

# Smartscape

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Dynatrace Training Module

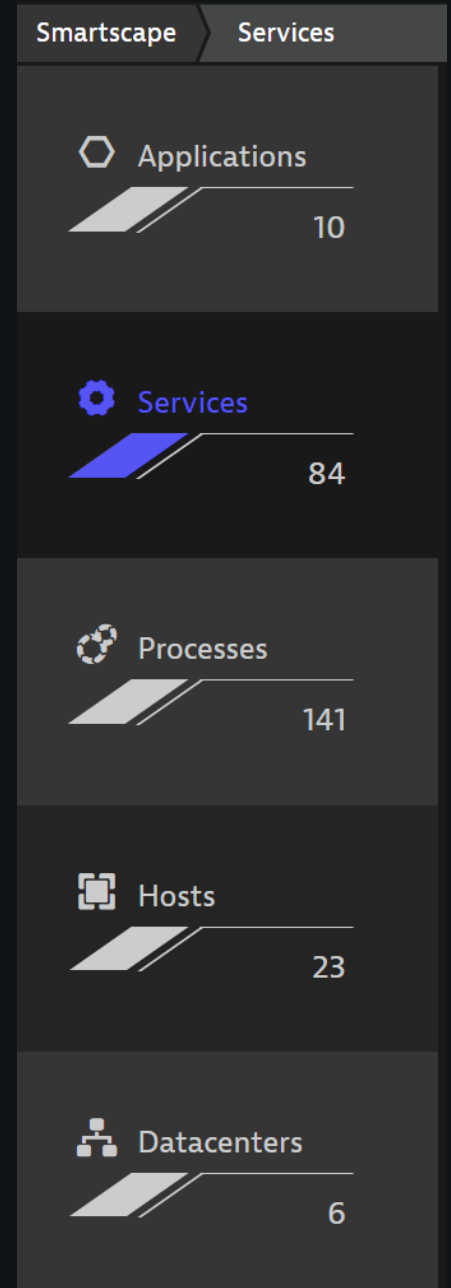


# Smartscape Topology

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# Speaking the same language

- The Smartscape visualizes your entire application environment
- Auto-discovery delivers a quick and efficient overview of all the topological dependencies in your infrastructure, processes, and services
  - On the vertical axis
    - Where full-stack dependencies across all tiers are displayed
  - On the horizontal axis
    - Where all ingoing and outgoing call relationships within each tier are visualized
- It also allows for quick access to detailed drill-downs



