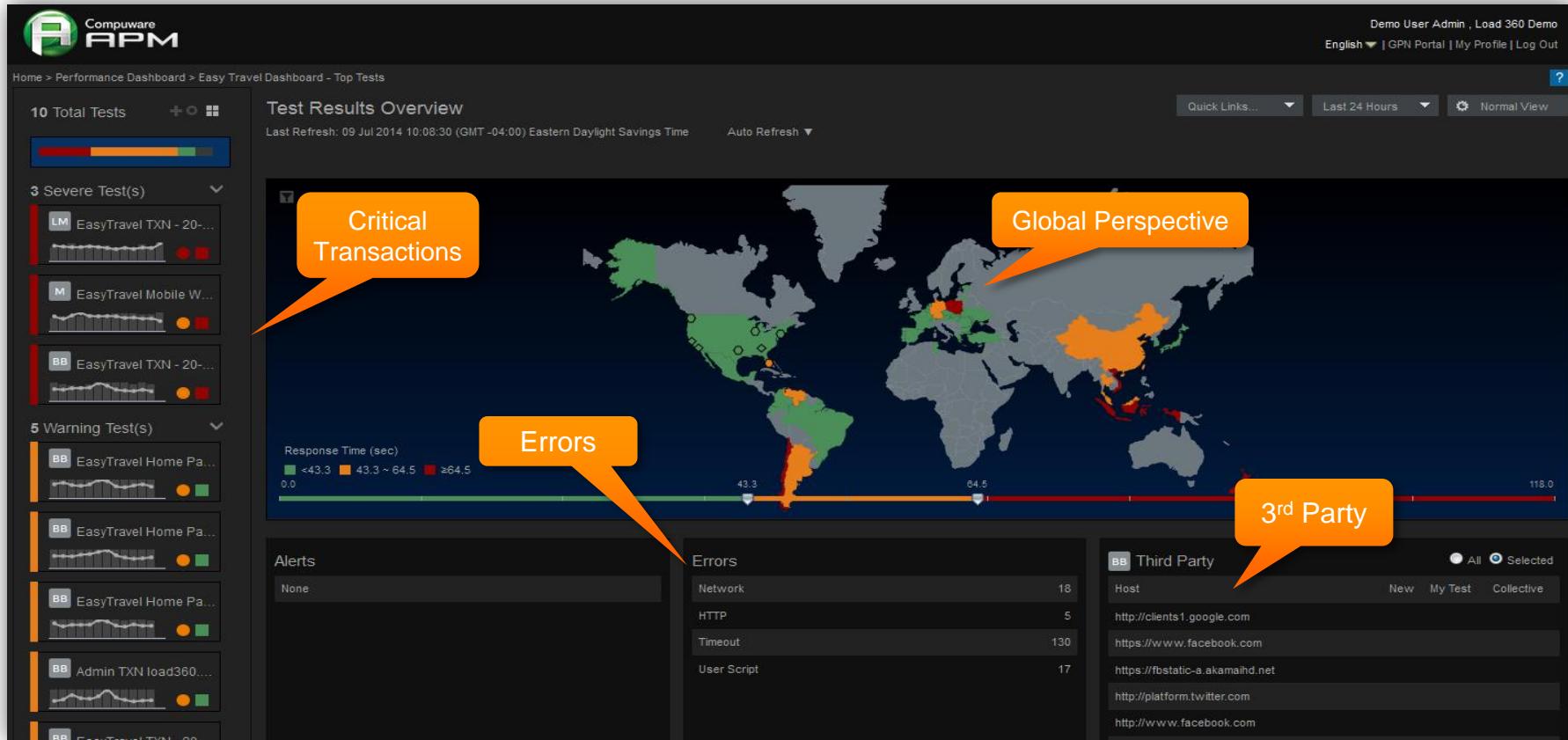


## Synthetic Private Agents

Deployed by Customer

- SaaS Private Agents
- SaaS Private Peers
- Enterprise Synthetic (OnPrem)

# APM Portal - Out of The Box Dashboards



# Automated Diagnostics and Drilldown to PurePath



Home > Interactive Charts > Unsaved chart (GMT -04:00) Eastern Daylight Savings Time ?

