Platform innovation – AI and openness

Steve Tack, SVP Products

dynatrace
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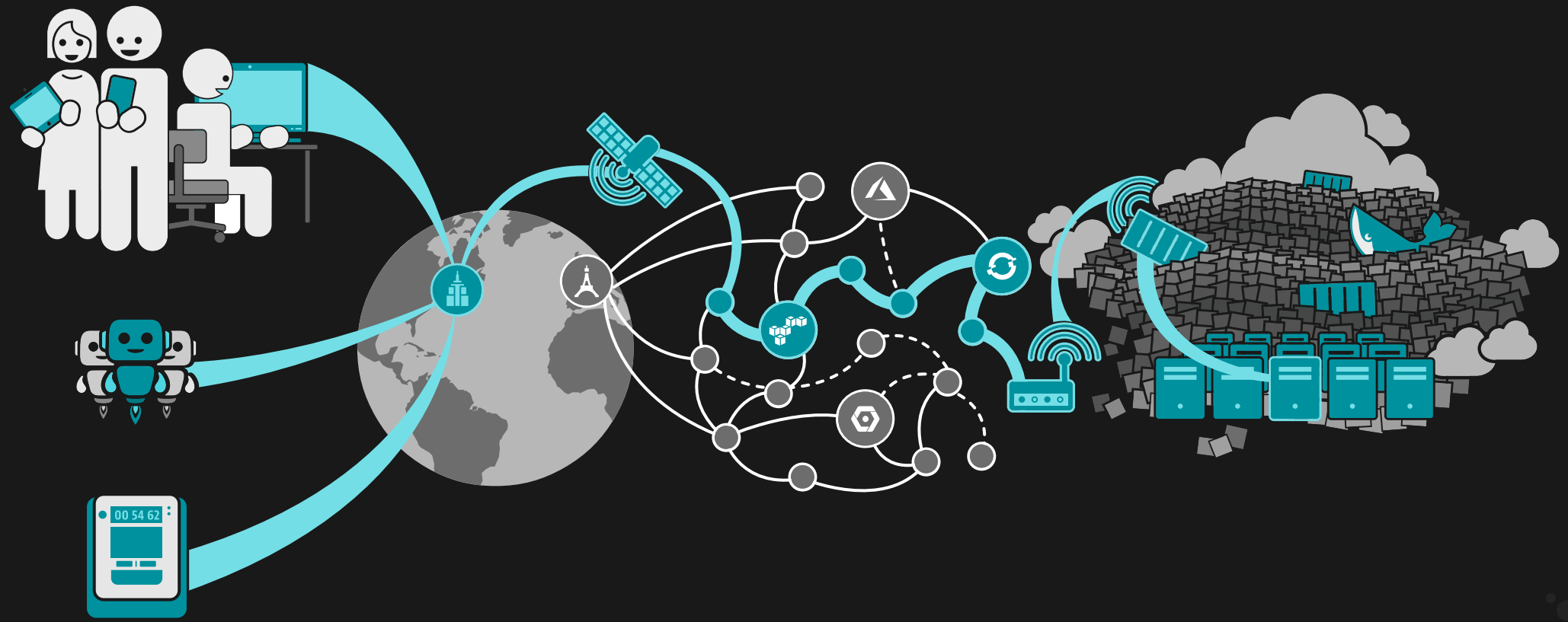
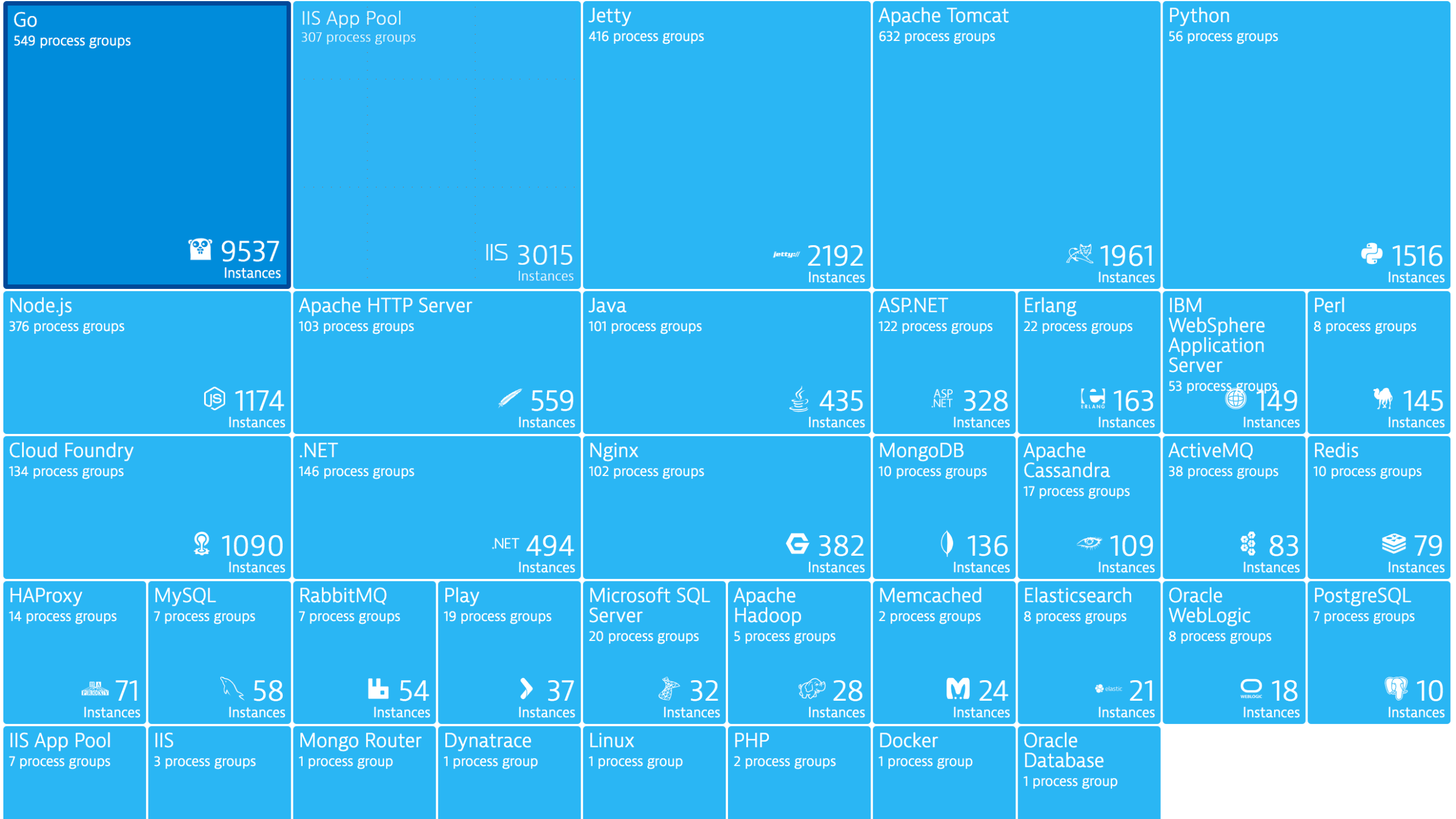
one year ago…
in a casino 1,056 feet away…


00 54 62


Go
549 process groups
9537
Instances
IIS App Pool
307 process groups
IIS 3015
Instances
Jetty
416 process groups
2192
Instances
Apache Tomcat
632 process groups
1961
Instances
Python
56 process groups
1516
Instances
Node.js
376 process groups
1174
Instances
Apache HTTP Server
103 process groups
559
Instances
Java
101 process groups
435
Instances
ASP.NET
122 process groups
328
Instances
Erlang
22 process groups
163
Instances
IBM WebSphere Application Server
53 process groups
149
Instances
Perl
8 process groups
145
Instances
Cloud Foundry
134 process groups
1090
Instances
.NET
146 process groups
494
Instances
Nginx
102 process groups
382
Instances
MongoDB
10 process groups
136
Instances
Apache Cassandra
17 process groups
109
Instances
ActiveMQ
38 process groups
83
Instances
Redis
10 process groups
79
Instances
HAProxy
14 process groups
71
Instances
MySQL
7 process groups
58
Instances
RabbitMQ
7 process groups
54
Instances
Play
19 process groups
37
Instances
Microsoft SQL Server
20 process groups
32
Instances
Apache Hadoop
5 process groups
28
Instances
Memcached
2 process groups
24
Instances
Elasticsearch
8 process groups
21
Instances
Oracle WebLogic
8 process groups
18
Instances
PostgreSQL
7 process groups
10
Instances
IIS App Pool
7 process groups
IIS
3 process groups
Mongo Router
1 process group
Dynatrace
1 process group
Linux
1 process group
PHP
2 process groups
Docker
1 process group
Oracle Database
1 process group