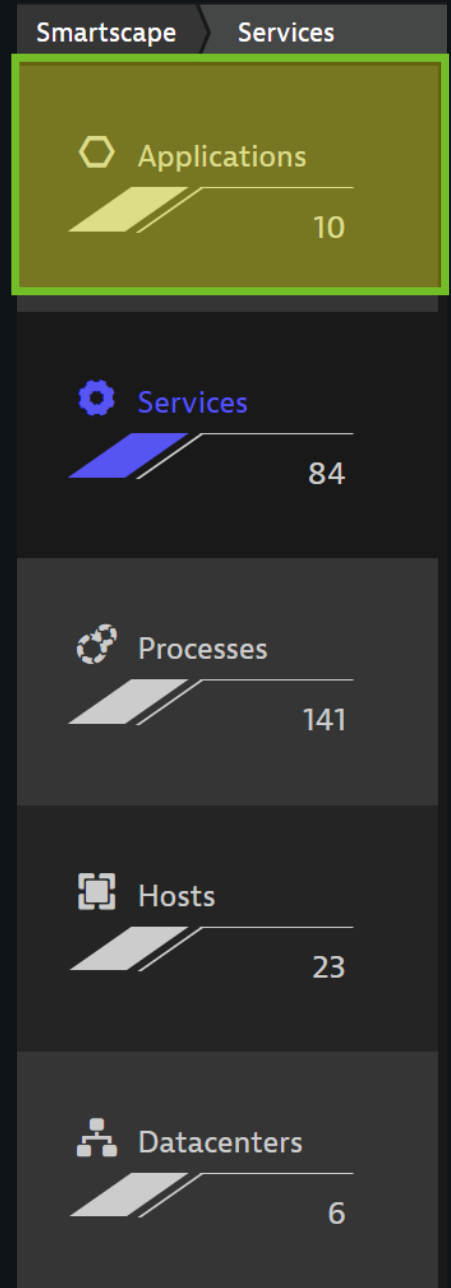
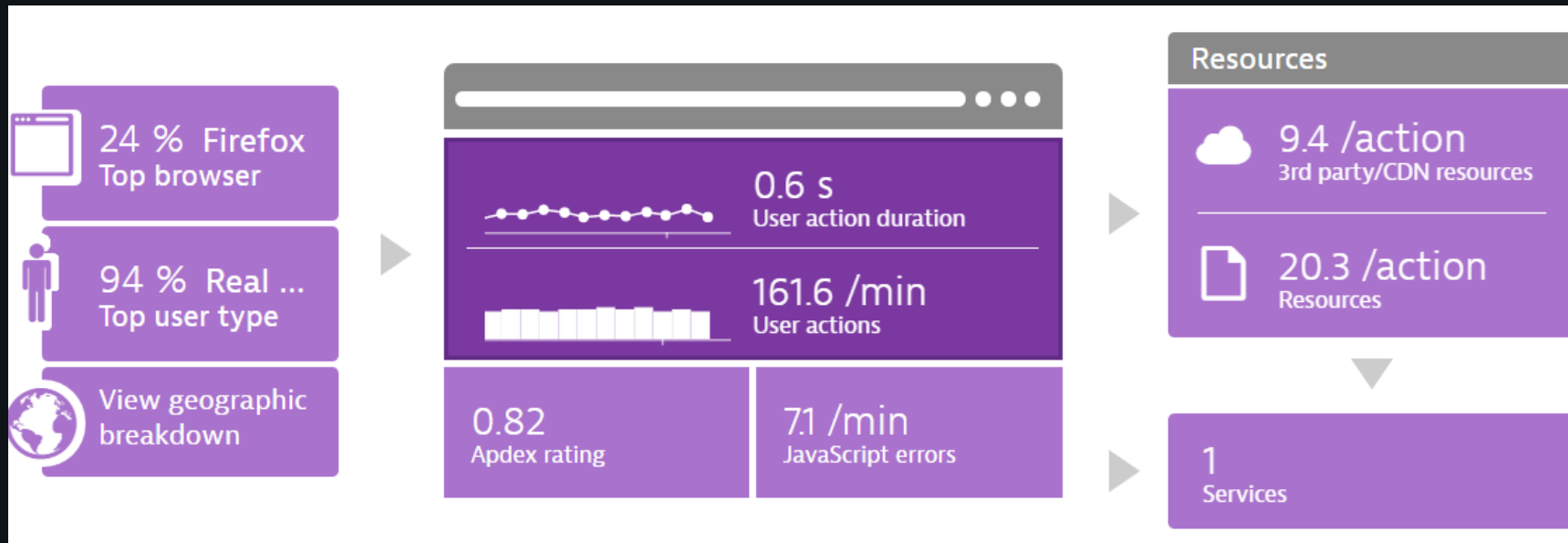
# Speaking the same language

application 

[ap-li-**key**-shuh n]

1. User experience as measured at the endpoint, such as a browser or mobile device
2. How software is presented to the end user