Select Tests: EasyTravel TXN - 20-Sep-2013 18:16:21 - 3 - IE Agent Save Action ▾

8 Jul 2014 10:00 - 9 Jul 2014 10:27 Last 24 Hours Custom: Interval: 1 hour Filters: None

Average Response Time by Test X Percent Availability by Test X + Add Series Templates ▾

30.050 100.00  
24.040  
18.030

Event Notification

Problem Identification

Automatic Problem Analysis

1st Byte Time

Root Cause Analysis | By: Test | Results Analyzed: 168 steps, 3784 objects

Test Name: EasyTravel TXN - 20-Sep-2013 18:16:21 - 3 - IE... Response Time: 22.809s Availability: 100% Jul 08 2014 13:00

Analysis Window: Jul 08 2014 between 10:00 and 14:00

Problems 2 Locations 6/7 Problem Types Page Content Performance

2 Problems > Page Response Time Increase (Performance)-Problem Summary

RCA lists the top actions (object retrieval or connection times) that contributed most to the page response time increase. Actions are presented in order of page contribution percentage. Page contribution is calculated by dividing the action response time by the overall page response time

Rank	Top Causes Identified by the Root Cause Analyzer across all Locations	Critical Action
1	A page response time increase was found on step 1.Home Page. The number 1 ranked root cause was the following action: long image object retrieval response time for host( <a href="http://load360.demo.compuware.com">http://load360.demo.compuware.com</a> ) and object( <a href="#">img/header1.png</a> ).	image object retrieval with a response time of 6475ms
2	A page response time increase was found on step 1.Home Page. The number 2 ranked root cause was the following action: long application object retrieval response time for host( <a href="http://load360.demo.compuware.com">http://load360.demo.compuware.com</a> ) and object( <a href="#">object/</a> ).	application object retrieval with a response time of 6176ms
3	A page response time increase was found on step 1.Home Page. The number 3 ranked root cause was the following action: long text object retrieval response time for host( <a href="http://load360.demo.compuware.com">http://load360.demo.compuware.com</a> ) and object( <a href="#">CalculateRecommendations</a> ).	text object retrieval with a response time of 3670ms

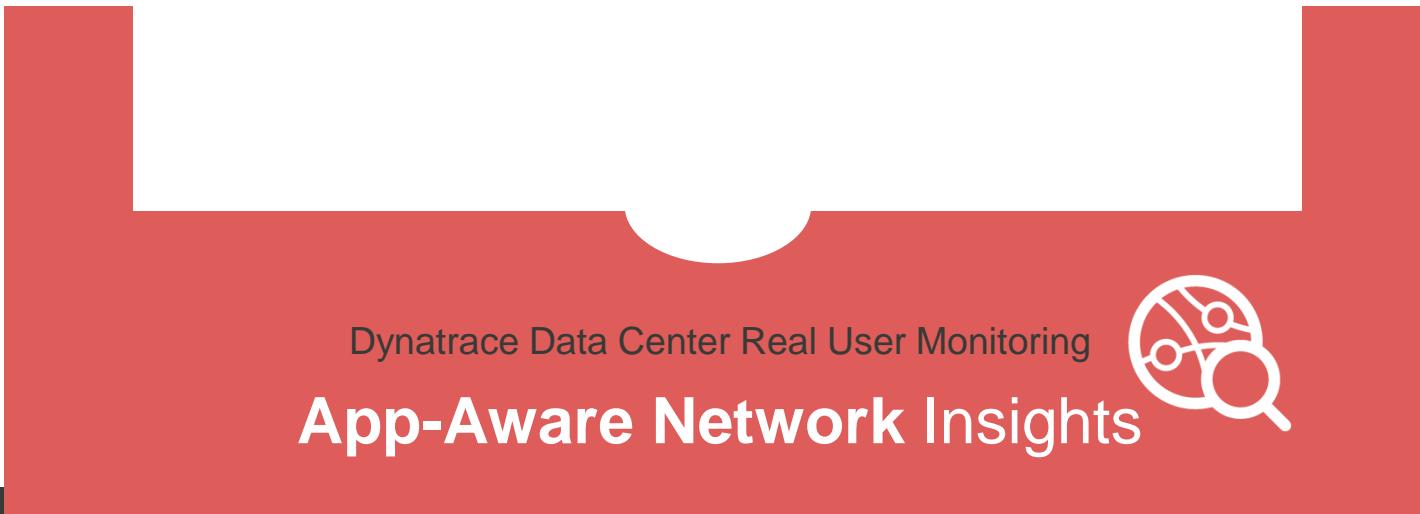
View Step - Time (Sequential) Start Filter None Selected

ID	Step names (8 of 6)	Summary	Details	PurePath	Code	Error	3.8s	7.65s	11.5s	15.35s	19.15s
1	Step 1: Home Page				200	Pass					
2	DNS Lookup http://load360.demo.compuware.co...										
3	Connection 0 - 107.20.214.20										
4	http://load360.demo.compuware.com/ [0]				200	Pass					
5	Connection 1 - 107.20.214.20										
6	Connection 2 - 107.20.214.20										
7	Connection 3 - 107.20.214.20										
8	Connection 4 - 107.20.214.20										
9	Connection 5 - 107.20.214.20										
10	DNS Lookup https://apis.google.com - 74.125.23...										
11	Connection 6 - 74.125.239.37										
12	DNS Lookup http://clients1.google.com - 74.125...										
13	Connection 7 - 74.125.239.40										
14	http://clients1.google.com/csp [?]				200	Pass					
15	DNS Lookup http://gtglobal-ocsp.geotrust.com - ...										
16	Connection 8 - 23.5.251.27										
17	http://load360.demo.compuware.com/dtagent56...				200	Pass					

Synthetic Classic Real User Monitoring Real User Monitoring Mixed

Average Response Time (sec) 17.663 Percent Availability (%) 99.40 Screen Captures Product

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A large red rectangular bar spans the width of the slide, featuring a white rounded rectangular cutout in its center. This cutout is partially obscured by a white cloud-like shape at the bottom. The red bar has a thin white border.