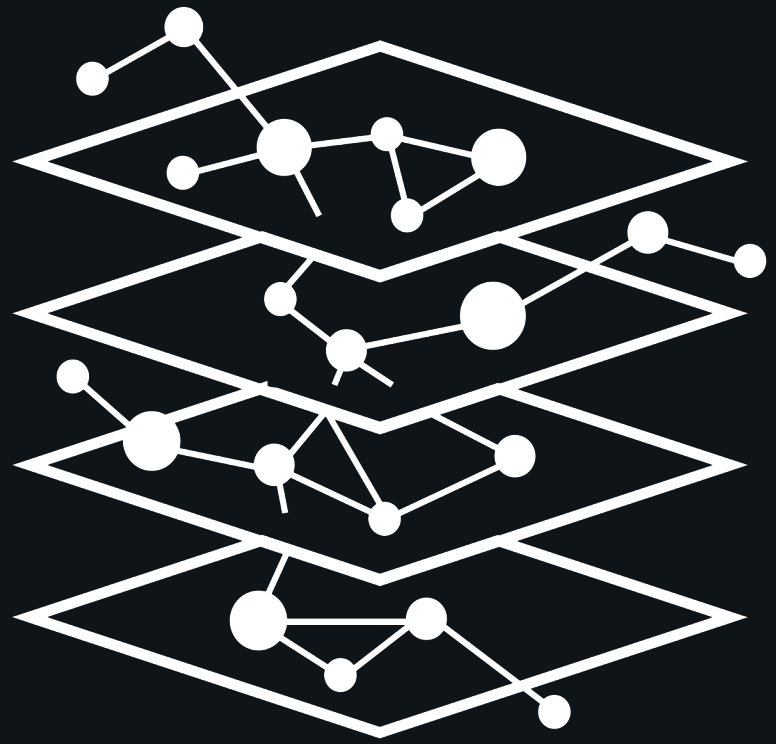
OneAgent

automatic, full-stack instrumentation

one customer environment...

700,000,000

model updates per day



Smartscape

real-time topology model

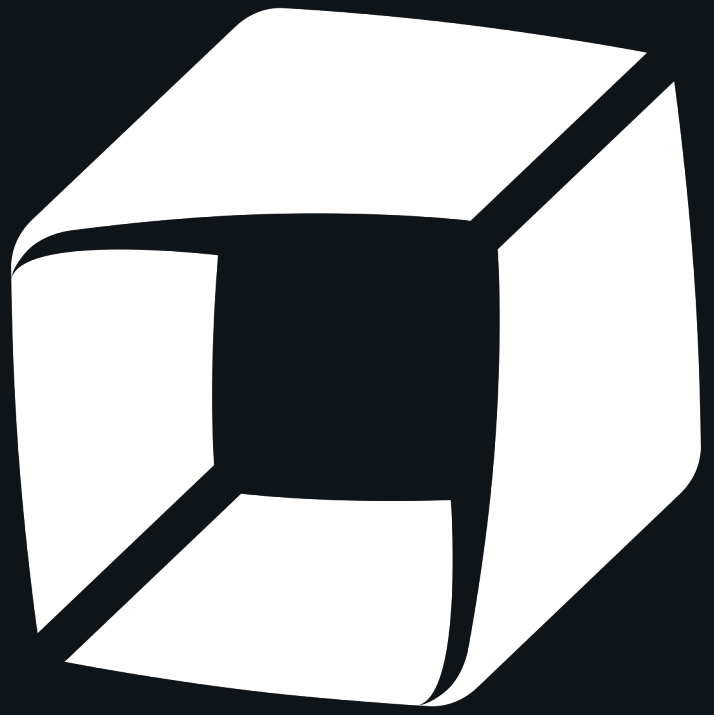
one customer environment...

235,000,000,000

dependencies analyzed per problem

Davis

deterministic AI engine



Dynatrace

open software intelligence platform

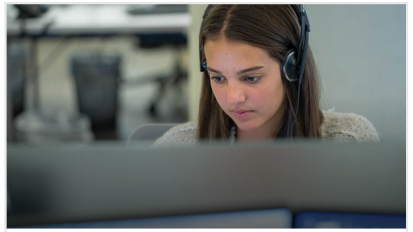
Product news

What's new – Product updates & new feature announcements

Show all categories

Dynatrace Managed feature update, Version 1.160

January 23, 2019 Wolfgang Schreiner

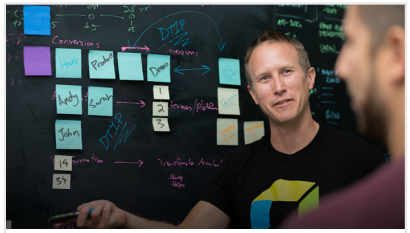


Get ready for extended container-monitoring capabilities

January 21, 2019 Alois Mayr

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

January 21, 2019 Alois Mayr

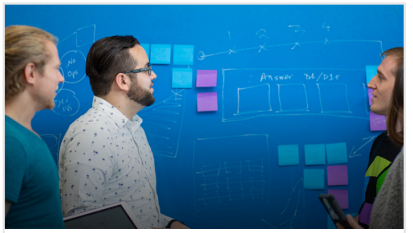


OneAgent & ActiveGate release notes (version 1.159)

January 21, 2019 Bartek Gatz

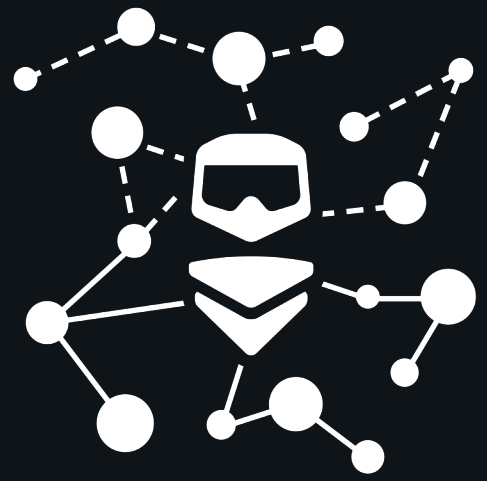
Improved host memory metrics now include Reclaimable memory

January 21, 2019 Bartek Gatz



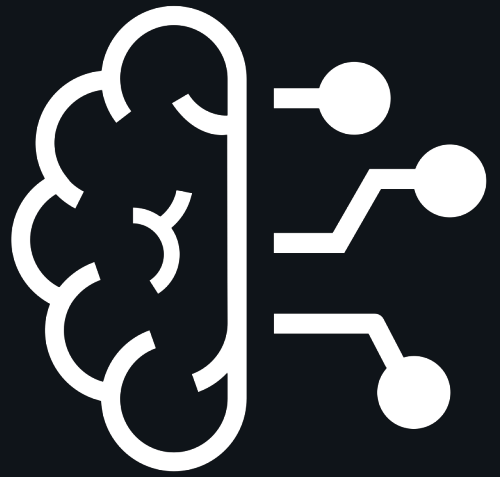
Get automatic code-level insights into your Go applications and cloud platform components

January 17, 2019 Gernot Reisinger



automatic

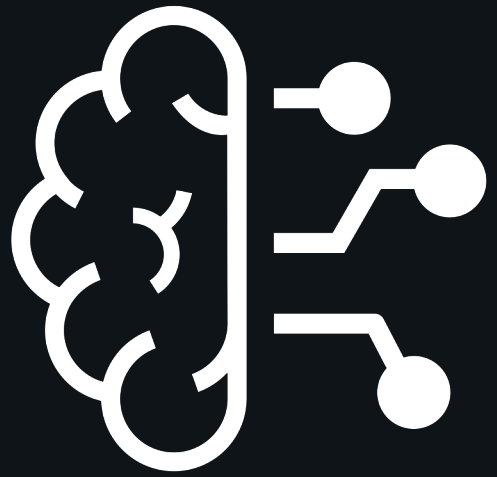
smart



open

automatic

smart



open

Full-stack PaaS visibility

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Node.js code-level visibility

