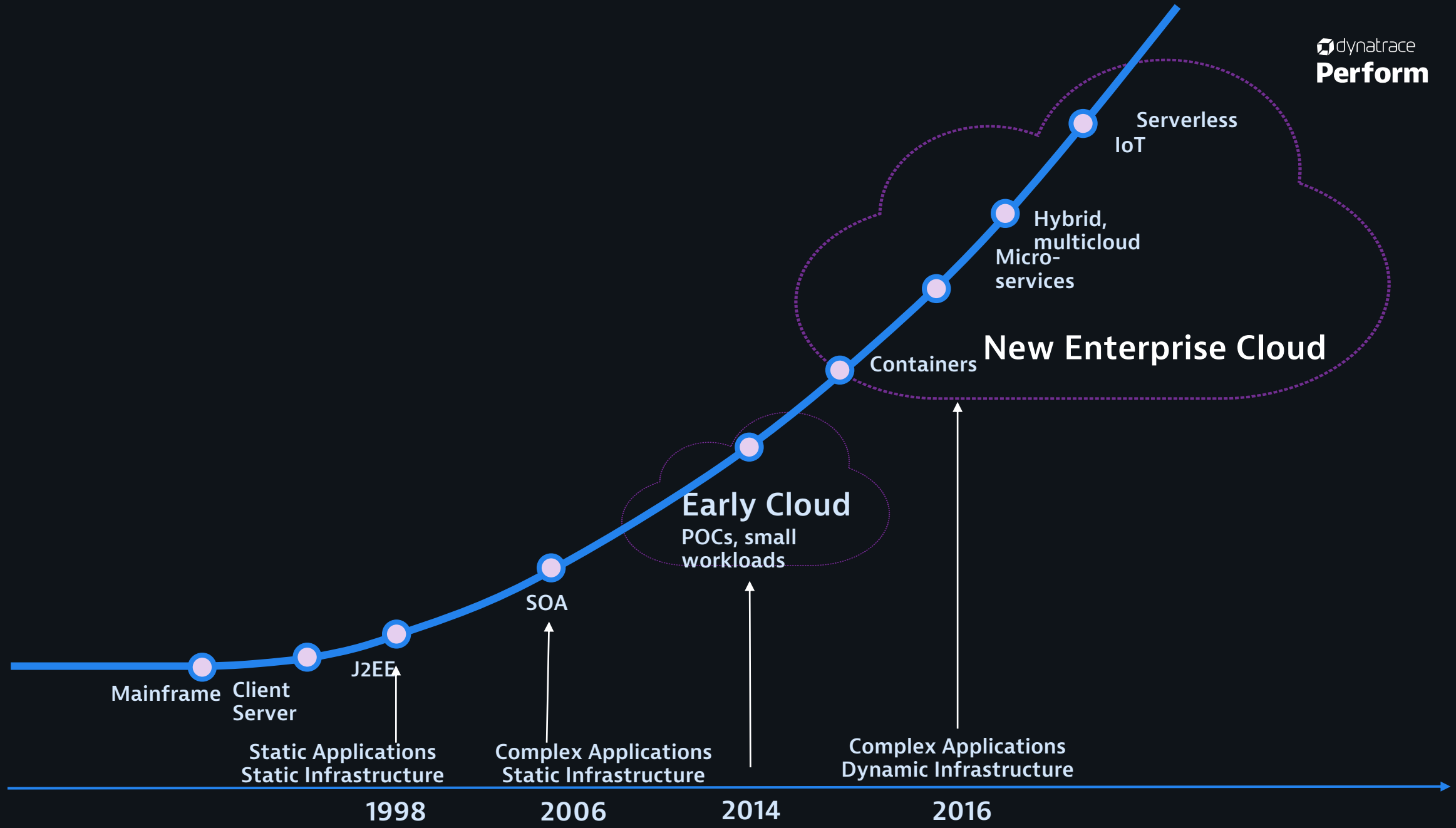
Go beyond APM with Software Intelligence for the enterprise cloud

Steve Tack, SVP Products

dynatrace
Perform

Beyond APM


Serverless
IoT
Hybrid,
multicloud
Micro-
services
New Enterprise Cloud
Containers
Early Cloud
POCs, small
workloads
SOA
J2EE
Mainframe
Client
Server
Static Applications
Static Infrastructure
Complex Applications
Static Infrastructure
Complex Applications
Dynamic Infrastructure
1998
2006
2014
2016

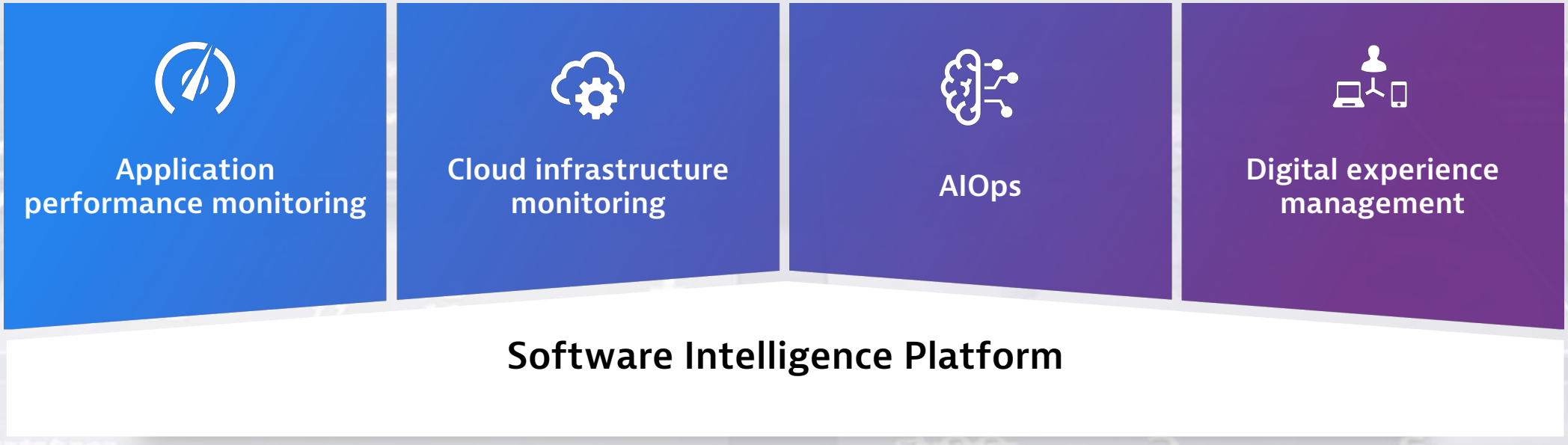
Convergence of Apps and Infra

Automation at web-scale

DevOps & new org collaboration

Digital experience as true ROI measure

Go beyond APM with the Dynatrace all-in-one platform



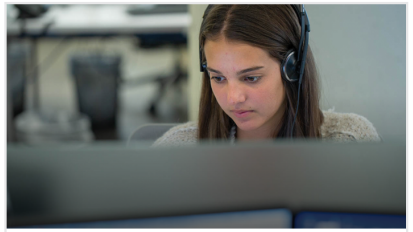
Product news

What's new – Product updates & new feature announcements

Show all categories

Dynatrace Managed feature update, Version 1.160

January 23, 2019 Wolfgang Schreiner

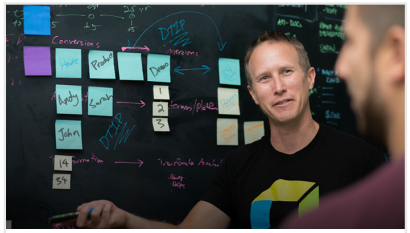


Get ready for extended container-monitoring capabilities

January 21, 2019 Alois Mayr

Extend native Cloud Foundry support with BOSH Process Manager (bpm) monitoring (Beta)

January 21, 2019 Alois Mayr

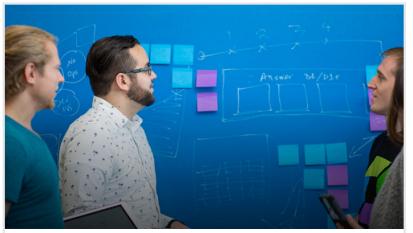


OneAgent & ActiveGate release notes (version 1.159)

January 21, 2019 Bartek Gatz

Improved host memory metrics now include Reclaimable memory

January 21, 2019 Bartek Gatz



Get automatic code-level insights into your Go applications and cloud platform components