Dynatrace Data Center Real User Monitoring

# App-Aware Network Insights



A white magnifying glass icon with a globe inside it, positioned to the right of the main text.

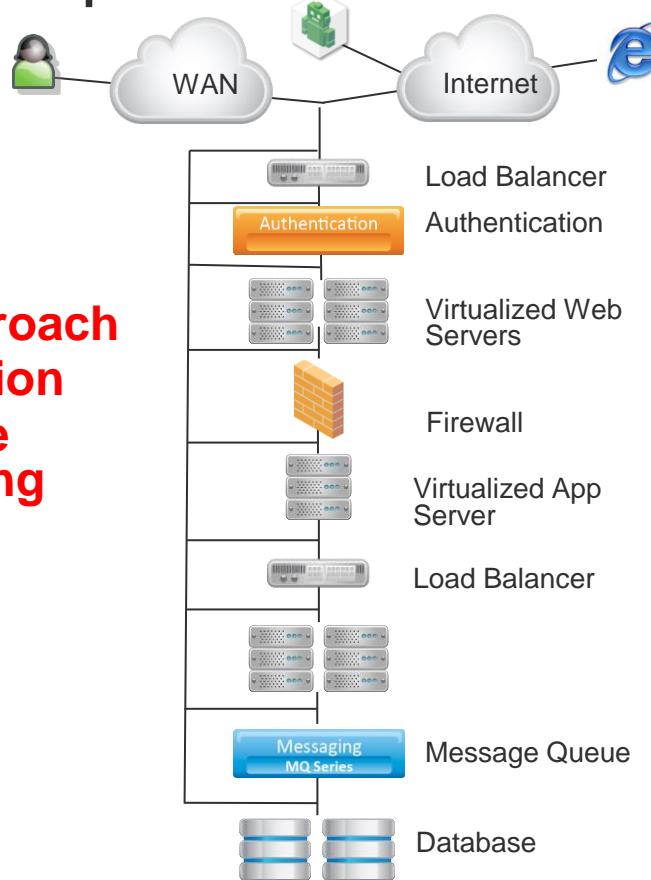


# Traditional Monitoring is Inadequate

## Component Level Monitoring Tools

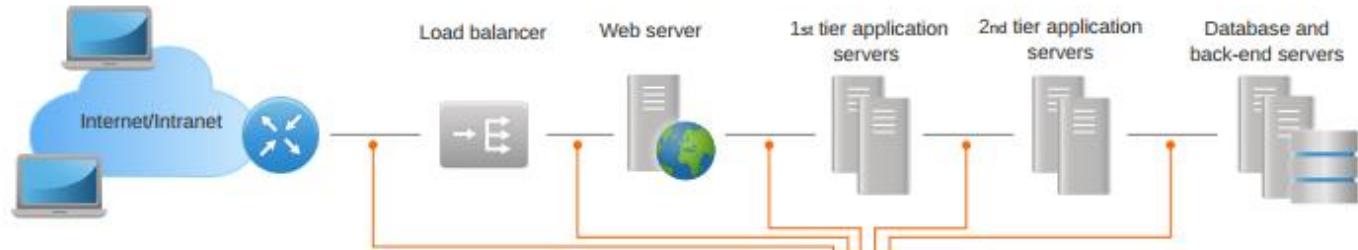
Authentication Monitoring Imprivata, Zimbra, ActiveIdentity, EMI Security, Juniper J-Web, Juniper
Server Monitoring Perfmon, Netcool, SiteScope, SolarWinds, Nimsoft, Nagios, MOM
Network Monitoring Netscout, NIKSUN, NetCool, Opnet, Fluke, Cisco Works, EMC Smarts
Virtual Env. Monitoring VMWare, Quest vFoglight, OpenV Mon, ZenOS, NetIQ App Manager
Application Monitoring Wily Introscope, Mercury Topaz, OV Transaction Analyzer, ITCAMs, dynaTrace, Optier, IBM ITCAMs
Message Queue Monitoring Candle, BMC Middleware Mgmt, Hyperic, Omegamon
Database Monitoring Quest Software, IBM Tivoli, Quest Fog Light, Precise, Oracle