Related terms: Browser, User Action, Session, JavaScript, Waterfall



# Speaking the same language

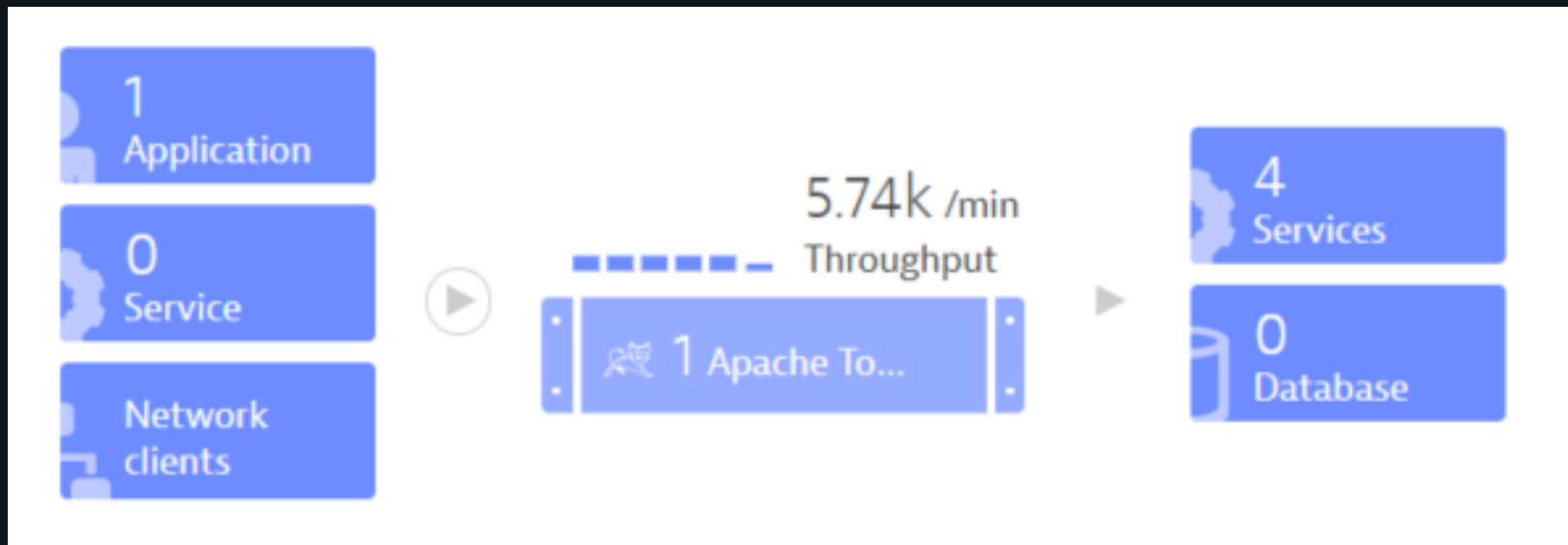
service



[sur-vis]

1. A set of code that accepts requests and returns results
2. The result of instrumenting a process
3. The “code layer” which requires “deep dive”

Related terms: Instrument, Web Request, Breakdown, Service Flow, Service Backtrace, Hotspot, PurePath



Smartscape	Services
Applications	10
Services	84
Processes	141
Hosts	23
Datacenters	6