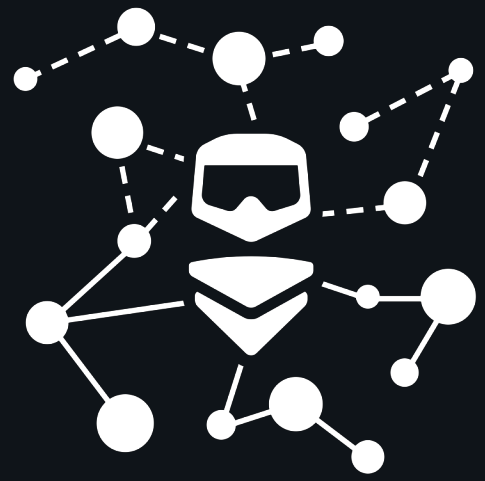
January 17, 2019 Gernot Reisinger

all-in-one

end-to-end

enterprise-grade

all-in-one

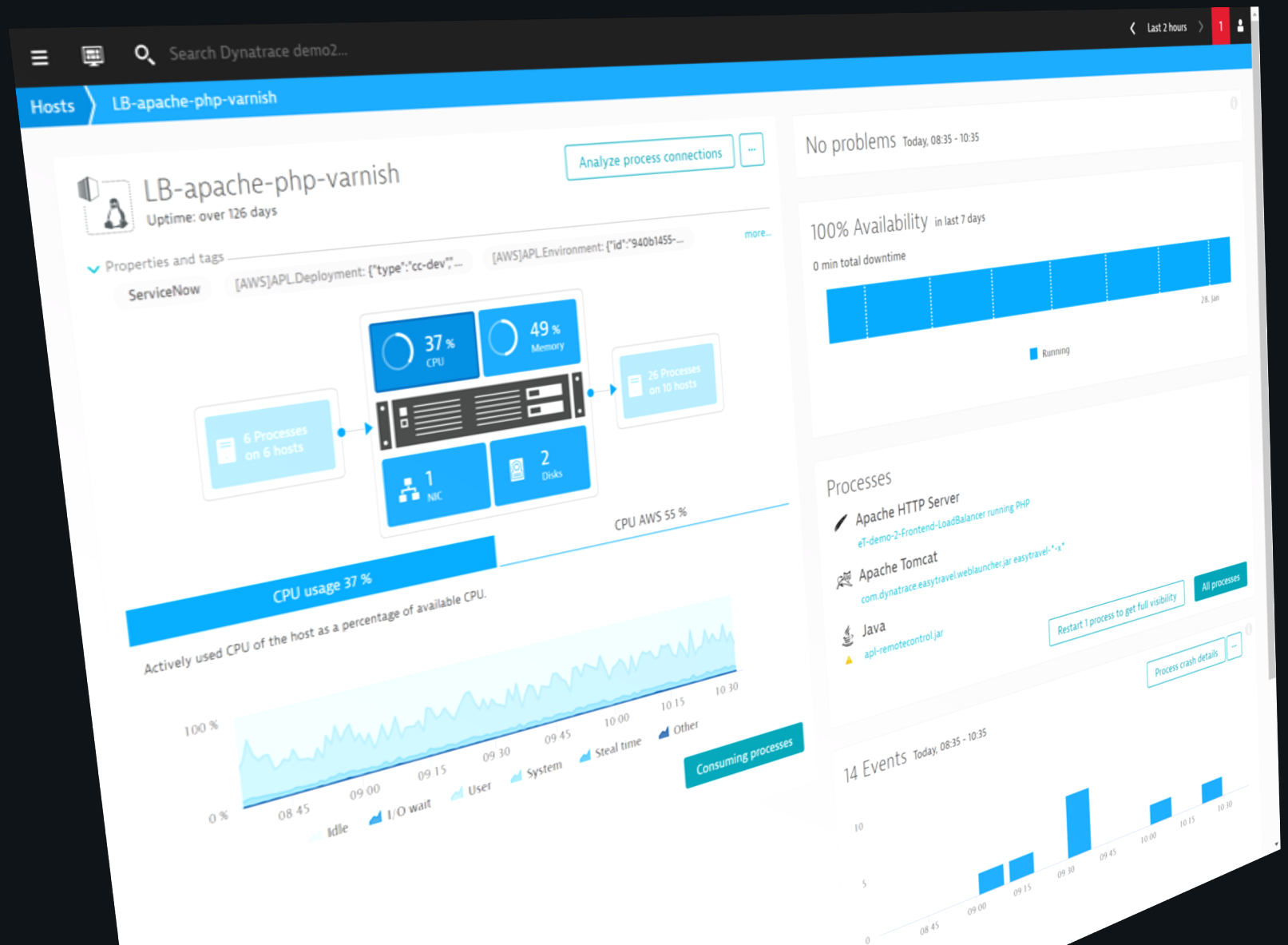


end-to-end

enterprise-grade

AI-powered cloud infrastructure monitoring

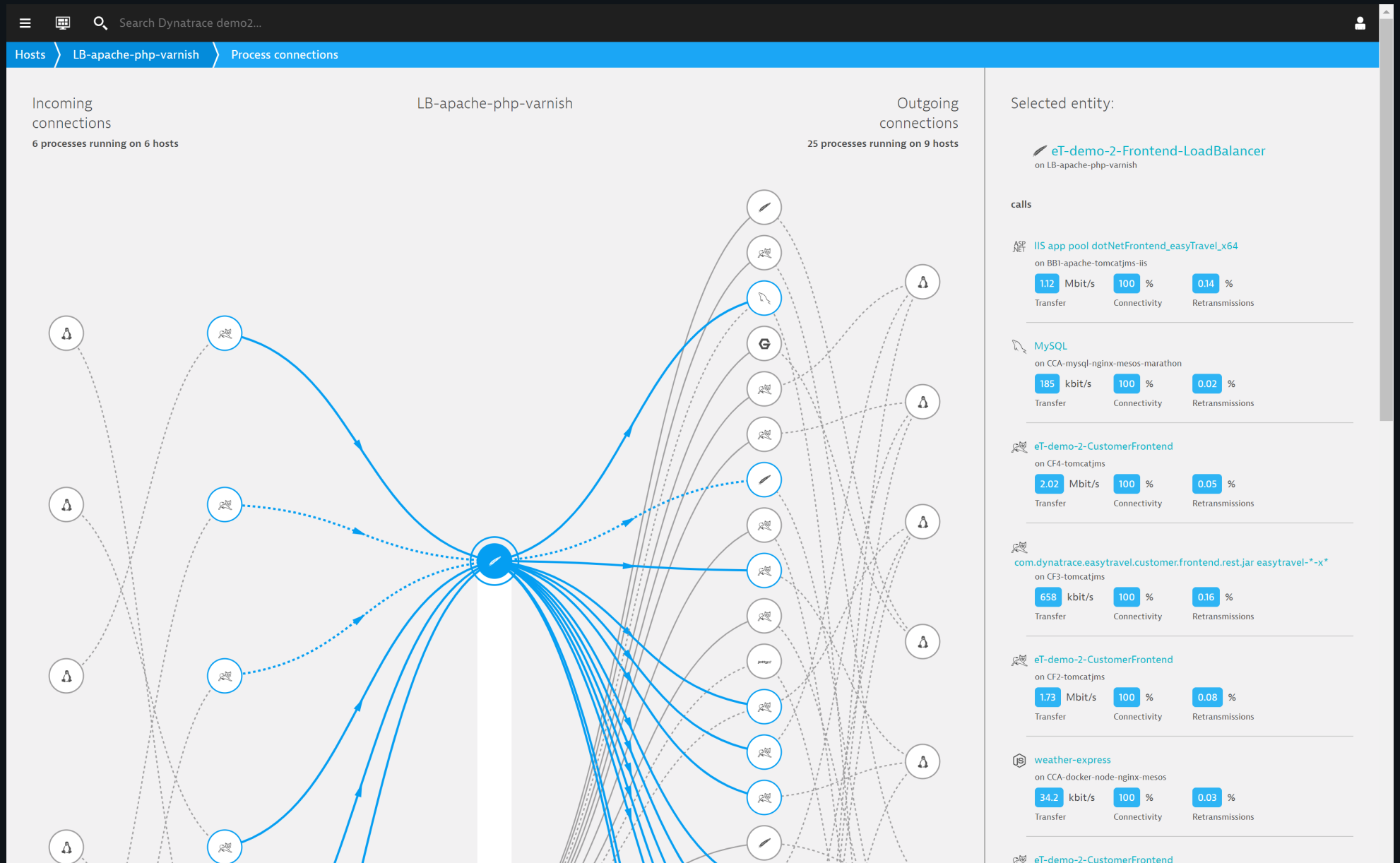
dynatrace Perform



- Plugins
- Log ingestion
- Processes
- Containers and orchestration
- Hosts
- Cloud and virtualization

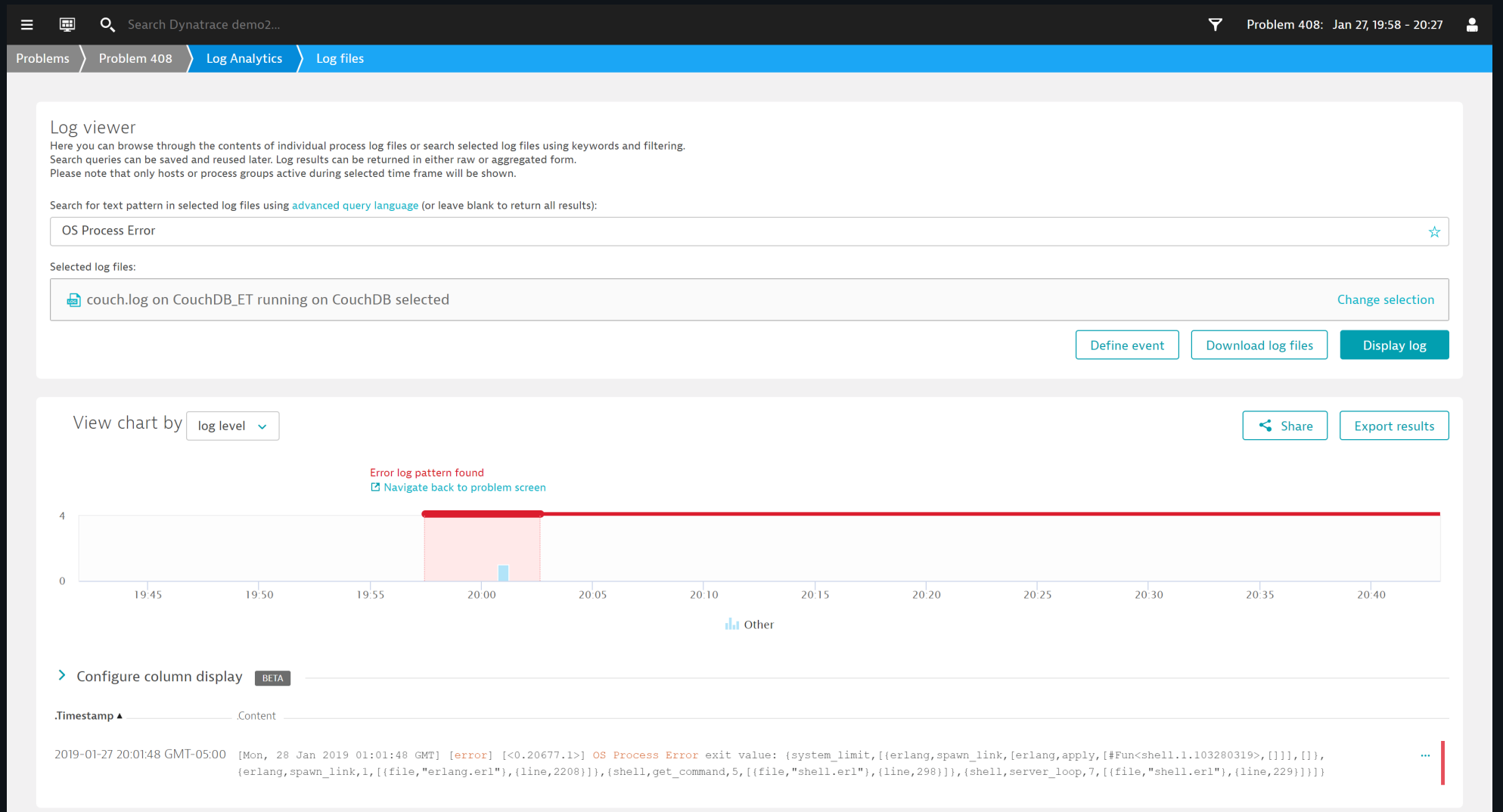
Process health and communication, built for cloud