A Silo Based Approach Makes Correlation And Effective Troubleshooting Impossible

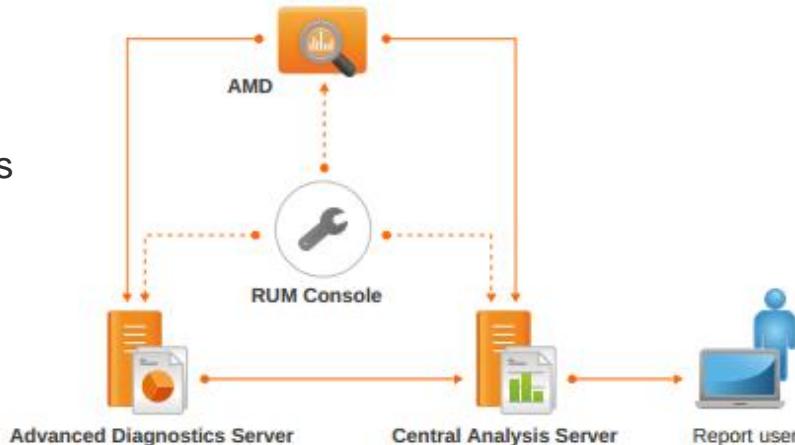




# How Does It Work?



- **Real End-User Response Times**
- **Fault Domain Isolation:** Locate Bottlenecks
- **Prioritization:** Affected Users, Affected Transactions
- **All Applications:** Across entire datacenter
- **All Users:** By User ID, By Locations
- **Always On:** Continuous data feed of Performance



# End-to-End Visibility for all Business-Critical Applications



## Application Health Status

Refresh on new data Actions Average ?

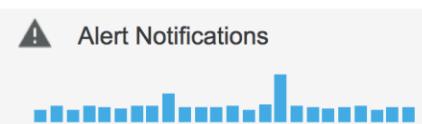
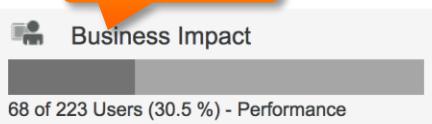
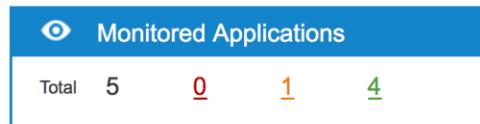
8/4/14 18:00 - 8/4/14 19:00

Summary ▸ Applications

Affected Users

Last one hour

Options



Application	Transactions	Health Index (trend over previous 24 hours)	Synthetic	Business Impact ▾ Affected users/visits	Network	Data Center Tiers
easyTravel Customer				1.16 s 11.7 k	50 of 116 Users (43.1 %) - Performance	      
SAP ERP				5.36 k	16 of 53 Users (30.2 %) - Performance	    
easyTravel B2B				2.35 s 435	2 of 12 Users (16.7 %) - Performance	    
Drupal7 PHP				2.04 s 508	0 of 49 Visits (0 %)	 
Oracle EBS				665 ms 355	0 of 4 Users (0 %)	  

Transaction Health

Cross-Tier FDI

Network Health

# Domain Isolation Across Complex Multi-Tiered Applications



**Data Center Analysis**

Resolution: 1 period ▾ Time range: Custom (8/20/14 14:00-8/20/14 17:00) ▾ Actions Average ?

**Infrastructure Performance**

Application: easyTravel Customer Transaction/Step: All Transactions

Application Health:

Operation Time:

Availability:

Usage:

**Tiers**

Tier	Health	Operation time	Requests
Customer VIP	98.5 %	1.02 s	20.6 k
Customer Web Frontend (Java)	99.1 %	822 ms	21.3 k
Authentication Services	100 %	12.8 ms	5.53 k
Business			
Backend Server (Java)	96 %	41.7 ms	282 k
Payment Backend (NET)	100 %	232 ms	1.32 k

(9 rows) 1 - 5

**Customer VIP (Front end tier)**

**Customer Web Frontend (Java)**

**Authentication Services**

**Identify Slow Transactions**

**Software Module Performance** 8/20/14 14:00 - 8/20/14 17:00

**Operations**

Operation	Requests	Slow operations	Performance	Users	Operation time	Availability
/orange-booking-review.jsf	2.06 k	160	91.9 %	205	2.69 s	96.5 %
/orange-booking-review.jsf	1.97 k	24	98.8 %	181	786 ms	100 %
All other operations	2.36 k	16	99.3 %	215	1.31 s	100 %
/orange.jsf...inform=loginform	1.02 k	6	99.4 %	11	290 ms	99.1 %
/orange-booking-finish.jsf	1.76 k	3	99.8 %	15	1.16 s	100 %

**User Performance** 8/20/14 14:00 - 8/20/14 17:00

**Users**

User name	Slow operations	Health
61.135.155.250	19	17.4 %
INDIA: Bangalore - VSNL	15	27.3 %
12.107.189.227 (APM-DYNATRACE)	14	95.1 %
SINGAPORE: Singapore - Singtel	12	23.5 %