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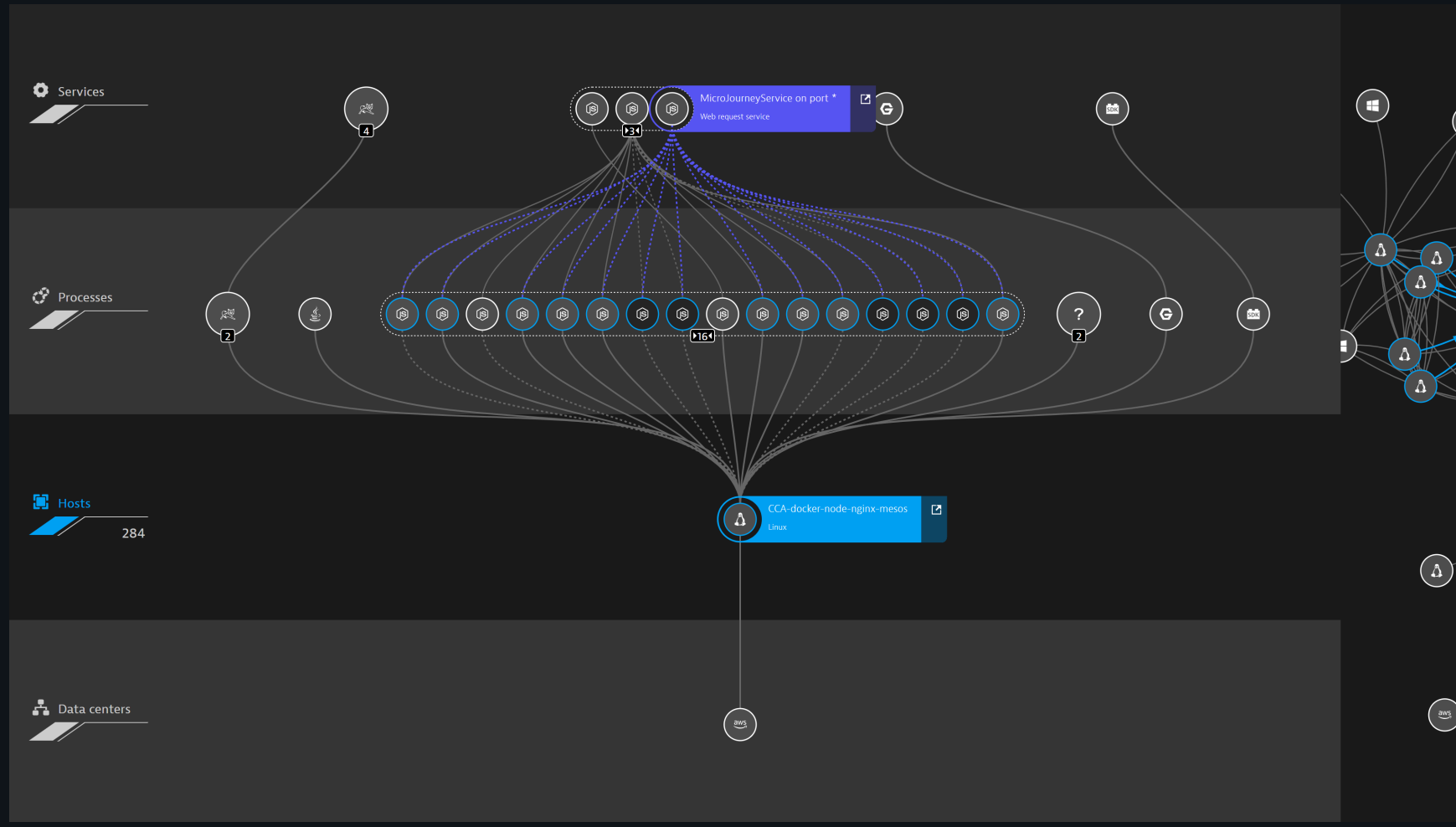

Golang code-level insights

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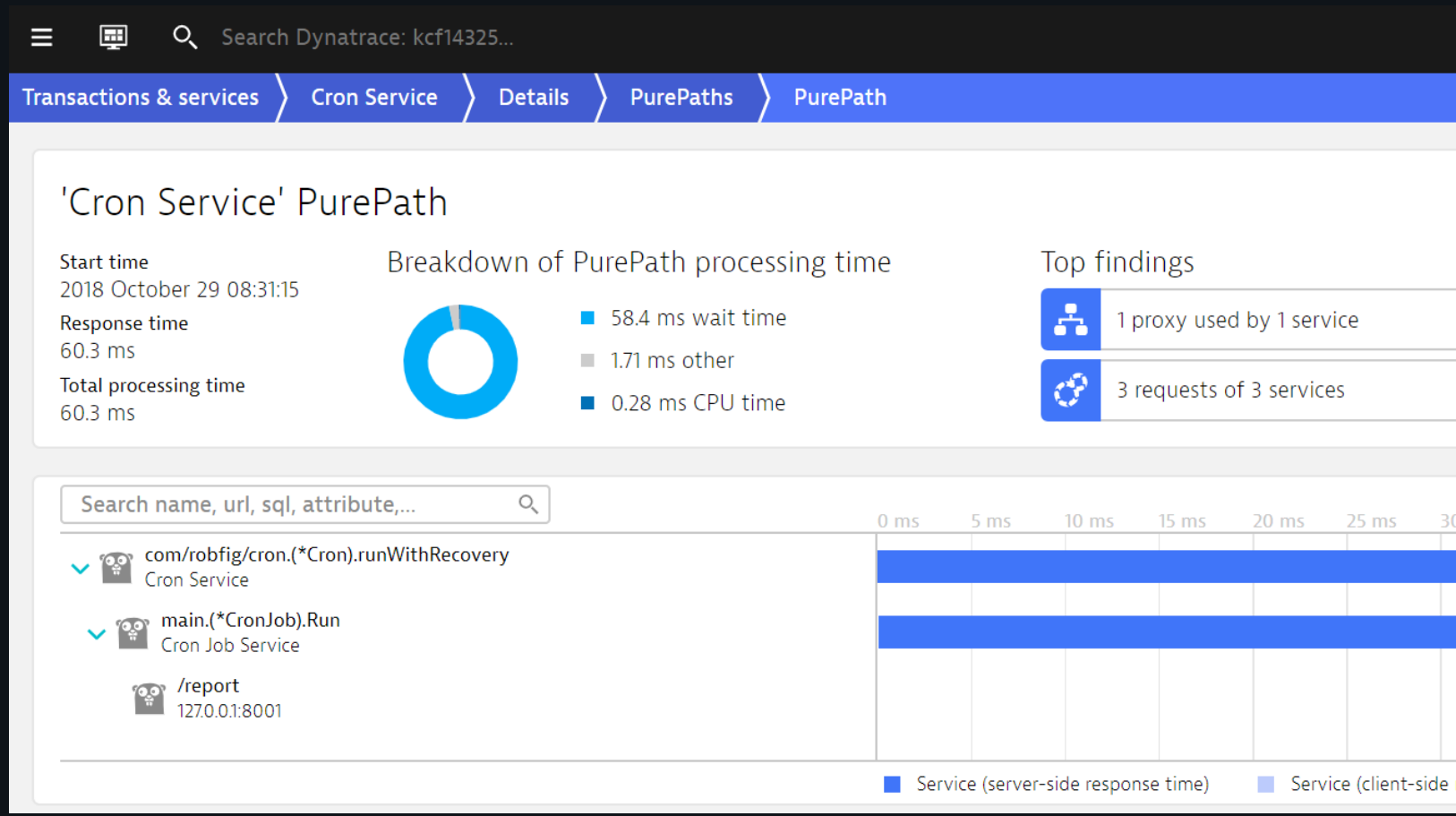