dynatrace Perform



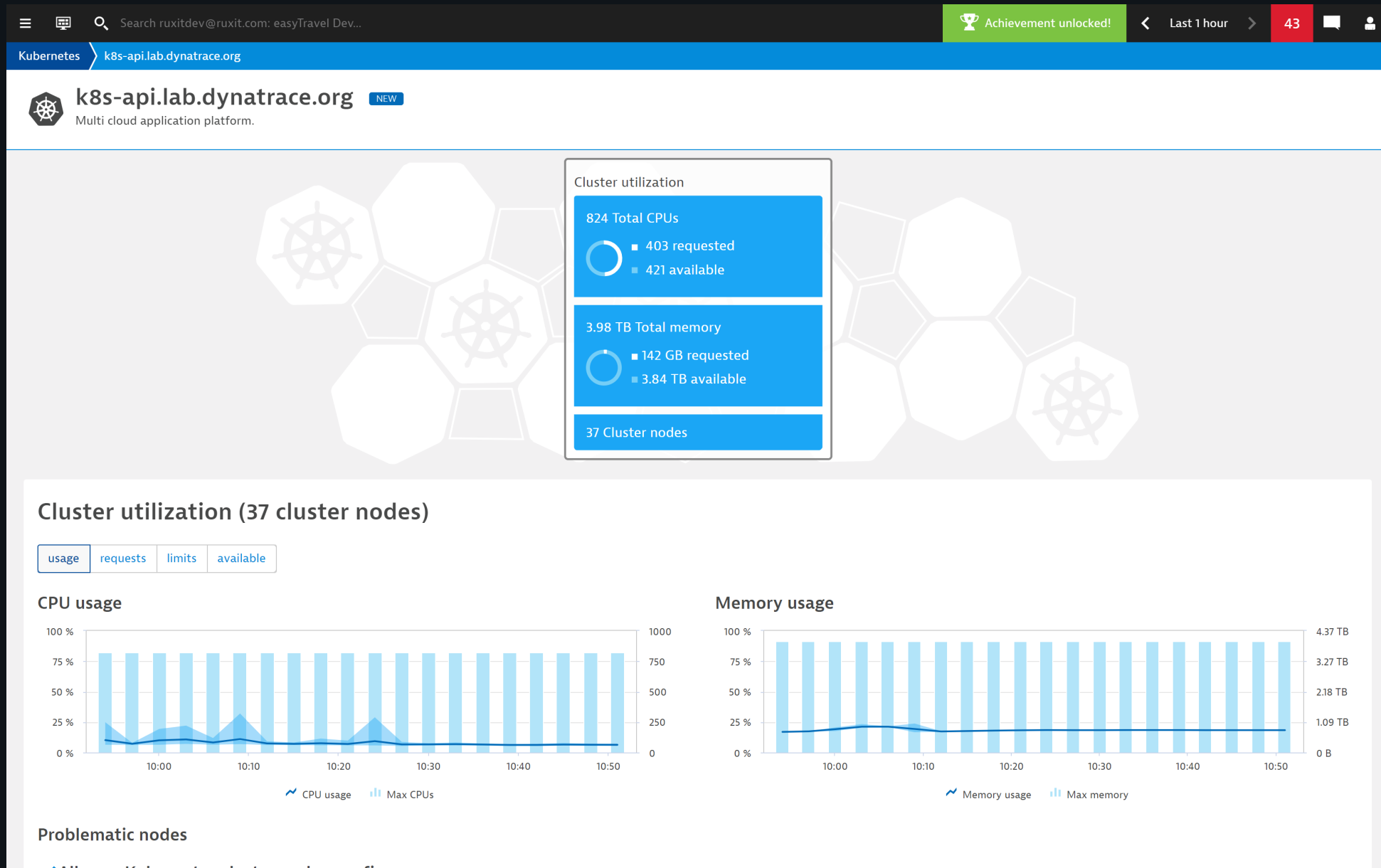
Log entry problem analysis in-context

dynatrace Perform



PaaS platform and component monitoring

dynatrace Perform



PaaS platform and component monitoring

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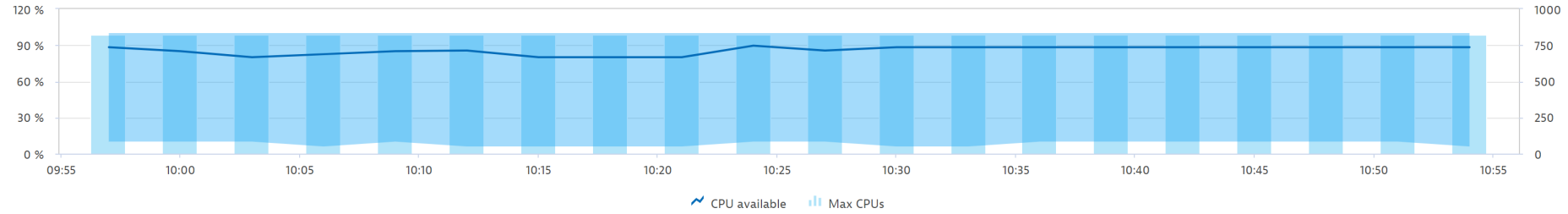
Search ruxitdev@ruxit.com: easyTravel Dev... | Achievement unlocked! | Last 1 hour | 43

Kubernetes > k8s-api.lab.dynatrace.org > Node analysis

Kubernetes nodes analysis NEW

of k8s-api.lab.dynatrace.org environment. Analyze performance of cluster nodes.

Show CPU | usage | requests | limits | available



0 Nodes with open problems

✓ All your Kubernetes cluster nodes are fine.

37 Nodes

Node	Status	CPU usage	CPU requested	CPU limits	Memory usage	Memory requested	Memory limits	Details
ls-ub-h05.dynatrace.vmta	Ready	0%	48 CPU	82 CPU	0%	4 GB	8 GB	
ls-ub-h03.dynatrace.vmta	Ready	0%	100 mCPU	300 mCPU	0%	104 GB	115 GB	
gr-ub-h06.lab.dynatrace.org	Ready	0%	100 mCPU	300 mCPU	0%	512 MB	1.5 GB	
ls-ub-h13.dynatrace.vmta	Ready	0%	9.85 CPU	300 mCPU	0%	512 MB	1.5 GB	
ls-ub-h07.dynatrace.vmta	Ready	0%	10.1 CPU	40.3 CPU	0%	512 MB	1.5 GB	
ls-ub-h01.dynatrace.vmta	Ready	0%	2 CPU	6 CPU	0%	5 GB	6.75 GB	