**Easily Identify Gaps in Performance**

# Domain Isolation Across Complex Multi-Tiered Applications



**Data Center Analysis**

Resolution: 1 period ▾ Time range: Custom (8/20/14 14:00-8/20/14 17:00) ▾ Actions ▾ Average ? 8/20/14 14:00 - 8/20/14 17:00

**Infrastructure Performance**

Application: easyTravel Customer Transaction/Step: All Transactions

Application Health, Operation Time, Availability, Usage

Tiers:

Tier	Health	Operation time	Requests
Customer VIP	98.5 %	1.02 s	20.6 k
Customer Web Frontend (Java)	99.1 %	822 ms	21.3 k
Authentication Services	100 %	12.8 ms	5.53 k
Business			
Backend Server (Java)	96 %	41.7 ms	282 k
Payment Backend (NET)	100 %	232 ms	1.32 k

**Customer VIP (Front end tier)**

**Customer Web Frontend (Java)**

**Authentication Services**

Operation time breakdown: Redirect time: 50.1 ms, Network time: 384 ms, Server time: 4.88 s, Baseline Corridor: 1.19 s (▲ 4.12 s), Single click to focus analysis on the time period.

**Determine the Fault Domain and Baseline Deviation**

**Software Module Performance** 8/20/14 14:00 - 8/20/14 17:00

Operations:

Operation	Requests	Slow operations	Performance	Users	Operation time	Availability
/	2.06 k	160	91.9 %	205	2.69 s	96.5 %
/orange-booking-review.jsf	1.97 k	24	98.8 %	181	786 ms	100 %
All other operations	2.36 k	16	99.3 %	215	1.31 s	100 %
/orange.jsf...inform=loginform	1.02 k	6	99.4 %	11	290 ms	99.1 %
/orange-booking-finish.jsf	1.76 k	3	99.8 %	15	1.16 s	100 %
/result.jsf?dest=paris	121	3	97.5 %	11	2.8 s	100 %

**User Performance** 8/20/14 14:00 - 8/20/14 17:00

Users:

User name	Slow operations	Health
61.135.155.250	19	17.4 % ⚠
INDIA: Bangalore - VSNL	15	27.3 % ⚠
12.107.189.227 (APM-DYNATRACE)	14	95.1 % ●
SINGAPORE: Singapore - Singtel	12	23.5 % ⚠
222.73.36.178	9	18.2 % ⚠