Automatic hotspot analysis

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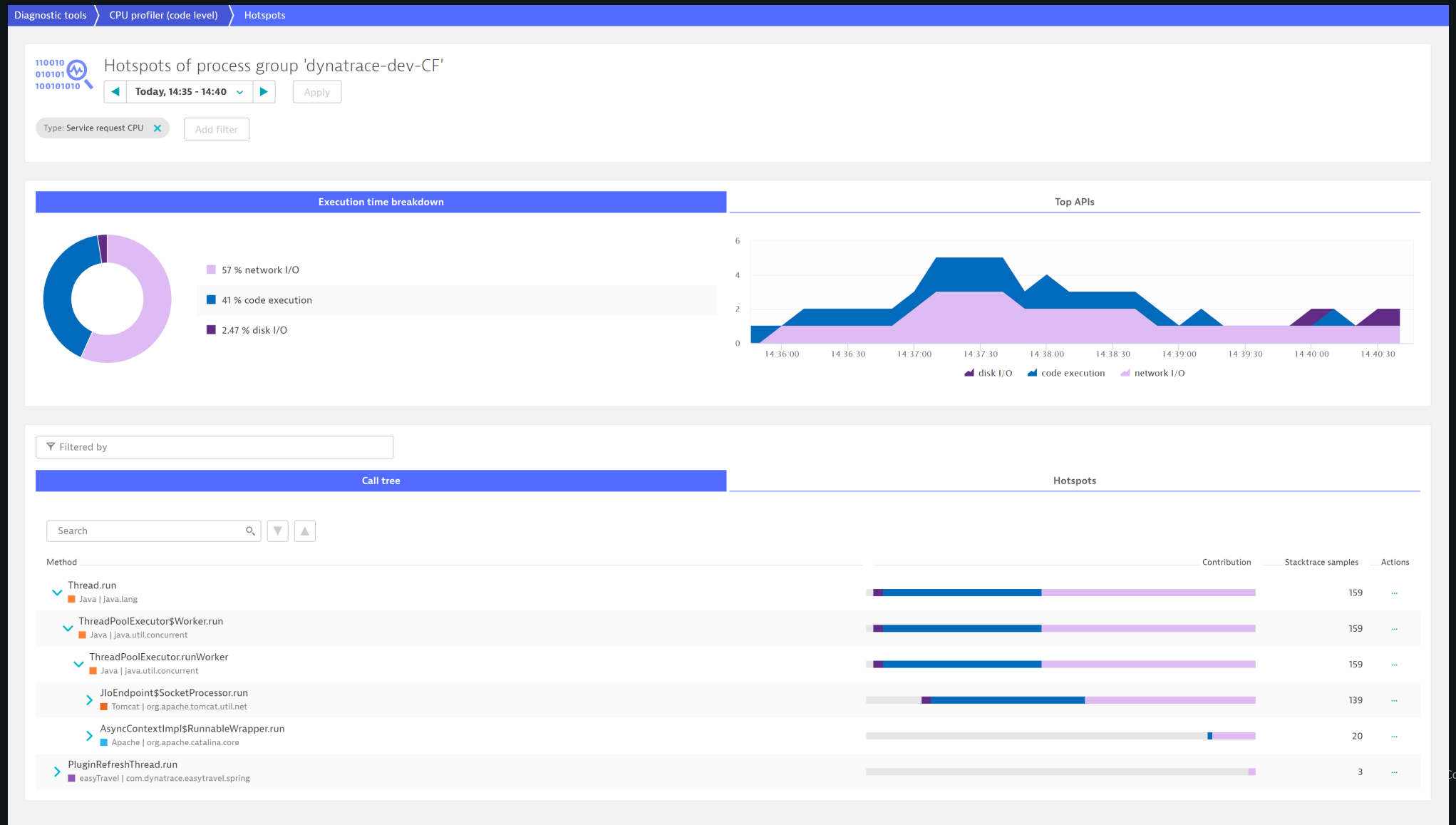
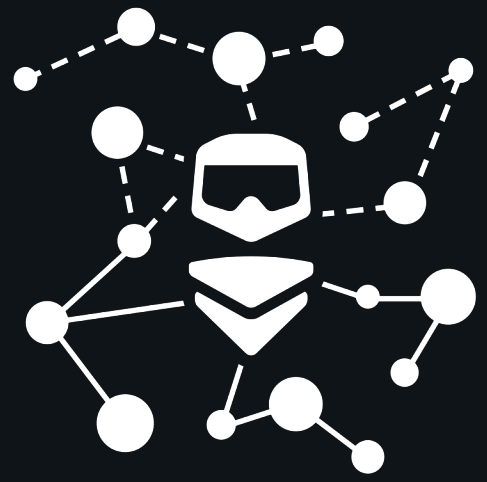
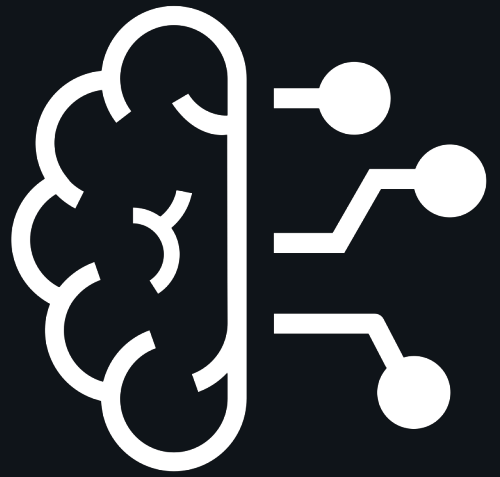




automatic

smart



open

4 years of continual AI advancements…

Announcing Today
Next-gen of Dynatrace Davis

3 applications: User action duration degradation

Problem 225 detected at 01:59 - 02:52 (was open for 53 minutes). This problem affects real users.

Affected applications 3

Affected services 16

Affected infrastructure 2

725,461,920 Dependencies analyzed

Business impact analysis

An analysis of all affected service calls and impacted real users during the first 10 minutes of the problem shows the following potential impact.

13.8k Impacted users (show first 100)

1.58M Affected service calls

Show more

3 impacted applications

475 User actions per minute impacted

www.easytravel.com

Application

User action duration degradation

The current response time (43.4 s) exceeds the auto-detected baseline (1.69 s) by 2,470 %

Affected user actions	User action		
33.4 /min	2 User actions		
Browser	Geolocation	OS	
All	All	All	

www.easytravelb2b.com

Application

User action duration degradation

The current response time (58.8 s) exceeds the auto-detected baseline (389 ms) by 15,028 %

Affected user actions	User action		
223 /min	7 User actions		
Browser	Geolocation	OS	
All	All	All	

www.angular.easytravel.com

Application

User action duration degradation

The current response time (1.01 min) exceeds the auto-detected baseline (518 ms) by 11,572 %

Root cause

Based on our dependency analysis all incidents have the same root cause

eT-demo-2-BusinessBackend
Process Group

4 Deployment changes — Today, 01:56 - 01:57
Deployment change for process eT-demo-2-BusinessBackend (eT-demo-2-BusinessBackend-2-WIN1)

7 Response time degradations — Today, 01:59 - 02:33
Service BookingService slow down

6 Deployments — Today, 01:56 - 02:06
Deployment change

2 CPU saturations — Today, 02:01 - 02:32
CPU saturation

Metric anomalies detected

Review the metrics which show abnormal or outlying behavior.