stay tuned for more on DEM tomorrow…

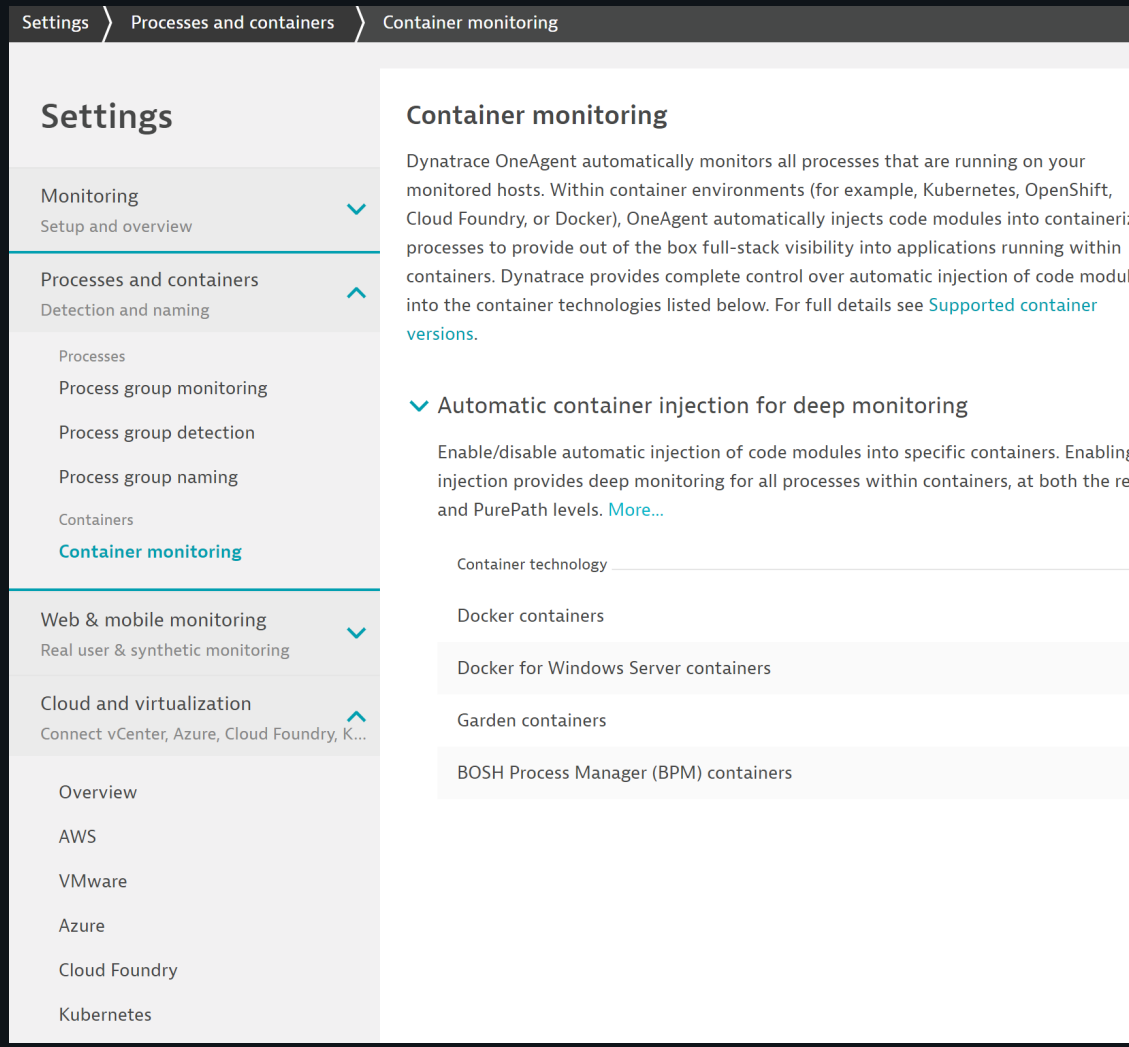
all-in-one

end-to-end

enterprise-grade

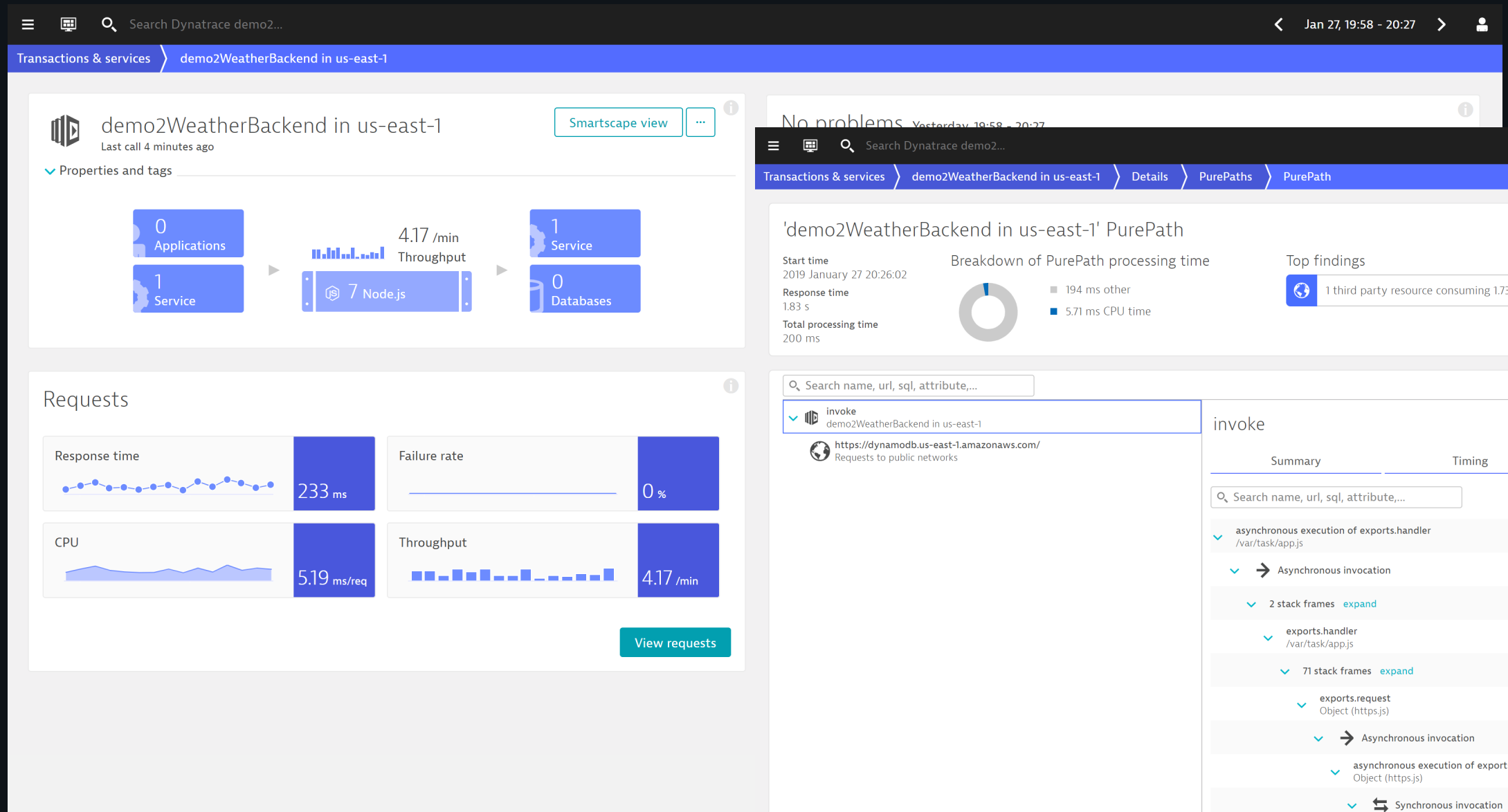
Modern container monitoring

dynatrace Perform



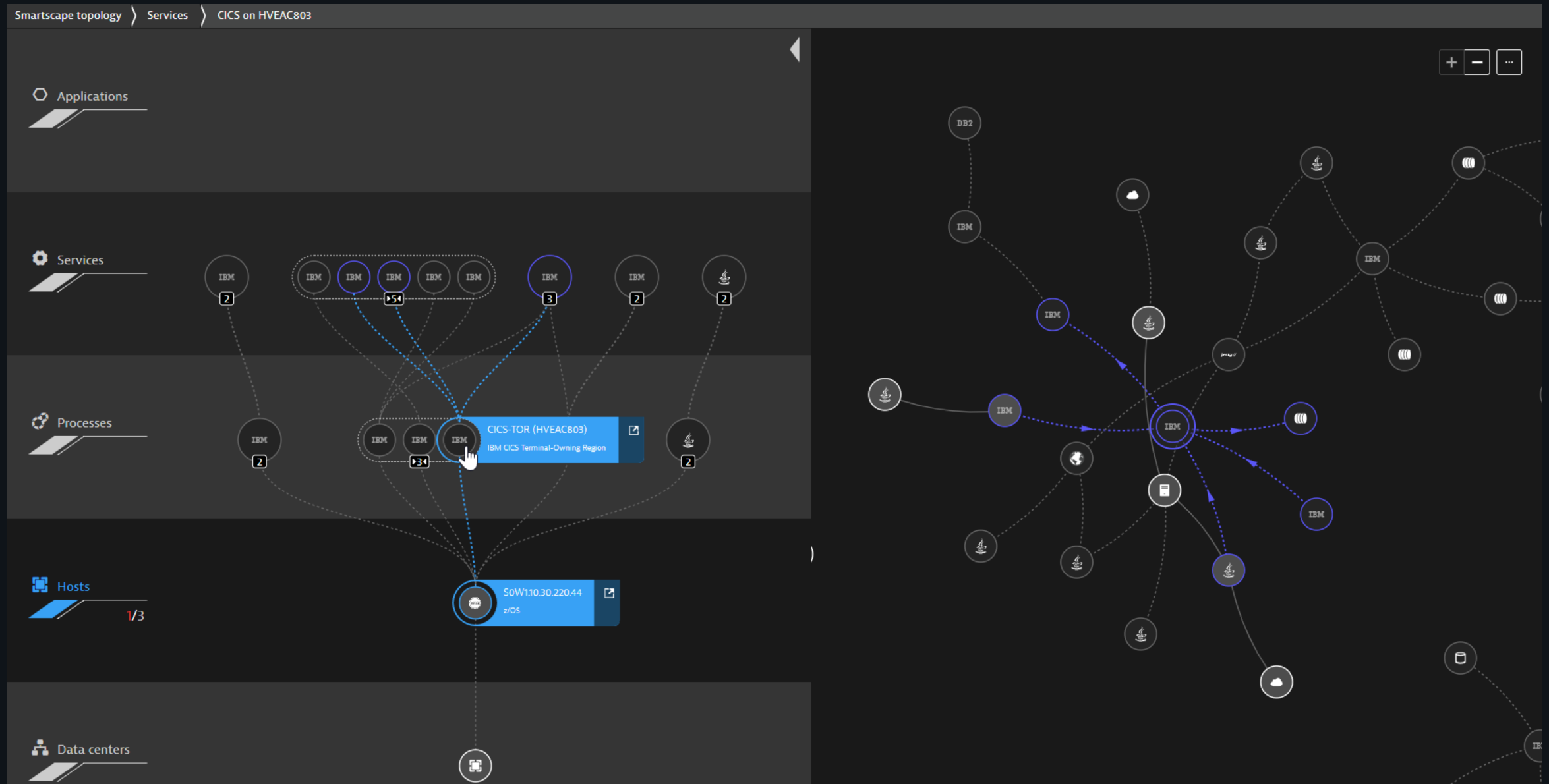
Serverless and function insights

dynatrace Perform



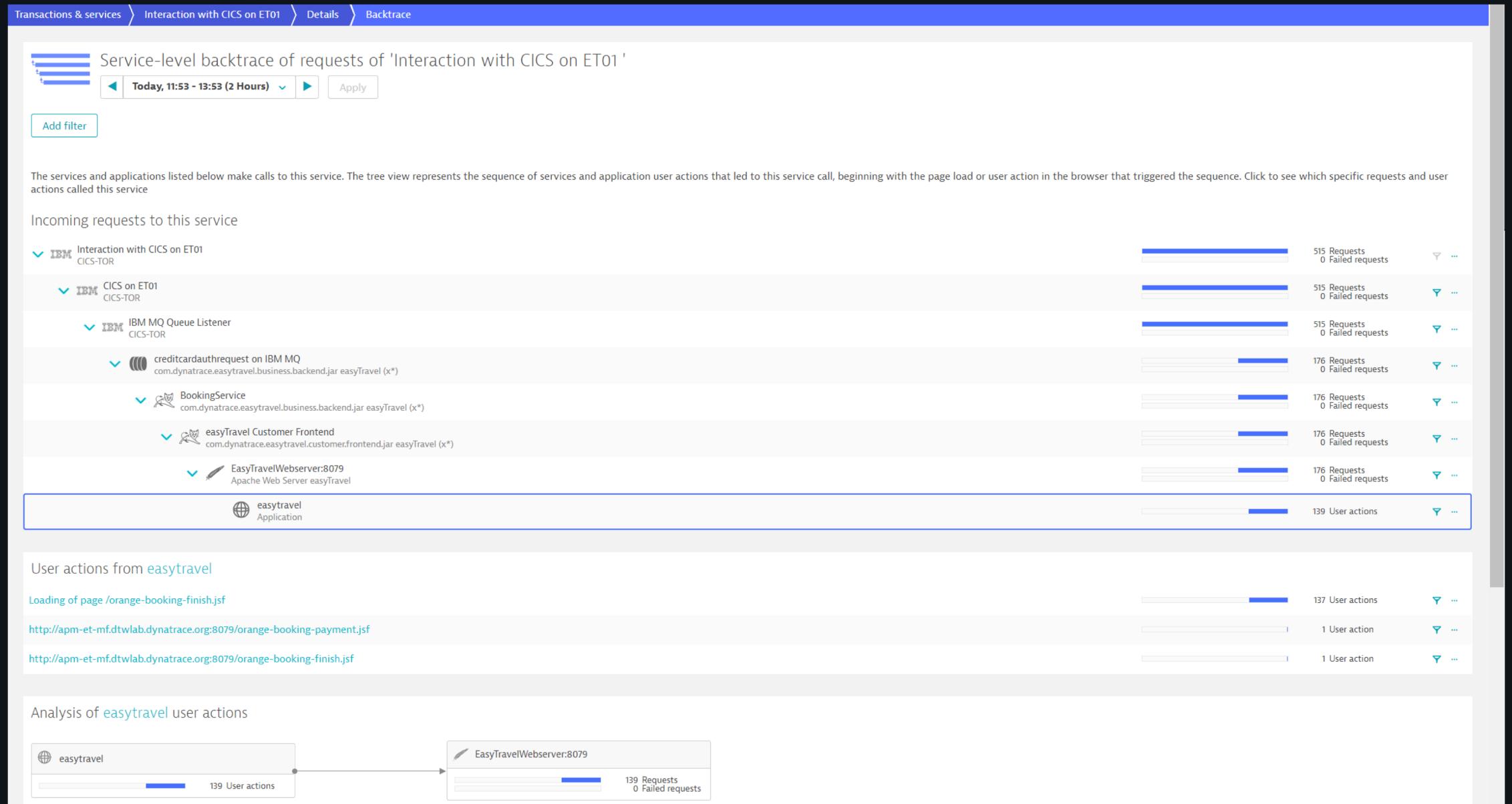
Cloud to the mainframe & everything in between

dynatrace Perform