# Application Insights

Dynatrace Application Monitoring



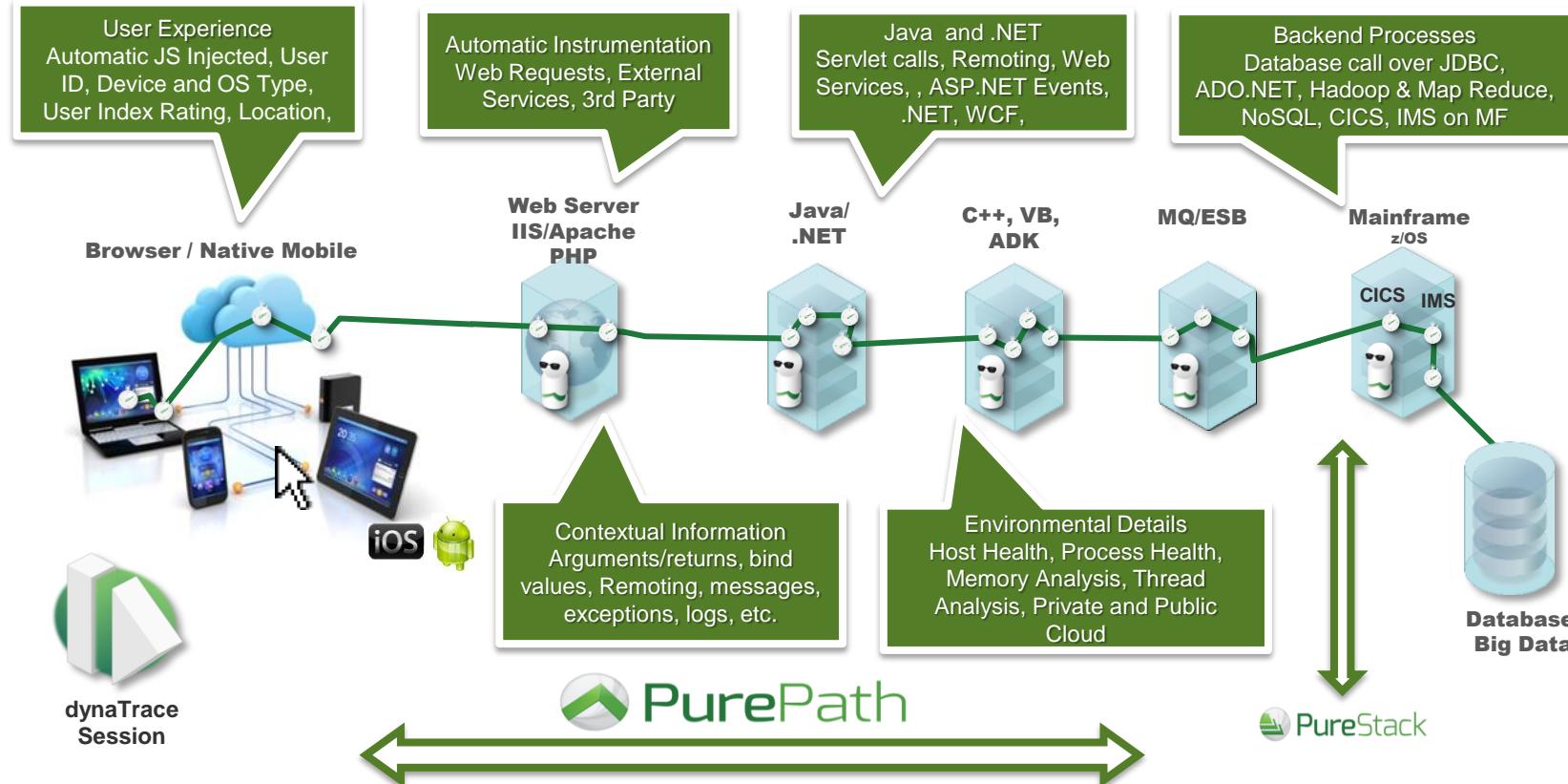
Dynatrace User Experience Management

## User Insights





# Designed for Complete Transaction Coverage



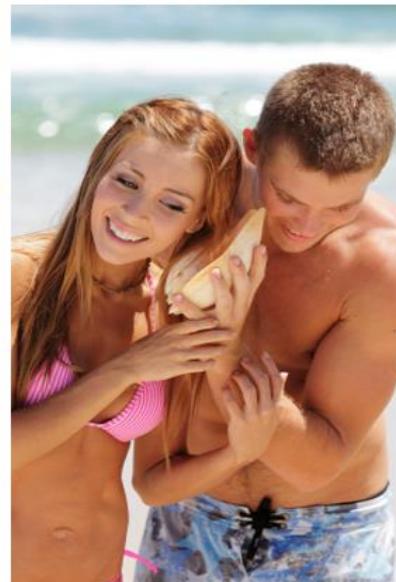
# Login



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## Your Journey

Trip Destination

From Date

To Date

Fill out the boxes above and your results will appear below.

**Search**



## Recommendations



**Monte Plata - La Cisterna** \$ 450.80

If you wish to stay in a hotel that has a friendly staff and an inviting ambience that reminds you of home then head to the Grand Hotel.

Sep 11 - Sep 19

**Book Now**



**Murtaugh - Homosassa Springs** \$ 703.00

If you wish to stay in a hotel that has a friendly staff and an inviting ambience that reminds you of home then head to the Grand Hotel.

Jan 18 - Jan 21

**Book Now**

# Search



## Your Journey

Trip Destination

New York

From Date

To Date

Found 3 journeys. [Clear] [Permalink]

**Search****Business Trip****\$ 299.99**

If you wish to stay in a hotel that has a friendly staff and an inviting ambience that reminds you of home then head to the Grand Hotel.

Sep 18 - Sep 25

**Book Now****Honeymoon Extravaganza****\$ 188.00**

If you wish to stay in a hotel that has a friendly staff and an inviting ambience that reminds you of home then head to the Grand Hotel.

Sep 11 - Sep 25

**Book Now****Lake Nebagamon - New York****\$ 1543.80**

If you wish to stay in a hotel that has a friendly staff and an inviting ambience that reminds you of home then head

# Review



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Hello Jerry Lobenstein!  
[Logout](#)

## Booking Transaction

① Log In

② Review

③ Payment

④ Finish



### Trip details

Journey [Business Trip](#)

Destination New York

Tenant Speed Travel Agency

Travellers

### Flight price

Round-trip ticket \$ 171.02

### Hotel price

1 room, 7 nights \$ 399.06

Taxes and fees \$ 29.90

**Total** \$ 599.98

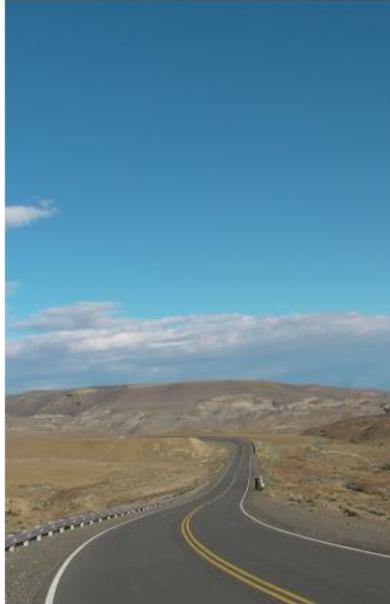
Avg/person \$ 299.99

New Search

To look for a different journey please  
press the New Search button.