Process CPU Usage
+ 41 %
Now
Before

Retransmitted Packets Received per Second
+ 0.6 /s
Now
Before

Process Total CPU Time
+ 8.23 s
Now
Before

Process Total CPU Time during GC Suspensions
+ 54.3 ms
Now
Before

Analyze findings

Show 2 more

Change detection in dynamic environments

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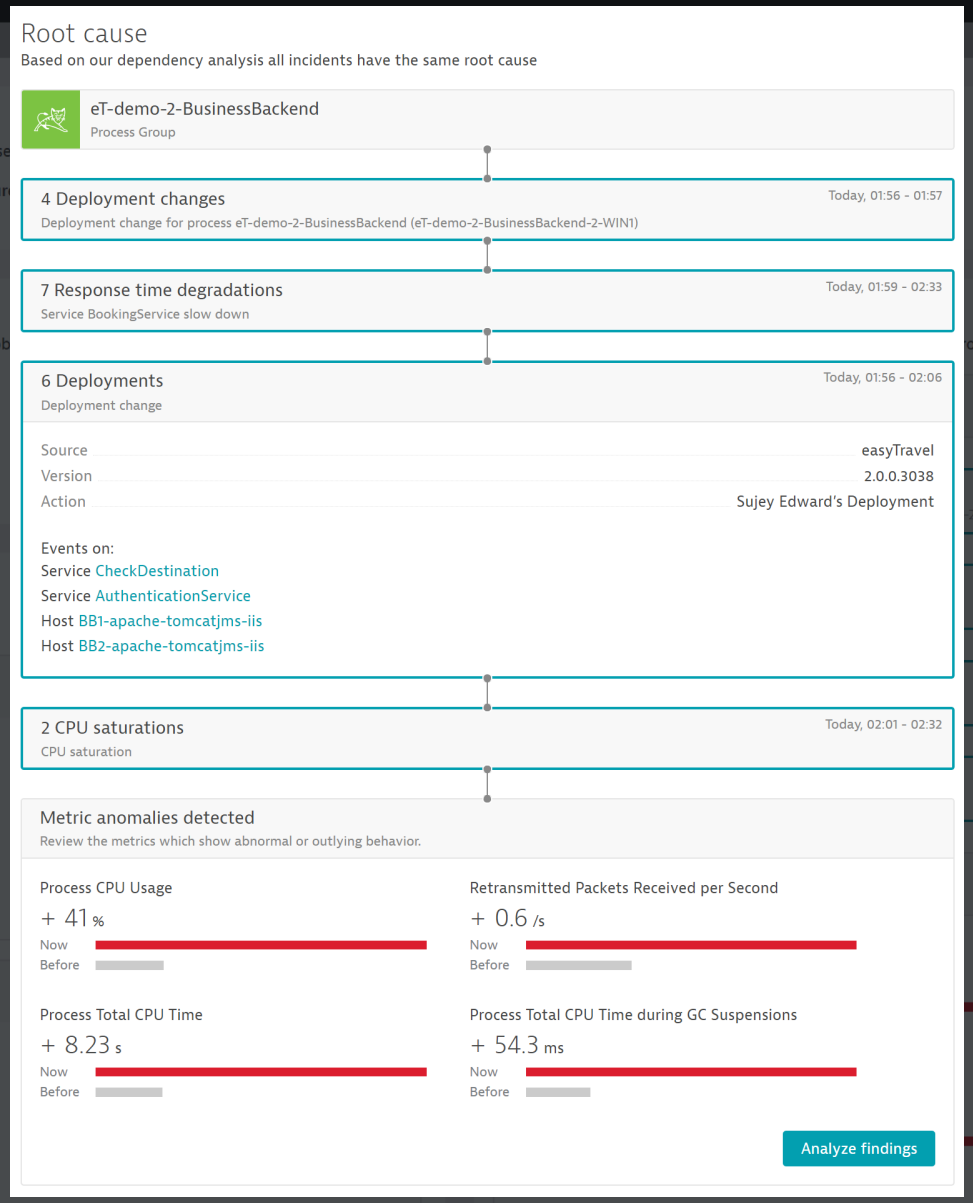

Anomaly detection without thresholds or baselines

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Precise availability detection

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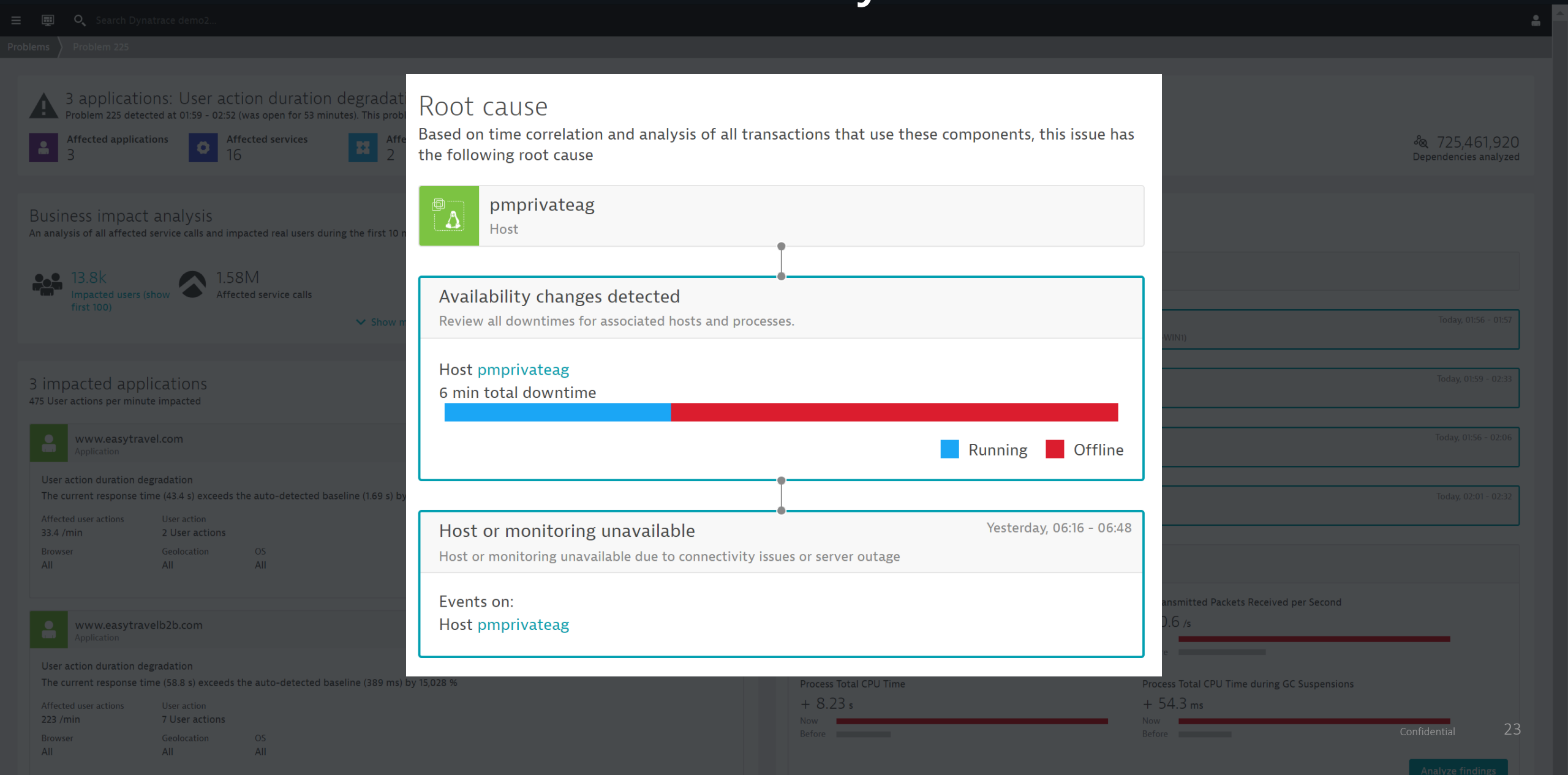
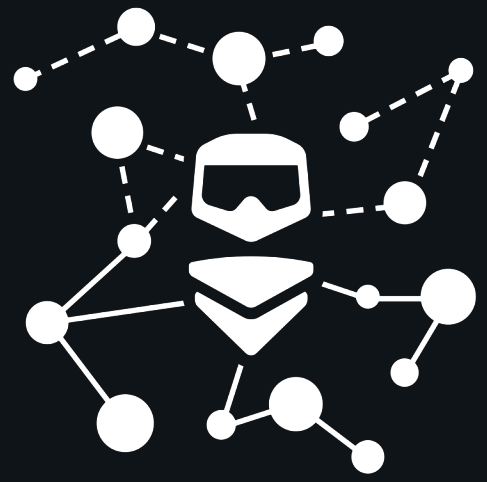