Cloud to the mainframe & everything in between

dynatrace Perform



all-in-one

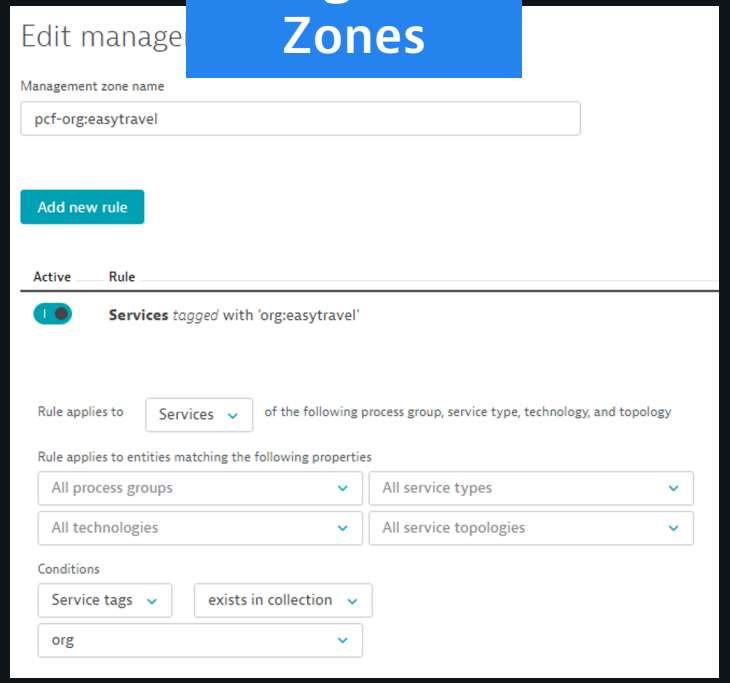
end-to-end

enterprise-grade

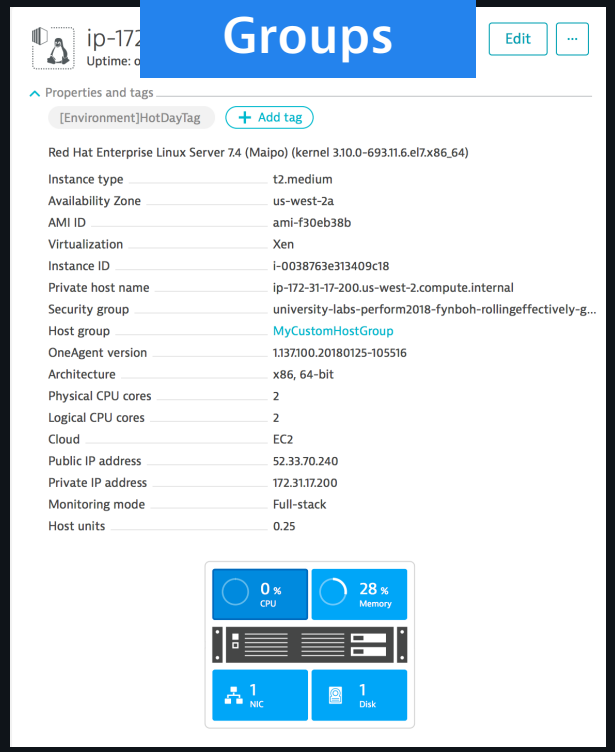
Manage web-scale with ease

dynatrace Perform

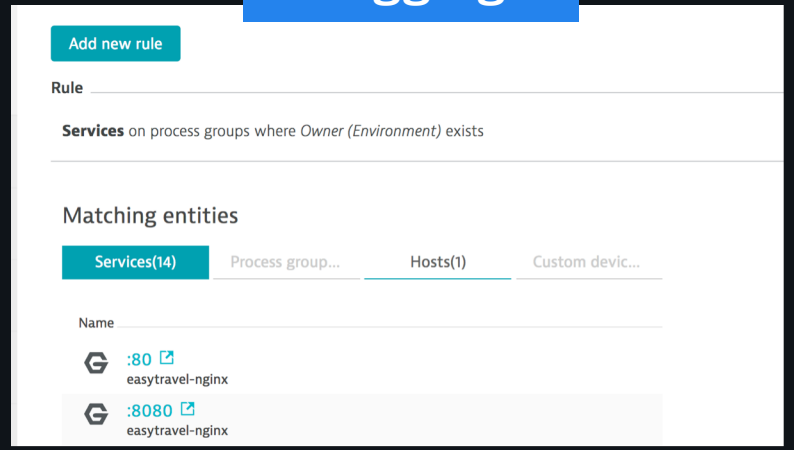
Mgmt. Zones



Host Groups



Tagging



API-first design

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Dynatrace cluster
Updates are fully automated and zero downtime