Back

Next



356



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FARE TERMS AND CONDITIONS: Sample round-trip and one-way fares posted on [www.easytravel.com](http://www.easytravel.com) are per person and include all applicable taxes and fees including, but not limited to September 11th Security Fee of up to \$300 for each flight segment originating at a U.S. airport; Passenger Facility Charges of up to \$18, depending on itinerary; Federal Segment Fees of \$3.70 per segment; and foreign and U.S. government-imposed-charges of up to \$400 per international round-trip flight, depending on routing and destination. A flight segment is defined as one takeoff and one landing. Fares are subject to availability and change without notice. If advertised fare is not available for dates chosen, higher fares may be offered. Actual prices may vary based on actual routing, fluctuations in currency (international only), and day of week.



# Purchase



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## Booking Transaction

① Log In    ② Review    ③ Payment    ④ Finish

### Credit Card Information

(Secure SSL Encrypted Transaction)



Credit Card Type \*

Credit Card Number \*

Card Owner's Name \*  (As it appears on your credit card)

Expiration Date \*   (Please ensure expiration date is correct)

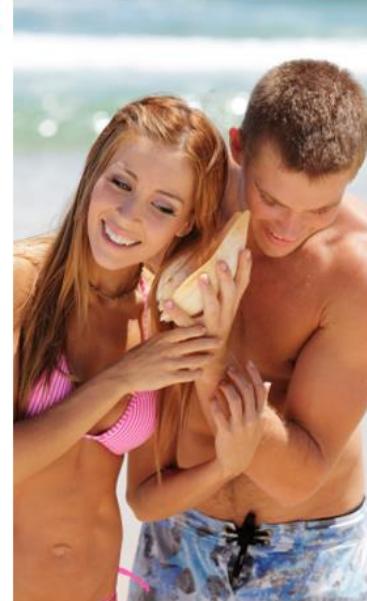
Verification Number \*   (3 or 4 digit number from your card)

(\*) Required

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## Booking Transaction

[① Log In](#)[② Review](#)[③ Payment](#)[④ Finish](#)

The booking procedure is almost complete: Press the Finish button to actually perform the booking.

[Back](#)[Finish](#)[G+1 356](#)[Follow @dynatrace](#)

8,255 followers

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Dashboard name



EasyTravel Revenue Dashboard

System profile

easyTravel

Timeframe

Last 1 hour

Average Revenue

1.9  
k  
\$Dollars

10:21

11:21

Average booking by user over the last hour.

165  
k  
\$Dollars

10:21

11:21

Booking revenue by the hour.

25  
s  
Time

10:21

11:21

User Duration for business process.



easyTravel Bookings - Revenue (easy Travel mobile)  
▲ 1/2 ▼

easyTravel Logins

≤ 5/min Throughput  
0% Failure rate  
≤ 214ms Response time



easyTravel Search

≤ 7/min Throughput  
0% Failure rate  
≤ 106ms Response time



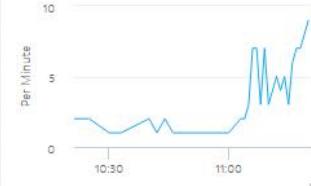
easyTravel Purchase

≤ 2/min Throughput  
0% Failure rate  
≤ 2.61s Response time



easyTravel Book

≥ 9/min Throughput  
0% Failure rate  
≤ 2.34s Response time



Desktop vs. Mobile

Business Process Throughput, Failure, Response Time.



Key:

Deployed

Not Deployed

Not Applicable

Application	DC RUM	Dynatrace	Synthetics / Private Enterprise
Treasury - SUW	Green	Green	Red
Michigan.gov	White	White	Green
Bridges	Green	Green	Green
BAM	Red	Green	Green
SACWIS	Red	Green	Red
MCP	Red	Green	Red
MIWIC	Red	Green	Red
MVIC	Green	Red	Green
BOS	Green	Grey	Green



# Dashboards In-Use at The SoM

Applications		Service Quality				RFC	
Agency	Service Title	Red Card	Business Criticality	Current	Critical State (Past 24 Hours)	During Period	Available
Education	Michigan Electronic Grants Sy	No	Medium	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Secretary of State	Michigan Voter Information C	Yes	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Secretary of State	Uniform Commerical Code	Yes	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Technology, Management and	Vision (ORS)	Yes	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Licensing and Regulatory Affai	MLCC - On-Line Liquor Orderin	No	High	Normal	42m 57s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Education	Bureau of Assessment and Ac	Yes	High	Normal	0s	N/A	<span style="color: green;">✓</span>
Technology, Management and	Michigan Student Data System	Yes	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Education	Cash Management System	Yes	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Community Health	StarLIMS	Yes	Urgent	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Technology, Management and	Michigan Continuity Manager	Yes	Urgent	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Licensing and Regulatory Affai	Michigan Business OneStop	Yes	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>
Agriculture	USA Herds	No	High	Normal	0s	<div style="width: 100%;"><div style="width: 100%; background-color: #2e6b2e;"></div></div>	<span style="color: green;">✓</span>