Root-cause on all metrics and events
None of the noise



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open

open platform for AIOps

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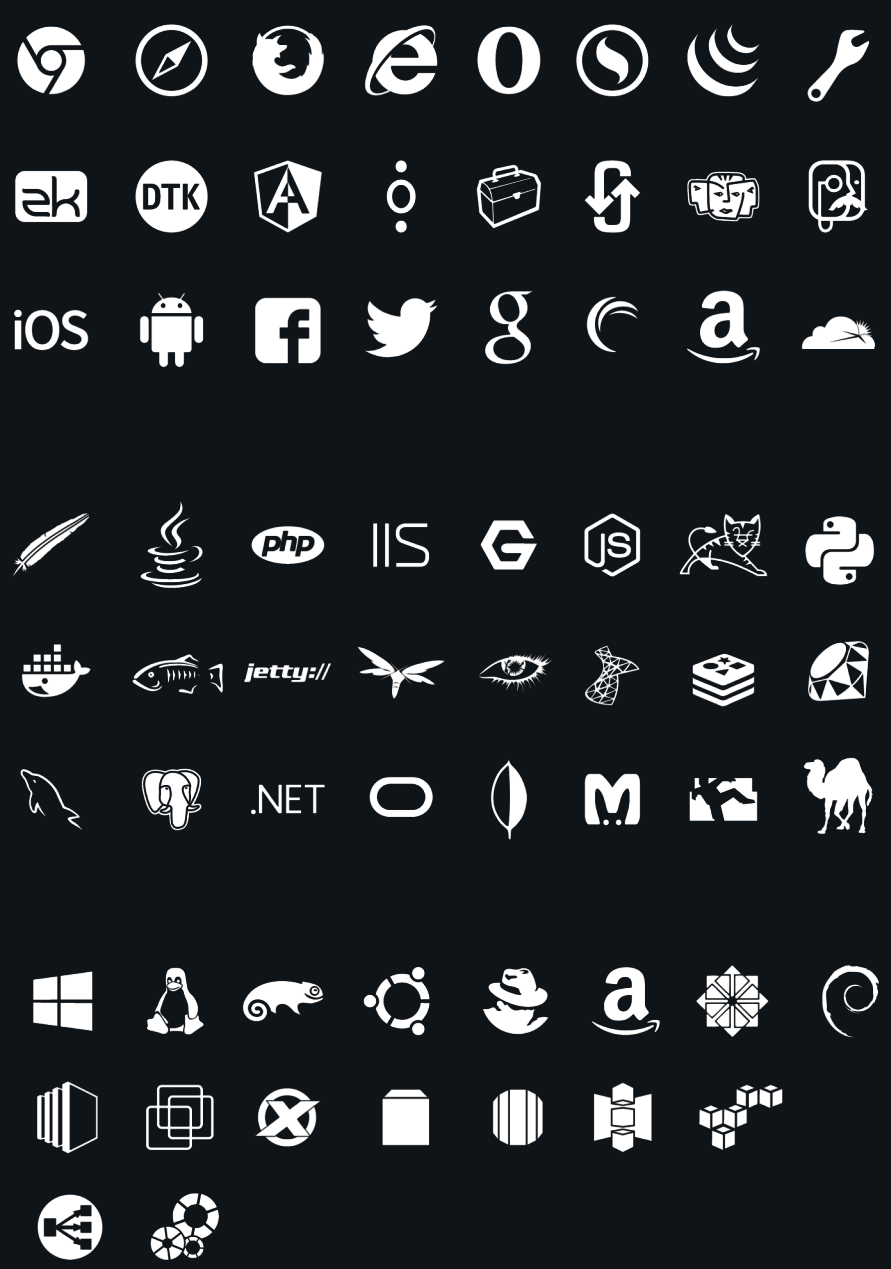
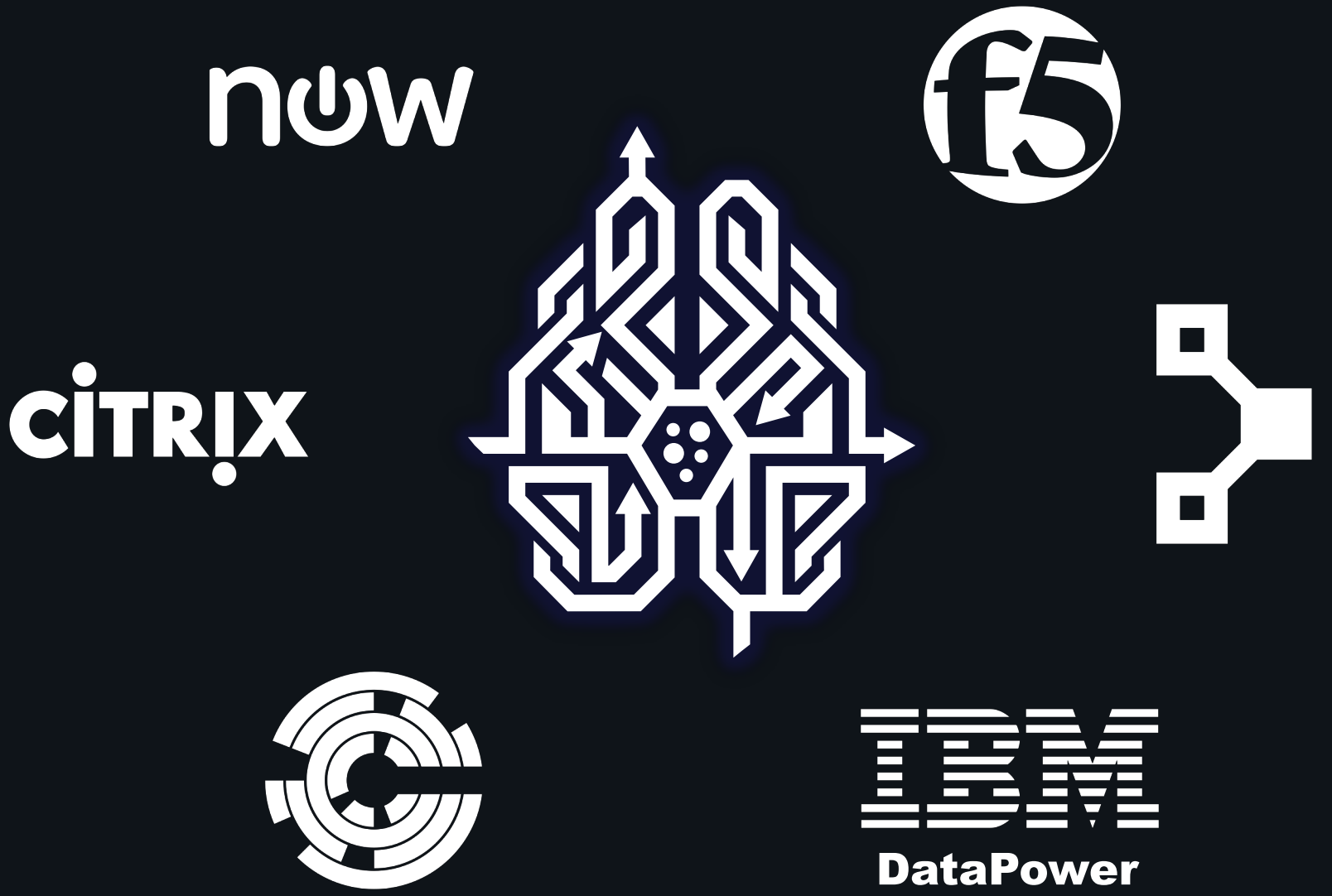
Expanding
(the already broadest)
visibility