OneAgent roll-out
Zero-config and fully scriptable; automatic & secure updates

Configuration API
DevOps need automation scripts <config-is-code>

Multi tenancy
Auto-setup and configure thousands of environments

OPENAPI INITIATIVE

API-first design

dynatrace Perform

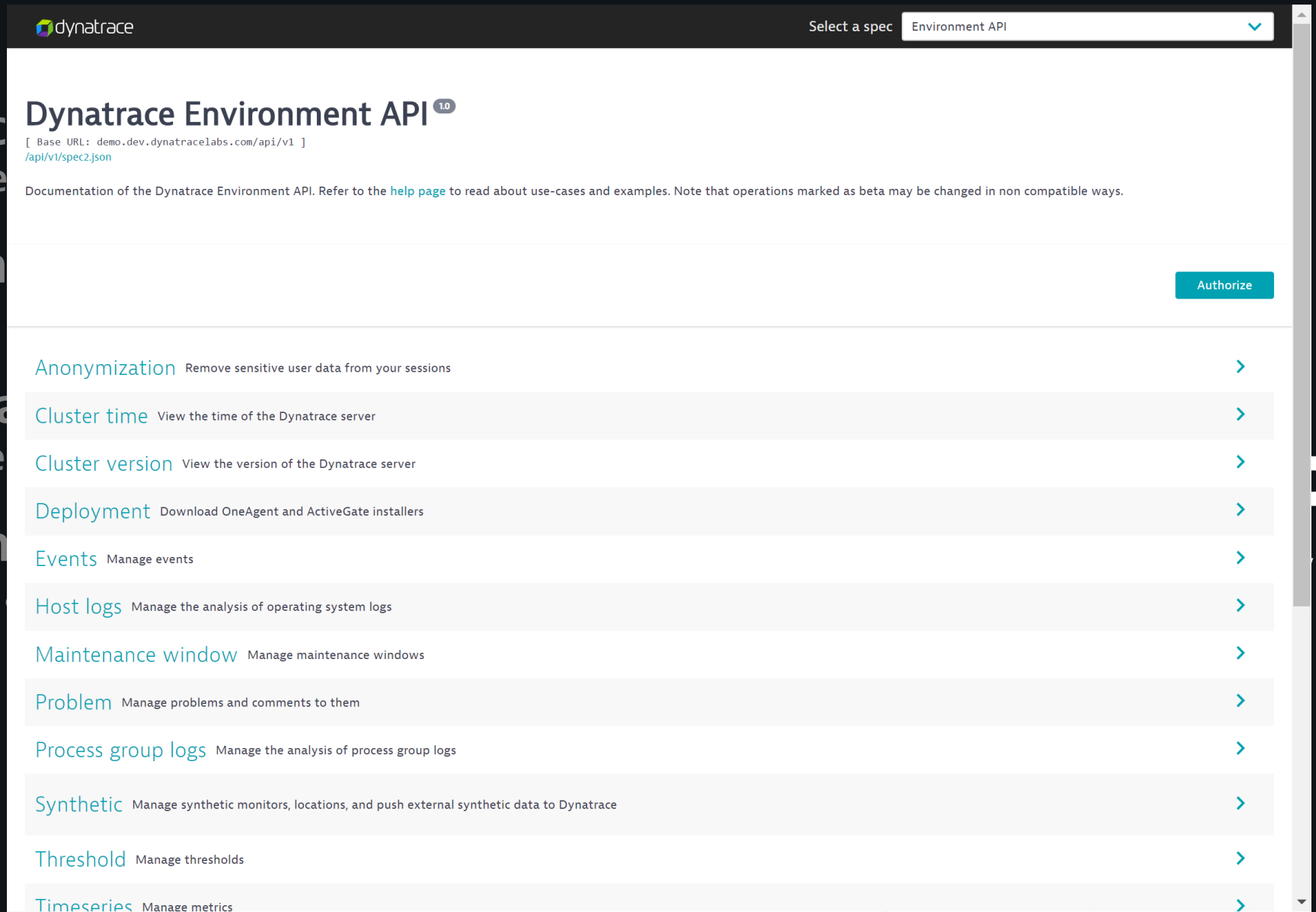
Dynatrac
Updates are

OneAgen
Zero-config

Configura
DevOps nee

Multi ten
Auto-setup

PI
E



Deterministic answers for automation and self-healing

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Continuous Delivery

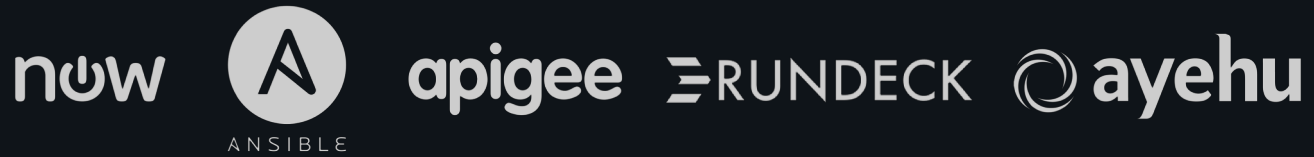
Application Platforms

Cloud Platforms

Version Control

Testing Platforms

Runbook Automation



Collaboration

Put your IT Operations on auto-pilot

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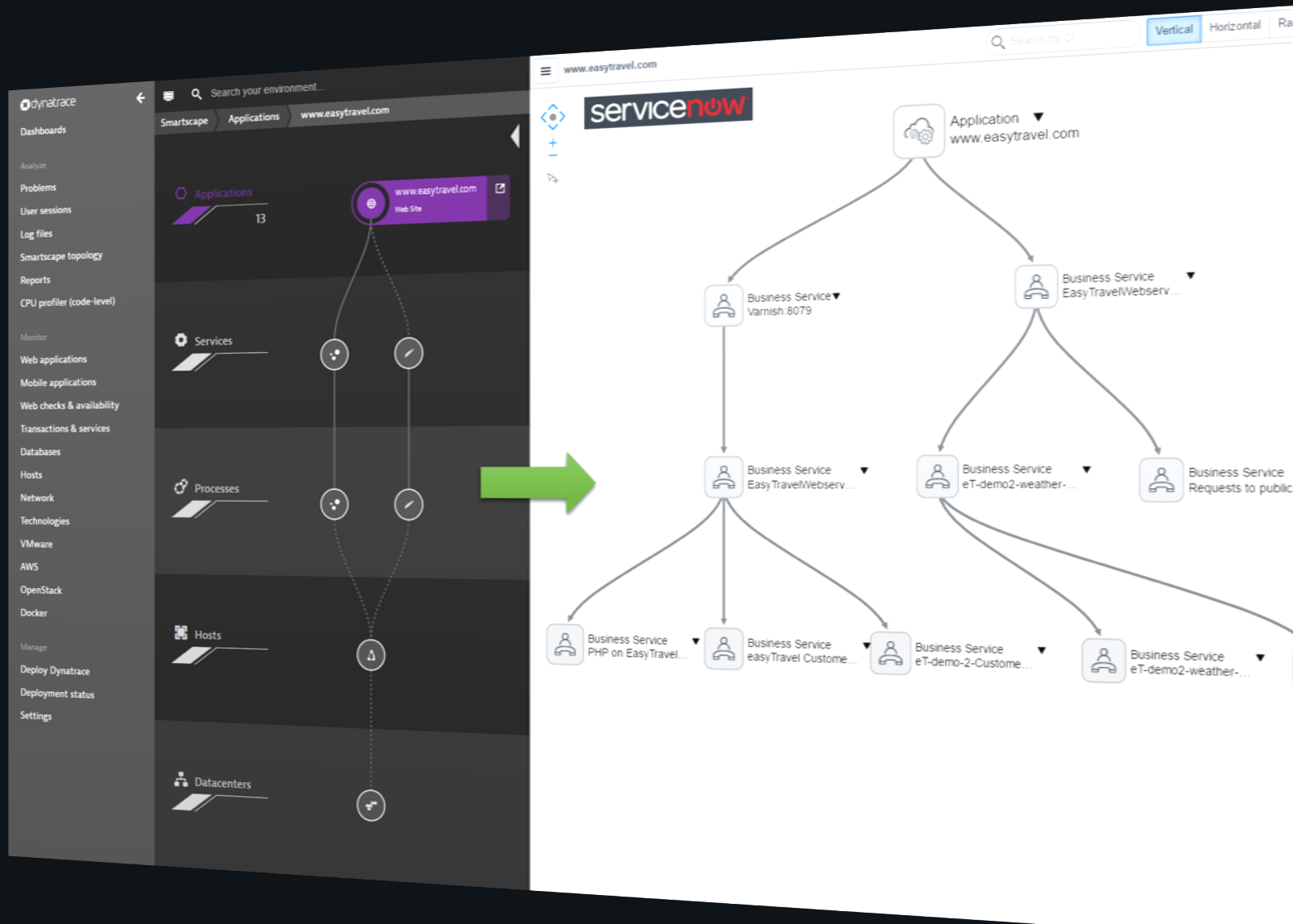
now™ CERTIFIED



Secure and compliant above all else

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High availability

FIPS 140-2

HTTPS/TLS

GDPR

Multi-data center

Management Zones

SSO

Segmentation

Democratize information

dynatrace Perform

dynatrace Sign in

Performance breakdown

Timeframe: Last 2 hours Management zone: easyTravel Owned by roman.windischhofer@ruxit.com

Overall health

Problems

1

Application health

All fine 4

Service health

All fine 6

Host health

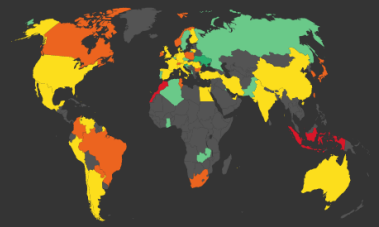
All fine 2

Database health

User behavior

Worldmap (Apdex)

easytravel.lab.dynatrace.org | most activ...