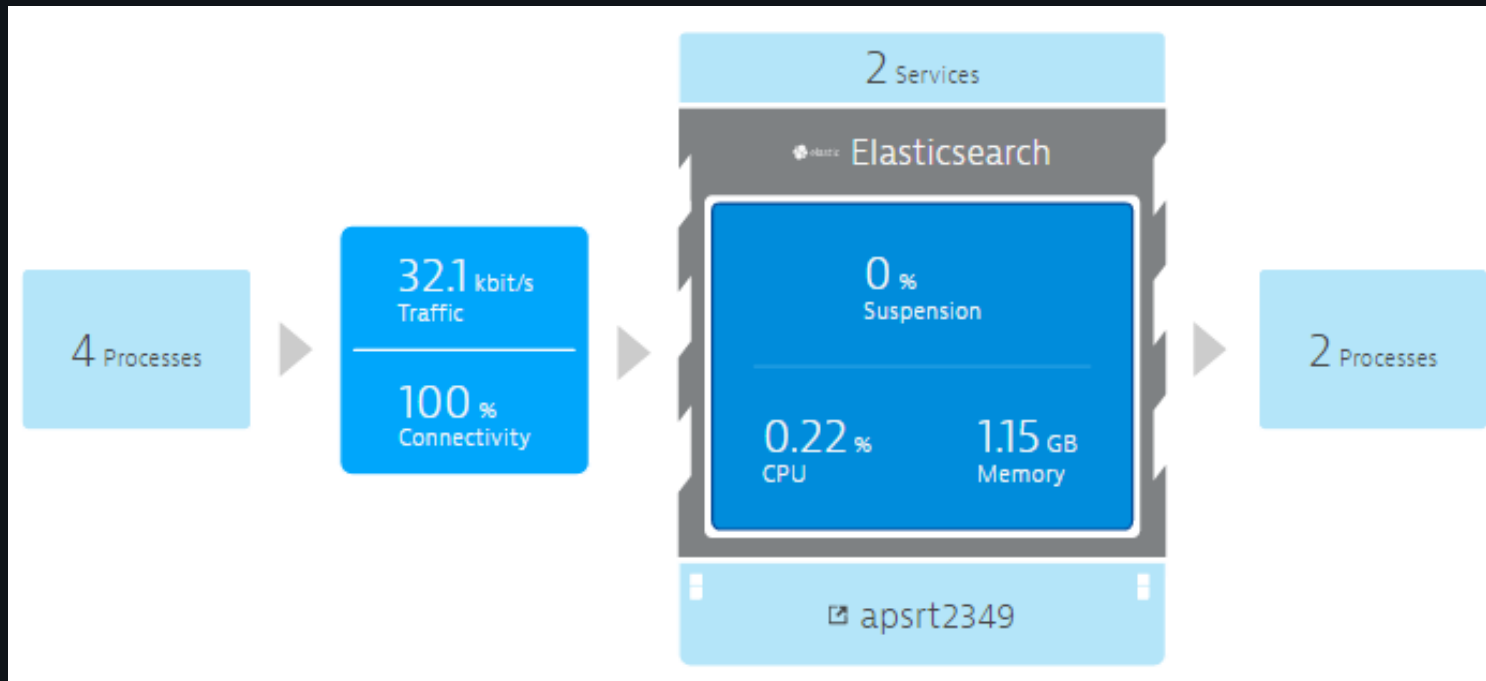
# Speaking the same language

process 


[**pros**-es; especially British **proh**-ses]

1. A currently executing computer program
2. A means for code to request computing resources

Related terms: Requests, Utilization, PID, Memory





Smartscape Services

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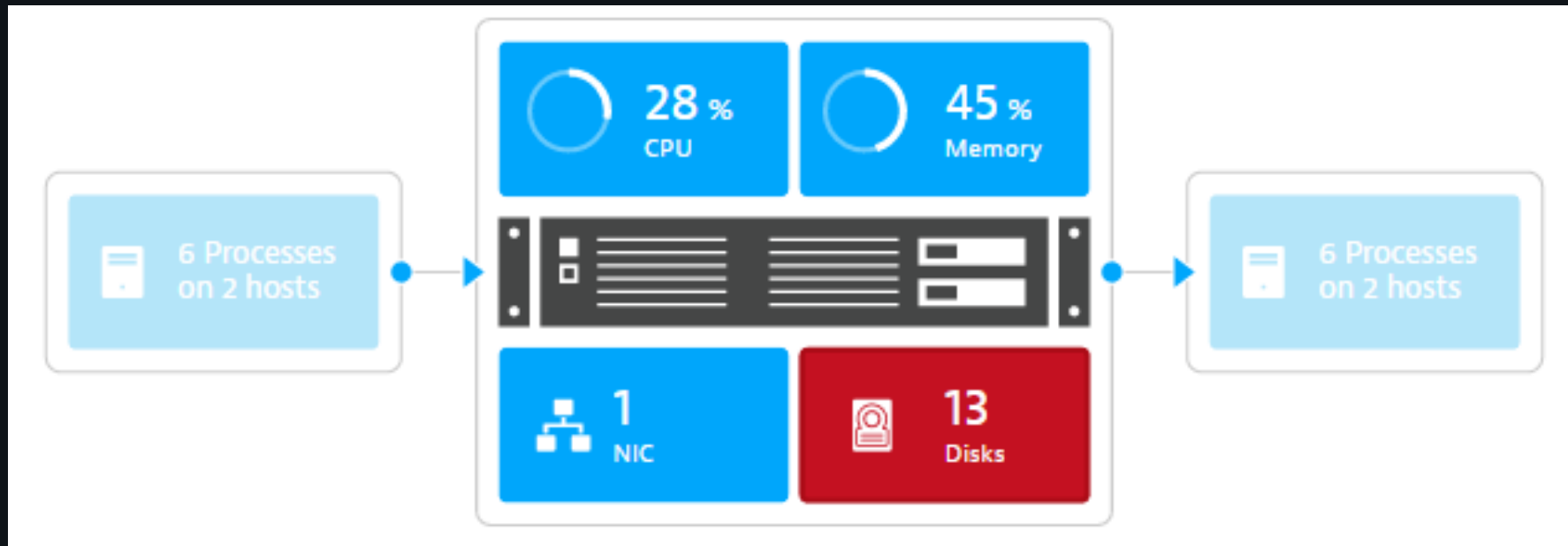
host