Open to external events and data



First-class citizen of Smartscape and Davis

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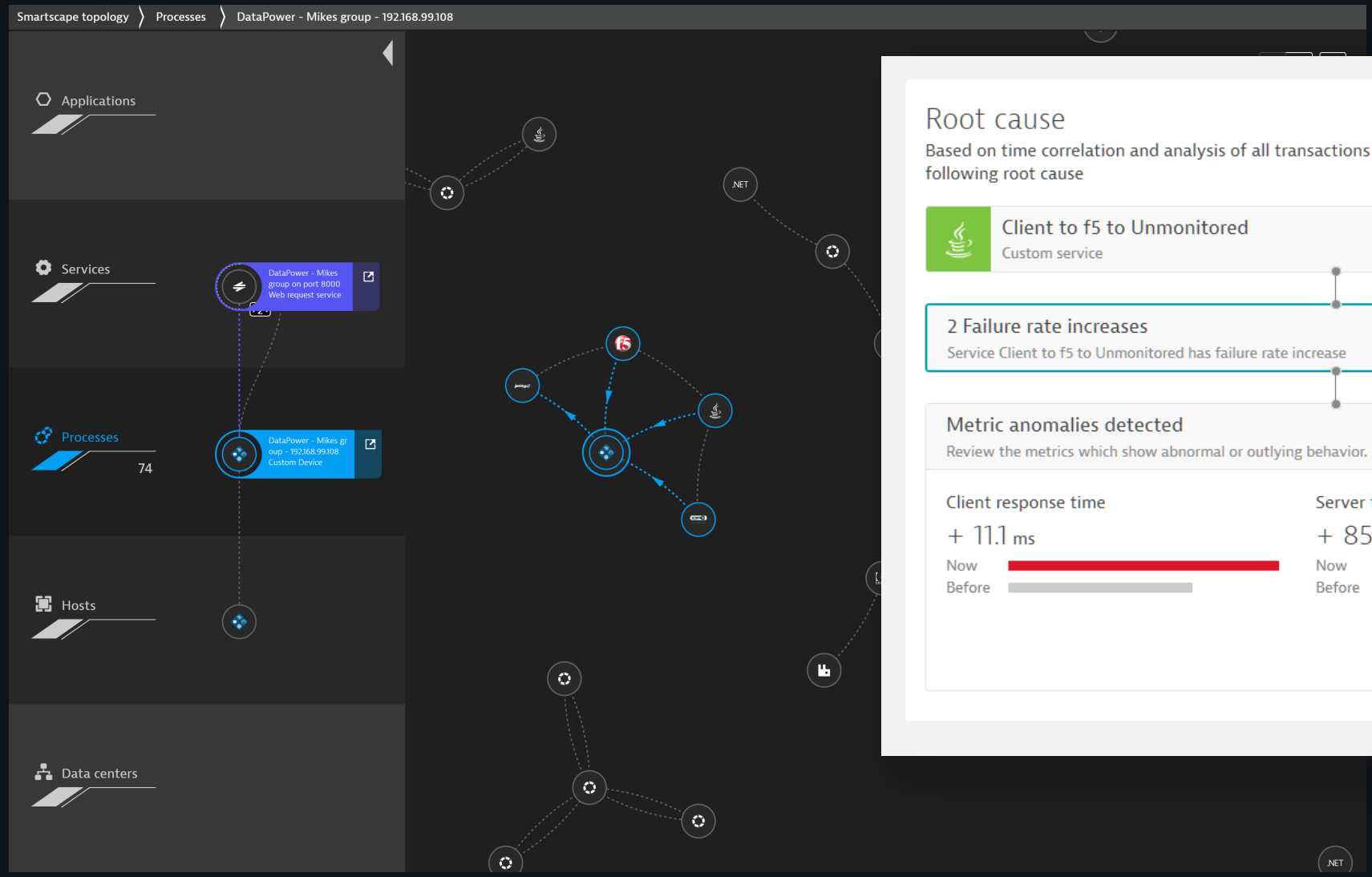

Root cause

Based on time correlation and analysis of all transactions that use these components, this issue has the following root cause

Client to f5 to Unmonitored
Custom service

2 Failure rate increases — Nov 02 2018, 09:33 - 10:04
Service Client to f5 to Unmonitored has failure rate increase

Metric anomalies detected
Review the metrics which show abnormal or outlying behavior.

Client response time	Server failure rate
+ 11.1 ms	+ 85 %
Now	Now
Before	Before

Analyze findings

Deterministic answers for automation and self-healing

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Continuous Delivery

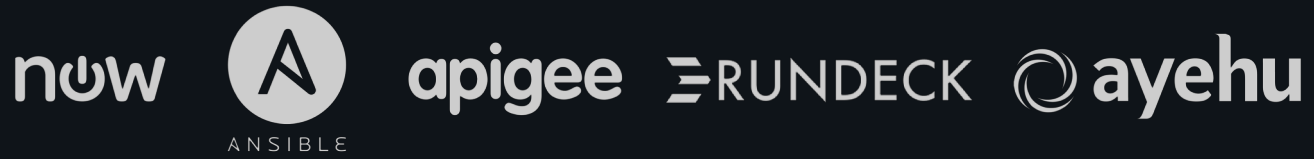
Application Platforms

Cloud Platforms

Version Control

Testing Platforms

Runbook Automation



Collaboration

SAP

SAP CX Commerce Cloud

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2,600+ Managed Tenants

95,000+ Services

18,000+ Hosts

120,000+ Processes

600+ Kubernetes Clusters

0 human config

Total visibility

"I let Dynatrace automation take care of adding 5,000 hosts during my BBQ."

What's next?

Announcing Today
Free for Life Developer Program

developer.dynatrace.com

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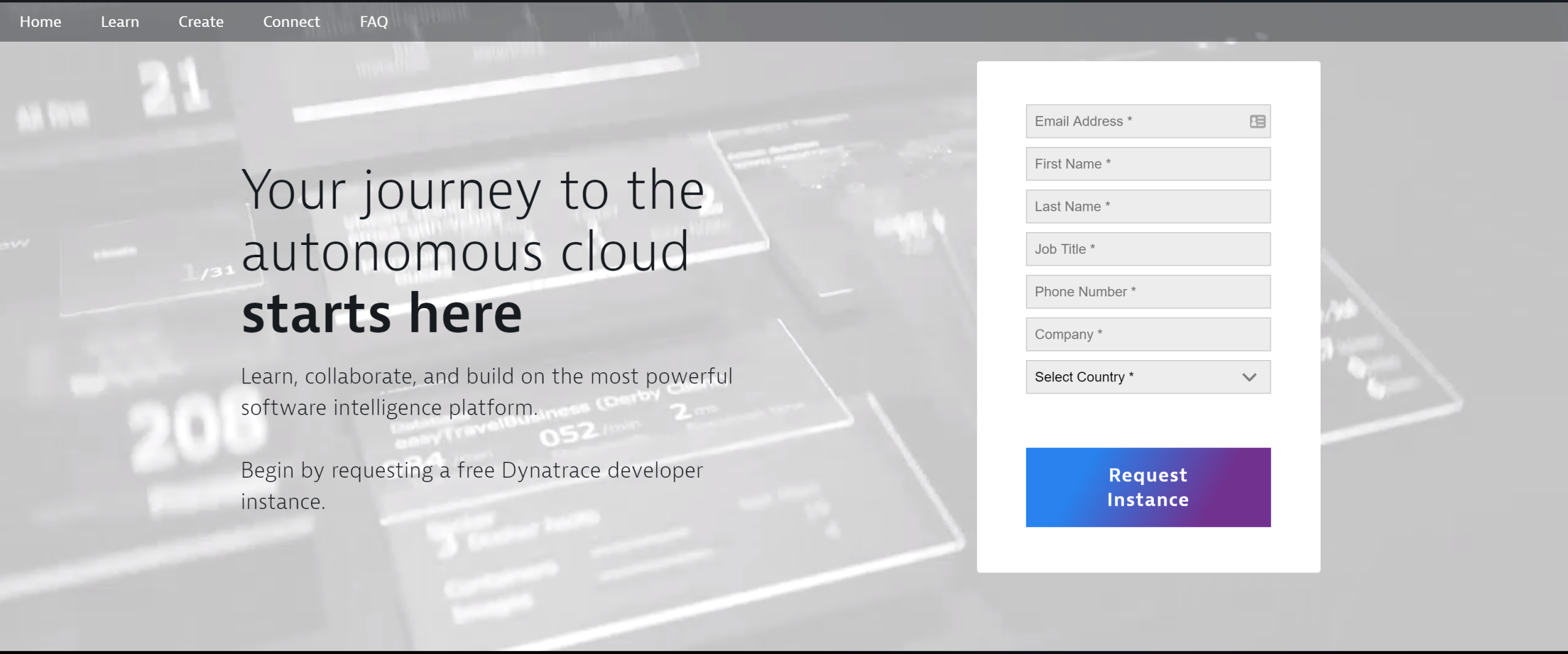
dynatrace

Home Learn Create Connect FAQ



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Learn, collaborate, and build on the most powerful software intelligence platform.

Begin by requesting a free Dynatrace developer instance.

Email Address *

First Name *

Last Name *

Job Title *

Phone Number *

Company *

Select Country *

Request Instance

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Access all the online training, tutorials and code samples you need to extend Dynatrace.