Live user activity

183 Live users

42 Live locations

New users

Recurring

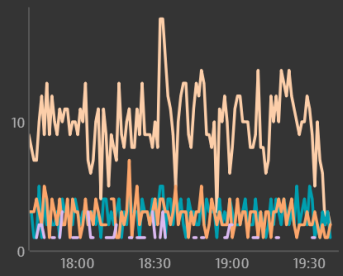
Top applications by live users

easytravel....natrace.org	133
easytravel-...natrace.org	33
easytravel-...natrace.org	12

Top converting apps

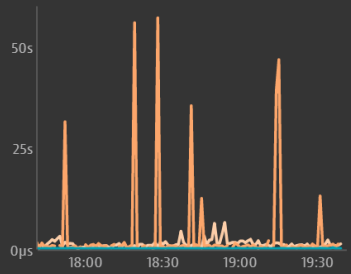
Frontend

Active user sessions



Active sessions (Count)

Visually complete for load actions



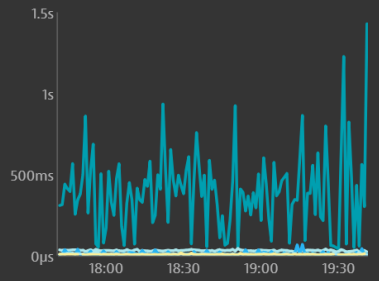
Visually complete for load actions (Median)