◀ ▶ 1 2 3 ▷ ⌂

Transactions		Service Quality		Robot Response Time	Servers		Network				
Transactions		Current	Critical State Time (Past 24 Hours)		Service Title		Service Quality	County	Service Quality	Performance	
		Current	Critical State Time (Past 24 Hours)		Service Title	Current	Duration	Current	Duration	Robot	Real User
Database_HCS313MI	▶	<span style="color: green;">●</span>	0s	1ms	Application	<span style="color: red;">●</span>	3m 3s	<span style="color: green;">●</span>	8h 37m	4.02s	0s
Database_HCS313MI	▶	<span style="color: green;">●</span>	0s	1ms	Web	<span style="color: green;">●</span>	23d 8h	<span style="color: green;">●</span>	23d 16h	0s	11.55s
All other	▶	<span style="color: green;">●</span>	0s		Database	<span style="color: green;">●</span>	4d 13h	<span style="color: black;">—</span>	82d 16h	0s	0s
2 Login	▶	<span style="color: green;">●</span>	0s	4.91s				<span style="color: black;">—</span>	9h 1m	0s	0s
MEGSPlus_Database	▶	<span style="color: green;">●</span>	0s	80ms				<span style="color: black;">—</span>	9h 1m		0s
ReportSrvr_HCS313M	▶	<span style="color: green;">●</span>	0s	1ms				<span style="color: black;">—</span>			
1 Launch Homepage	▶	<span style="color: green;">●</span>	0s	3.14s				<span style="color: black;">—</span>			

### Department of State

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
Uniform Commercial Code	Yes	Normal	<span style="color: green;">●</span>	0s	
MVIC	Yes	Normal	<span style="color: green;">●</span>	0s	
BOS	Yes	Normal	<span style="color: green;">●</span>	0s	
Qualified Voter File	Yes	Normal	<span style="color: green;">●</span>	0s	
Web Renewal	Yes	Normal	<span style="color: green;">●</span>	0s	
Elections Management Port	Yes	Normal	<span style="color: green;">●</span>	0s	
BAM	Yes	Normal	<span style="color: green;">●</span>	0s	

### Dept. of Technology Management & Budget

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
Michigan Student Data Syst	Yes	Normal	<span style="color: green;">●</span>	0s	
Data Exchange Gateway	Yes	Normal	<span style="color: green;">●</span>	0s	
ORS	Yes	Normal	<span style="color: green;">●</span>	0s	
BUY4MICHIGAN	Yes	Normal	<span style="color: green;">●</span>	0s	
Educational Entity Master	Yes	Normal	<span style="color: green;">●</span>	0s	
Continuity Management So	Yes	Normal	<span style="color: green;">●</span>	0s	
SMMS	Yes	Normal	<span style="color: green;">●</span>	0s	

### Department of Education

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
SAMS	Yes	Normal	<span style="color: green;">●</span>	0s	
Item Bank	Yes	Normal	<span style="color: green;">●</span>	0s	
SECURE SITE	Yes	Normal	<span style="color: green;">●</span>	0s	
MEGSPLUS	No	Normal	<span style="color: green;">●</span>	0s	
Cash Management System	Yes	Normal	<span style="color: green;">●</span>	0s	
MOECS	No	Normal	<span style="color: green;">●</span>	0s	

### Dept. of Licensing and Regulatory Affairs

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
AWARE	No	Normal	<span style="color: green;">●</span>	0s	
On-Line Liquor Ordering	No	Normal	<span style="color: green;">●</span>	21m 59s	
OneStop	Yes	Normal	<span style="color: green;">●</span>	0s	

### Department of Human Services

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
ASCAP	Yes	Normal	<span style="color: green;">●</span>	0s	
MICSES	Yes	Normal	<span style="color: green;">●</span>	0s	

### Department of Corrections

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
NEXTGEN	Yes	Normal	<span style="color: green;">●</span>	0s	

### Dept. of Agriculture and Rural Development

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
USA Herds	No	Normal	<span style="color: green;">●</span>	0s	

### Department of Community Health

Application	Red Card	Service Quality			RFC
		Current	Critical State (Today)		
StarLIMS	Yes	Normal	<span style="color: green;">●</span>	0s	
CHAMPS	Yes	Normal	<span style="color: green;">●</span>	0s	
Data Hub	Yes	Normal	<span style="color: green;">●</span>	0s	



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