Learn more

Create

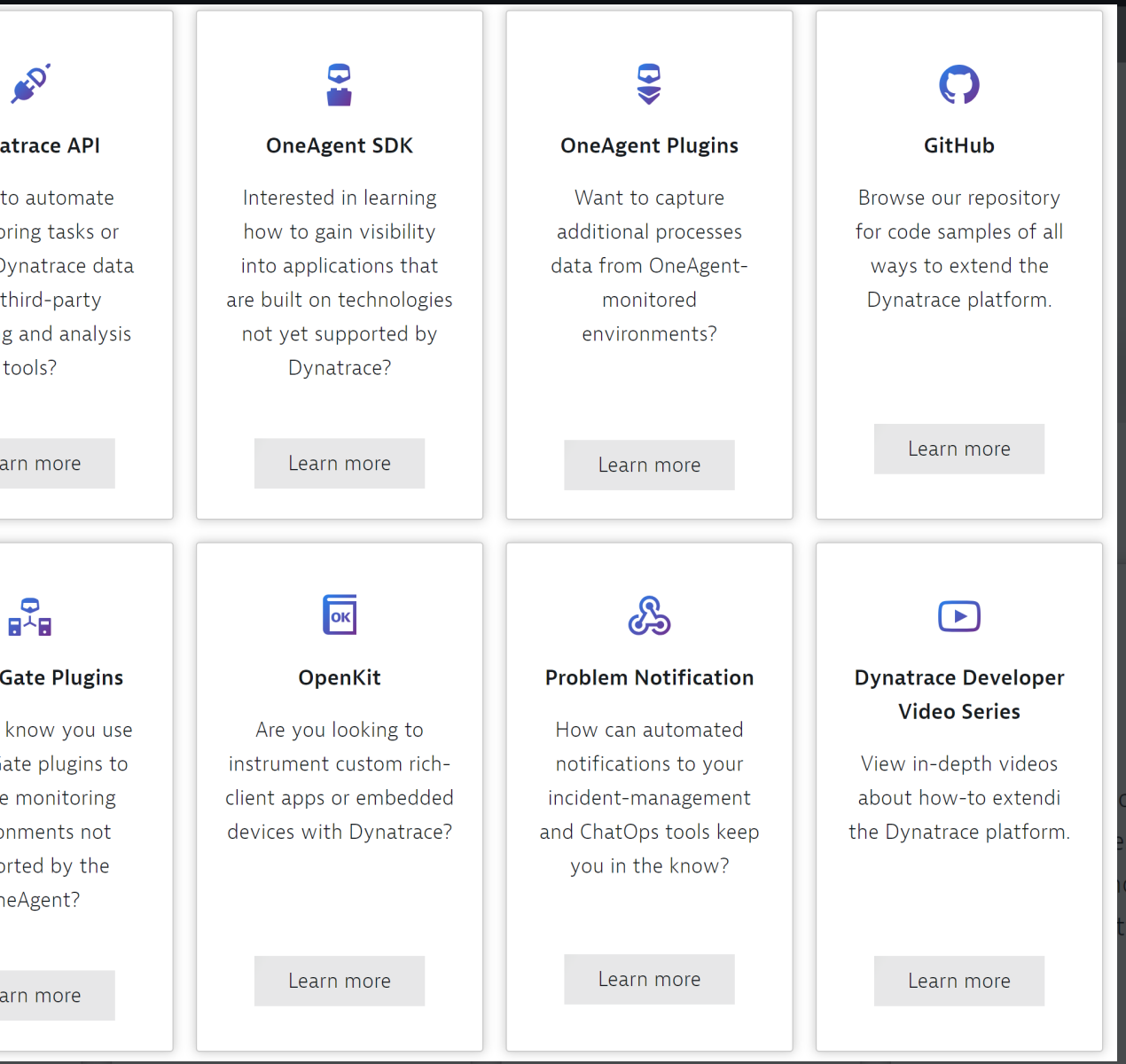
Use your own Dynatrace developer instance to design and implement innovative solutions.

Learn more

Connect

Engage and collaborate with a global community of Dynatrace developers.

Learn more



Dynatrace API

Need to automate monitoring tasks or export Dynatrace data into third-party reporting and analysis tools?

Learn more

OneAgent SDK

Interested in learning how to gain visibility into applications that are built on technologies not yet supported by Dynatrace?

Learn more

OneAgent Plugins

Want to capture additional processes data from OneAgent-monitored environments?

Learn more

GitHub

Browse our repository for code samples of all ways to extend the Dynatrace platform.

Learn more

ActiveGate Plugins

Did you know you use ActiveGate plugins to remote monitoring environments not supported by the OneAgent?

Learn more

OpenKit

Are you looking to instrument custom rich-client apps or embedded devices with Dynatrace?

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Problem Notification

How can automated notifications to your incident-management and ChatOps tools keep you in the know?

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Dynatrace Developer Video Series

View in-depth videos about how-to extendi the Dynatrace platform.

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Resources and best practices at your fingertips

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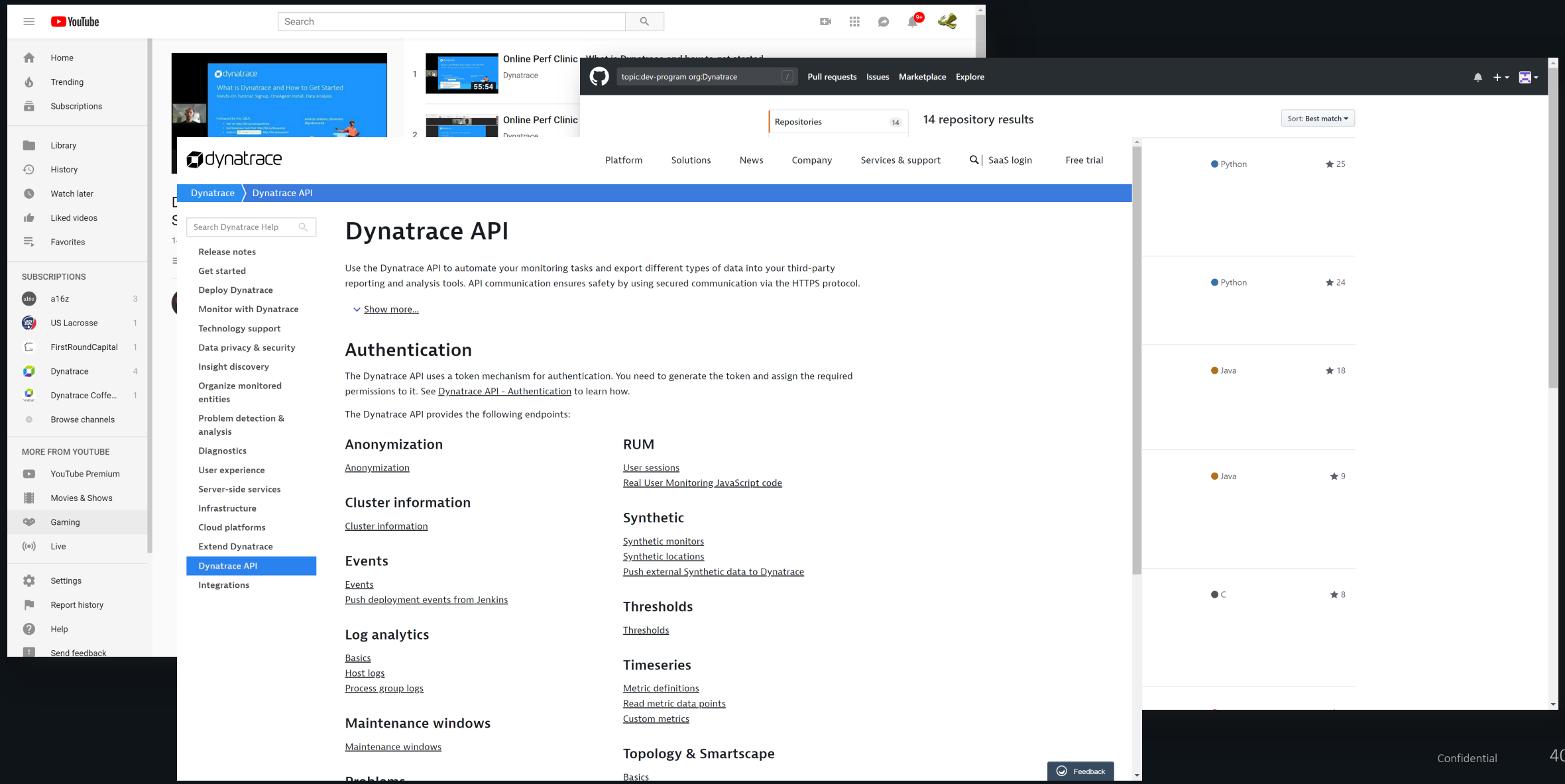

Your onramp to the autonomous cloud

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learn

create

connect

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Request
Instance

Thank you
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