[hohst]

1. A physical or virtualized operating system
2. The source of compute, memory, and storage resources

Related terms: CPU, Interface, Virtual, AWS



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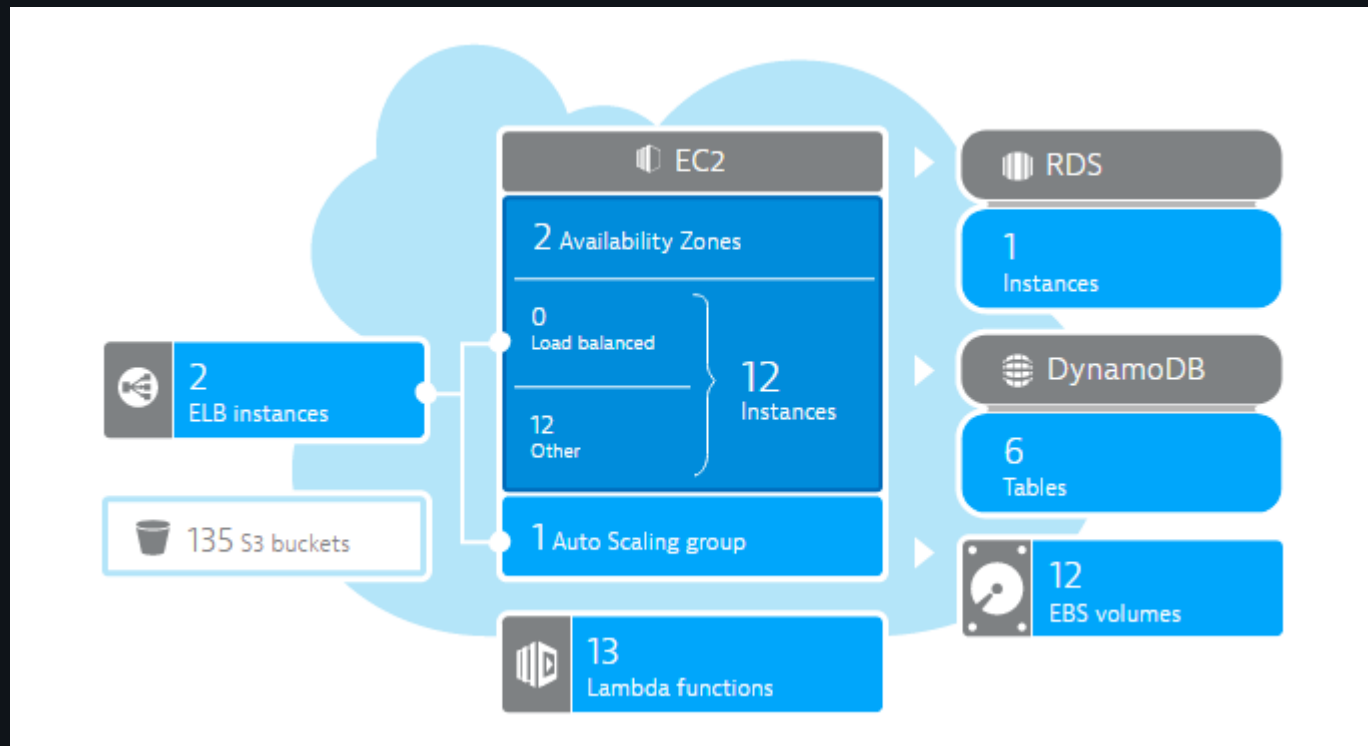
datacenter 

or **data center**


[*dey-tuh-sen-ter*]