Most affected user actions by JavaScript errors

0.18 /min Loading of page /orange.jsf

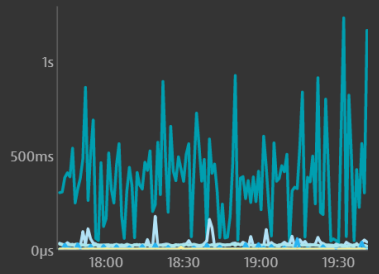
Backend

Client side response time



Client side response time

Server side response time

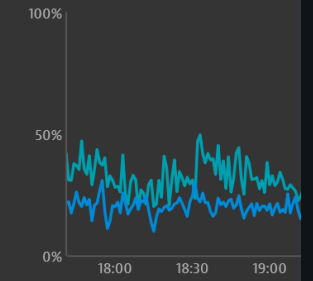


Server side response time

Failure rate

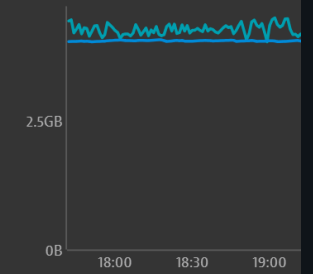
Infrastructure & networ

Host CPU usage



CPU usage

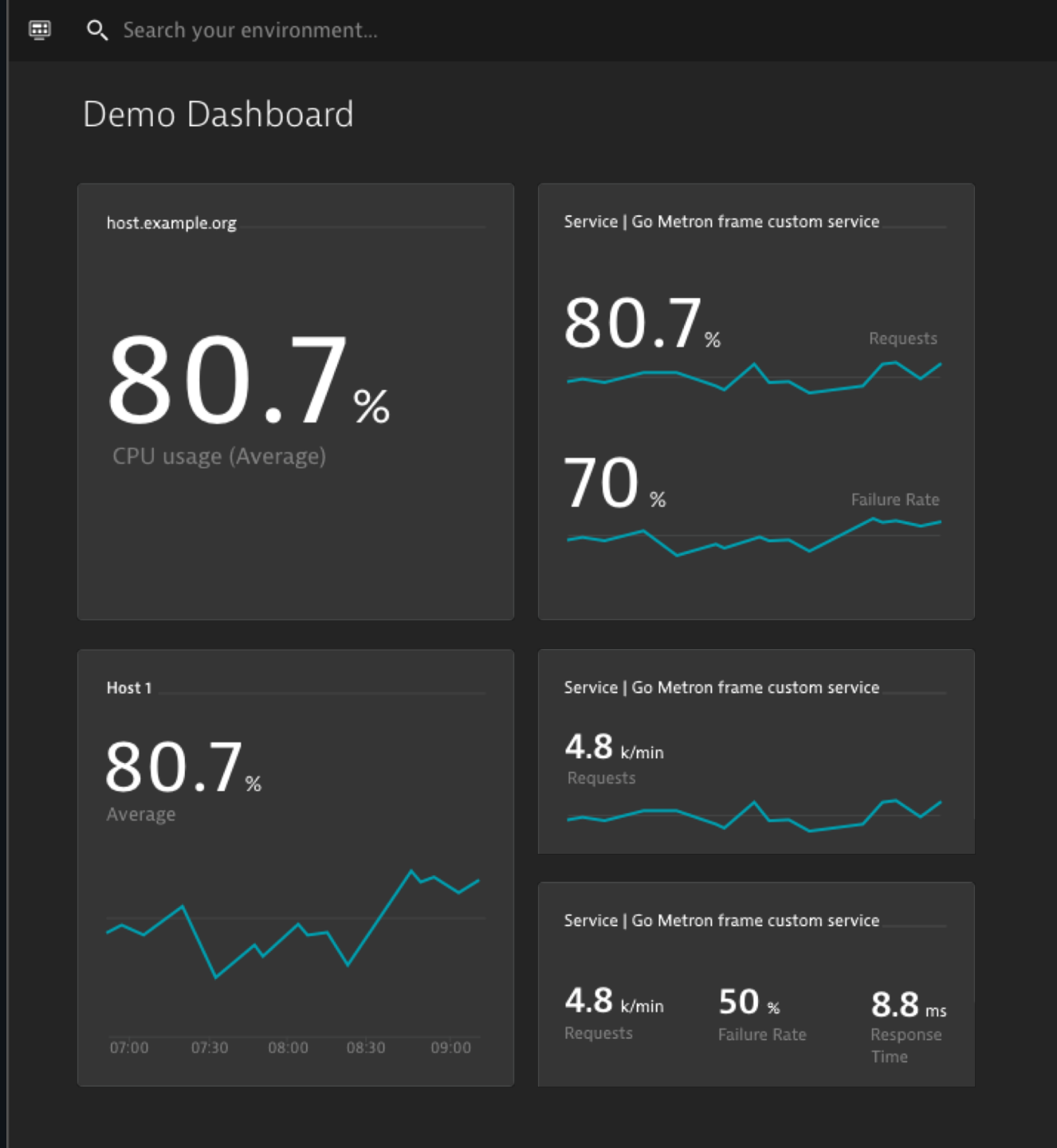
Host memory usage



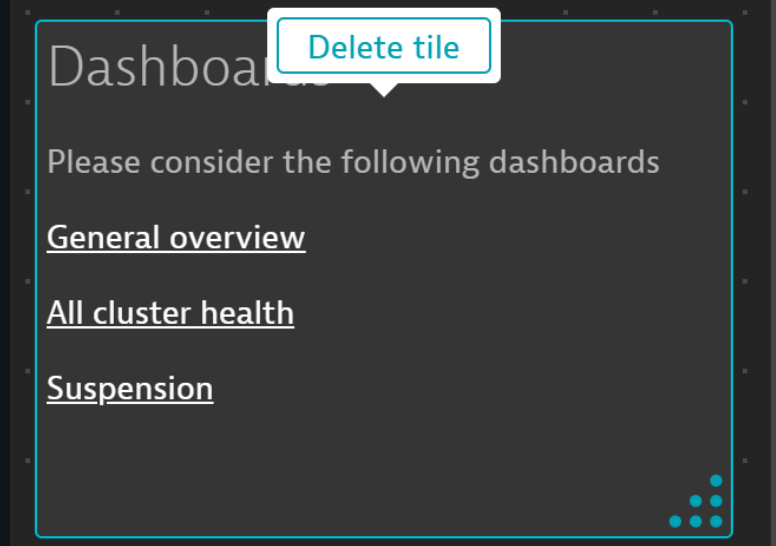
Memory Used

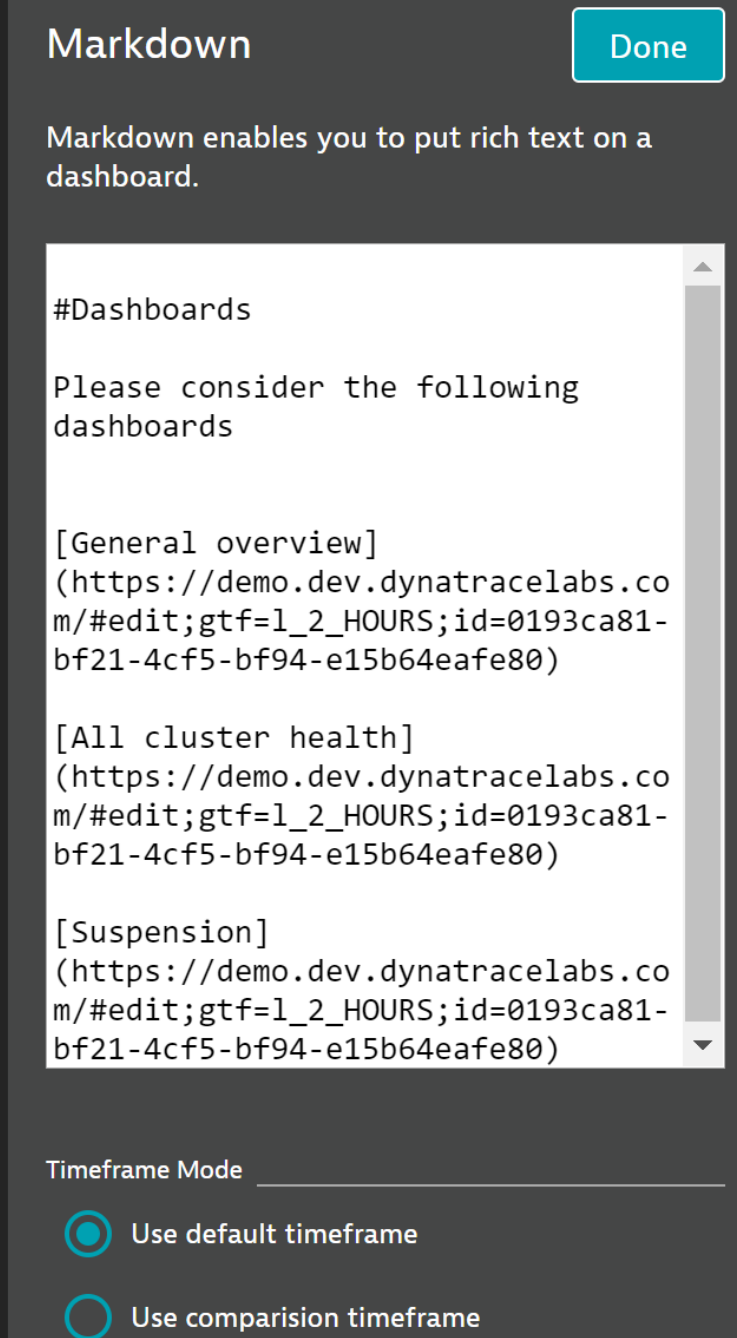
Network metrics

business KPIs
single-value metrics
timeframe compares



Personalize, drive workflow and more





Increase the Dynatrace audience

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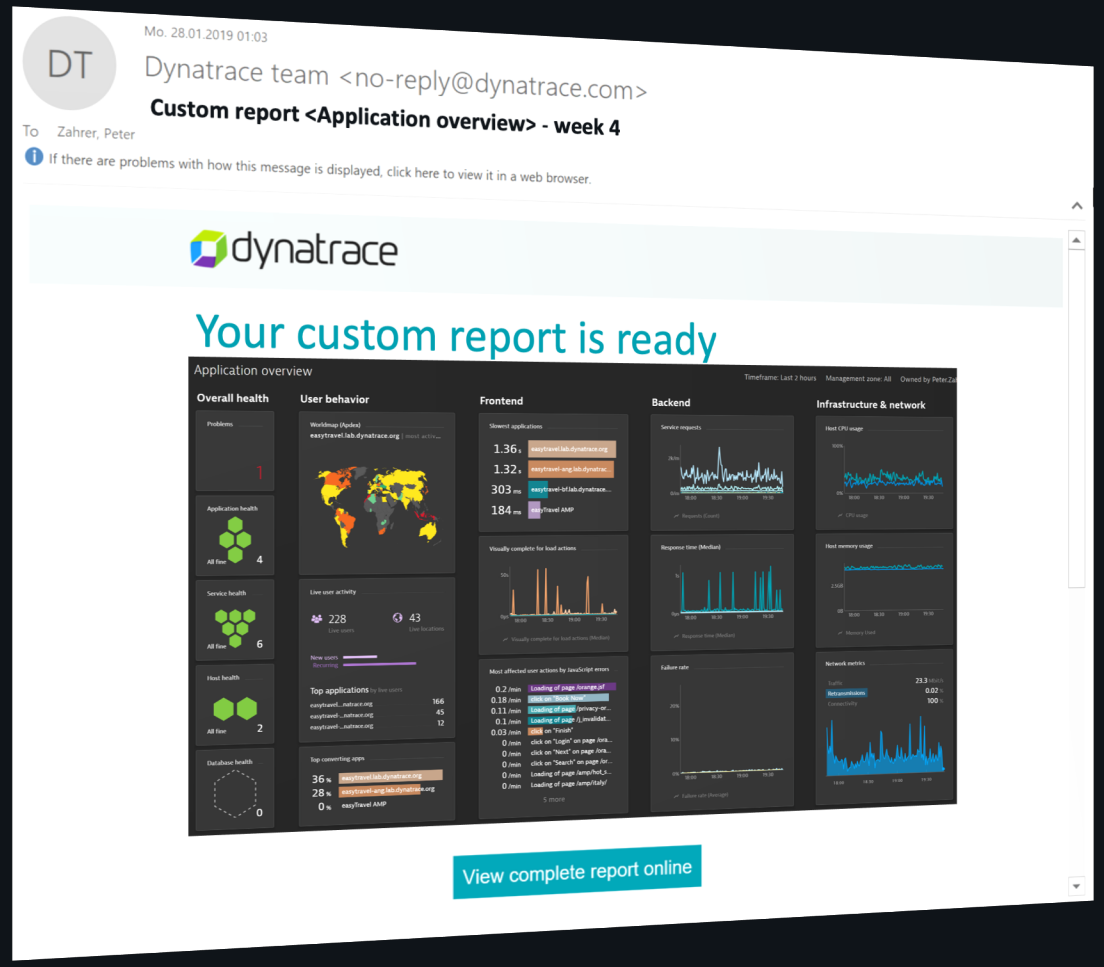
Perform



Democratize information

dynatrace Perform

New Home

Edit ···

Overall health

Problems

17 /22

Application health

All fine 317

Service health

5700

Host health

3016

Database health

All fine 47

User behavior

Apdex

RUM Default Application | most active ap...

Live user activity

Live user activity

8,010 Live users

218 Live locations

New users
Recurring

Top applications by live users

RUM Default Application	7,613
easyTravel Demo	179
easyTravel....natrace.org	161

Top converting apps

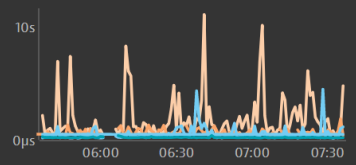
35 %	easytravel.lab.dynatrace.org
0 %	easyTravel AMP
0 %	RUM Default Application

Frontend

Slowest applications

1.36 s	easytravel.lab.dynatrace.org
1 s	RUM Default Application
919 ms	easytravel-ang.lab.dynatrace....
454 ms	easyTravel AMP - staging
383 ms	Permanent Docker
288 ms	easytravel-bf.lab.dynatrace.org
180 ms	easyTravel AMP

Visually complete for load actions



Visually complete for load actions (Median)

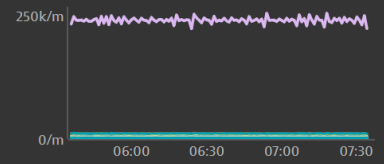
Most affected user actions by JavaScript errors

0.31 /min	Loading of page /orange.jsf
0.13 /min	Loading of page /j_invalidat...
0.09 /min	click on "Book Now"
0.05 /min	Loading of page /privacy-or...
0.02 /min	click on "Finish"
0 /min	click on "Login" on page /ora...
0 /min	click on "Next" on page /ora...
0 /min	click on "Search" on page /or...
0 /min	Loading of page /amp/hot_s...
0 /min	Loading of page /amp/italy/

5 more

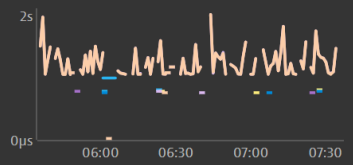
Backend

Service requests



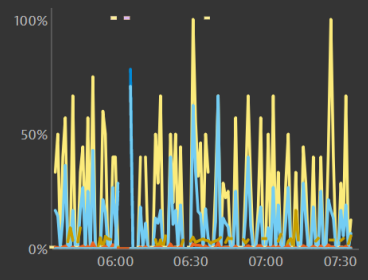
Requests (Count)

Response time (Median)



Response time (Median)

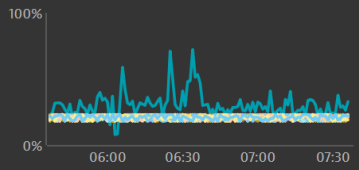
Failure rate



Failure rate (Average)

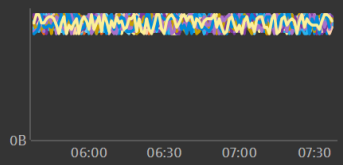
Infrastructure & network

Host CPU usage



CPU usage

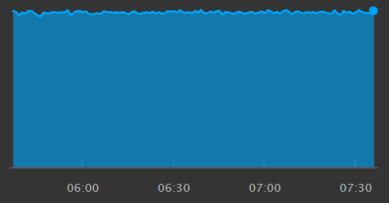
Host memory usage



Memory Used

Network metrics

Traffic	24.2 Gbit/s
Retransmissions	103 %
Connectivity	0 %



all-in-one

end-to-end

enterprise-grade

Go beyond APM with Dynatrace

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Application performance management

Microservices & containers	Code-level	Database monitoring
Lifecycle analytics	Transaction tracing	Monolith and mainframe

Cloud infrastructure monitoring

Cloud monitoring	Virtualization monitoring	Network monitoring
Container monitoring	Server monitoring	Log monitoring

AIOps

Continuous auto-discovery	Anomaly detection	Prediction
Automatic topology	Root cause analysis	Third party data & metrics

Digital experience management

Real user monitoring	Mobile app monitoring	RUM for SaaS vendors
Session replay	Synthetic monitoring	Digital experience insights

All-in-one software intelligence platform.

Thank you
dynatrace
Perform