1. a facility equipped with or connected to one or more computers, used for processing or transmitting data


Related terms: vCenter, zone, Virtual, AWS, Geo Region





Smartscape Services

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 Services  
84

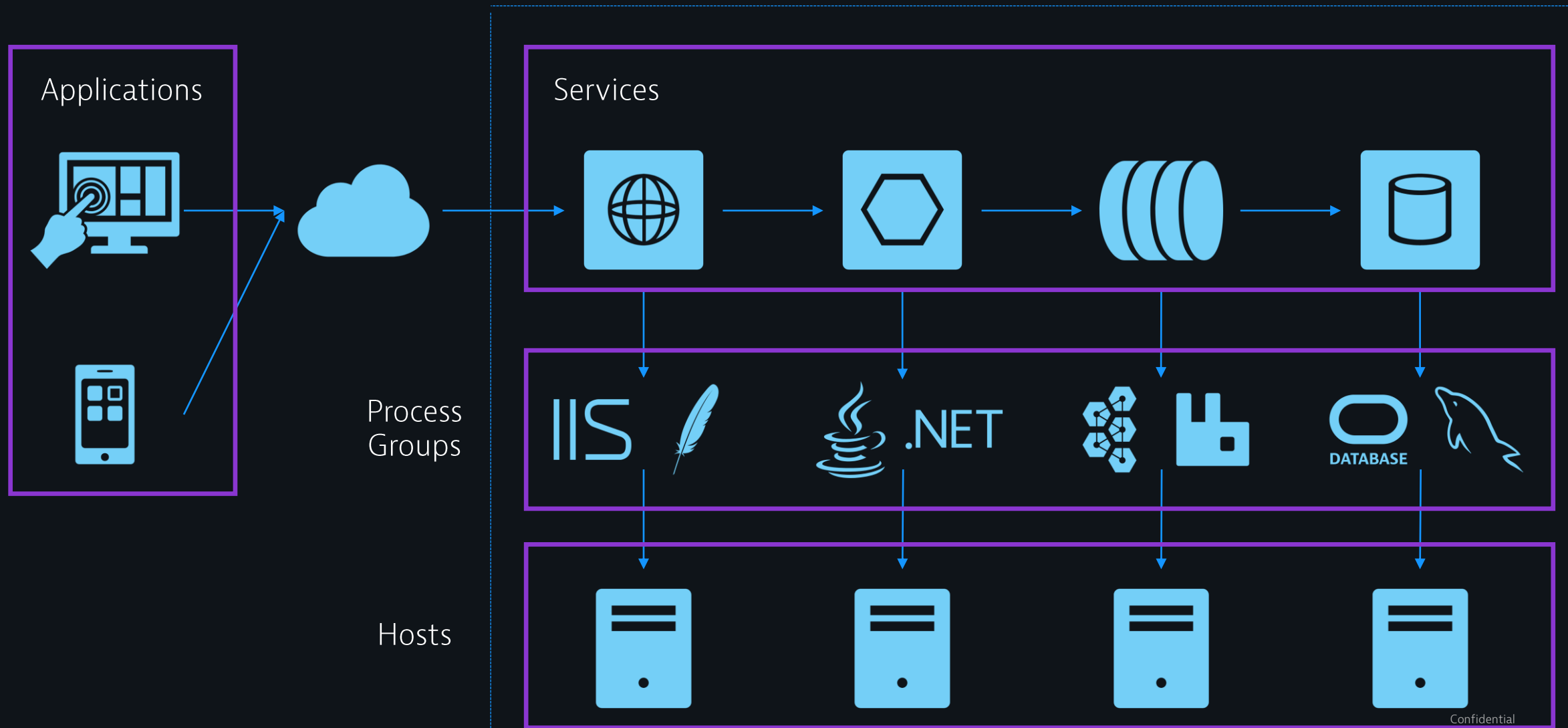
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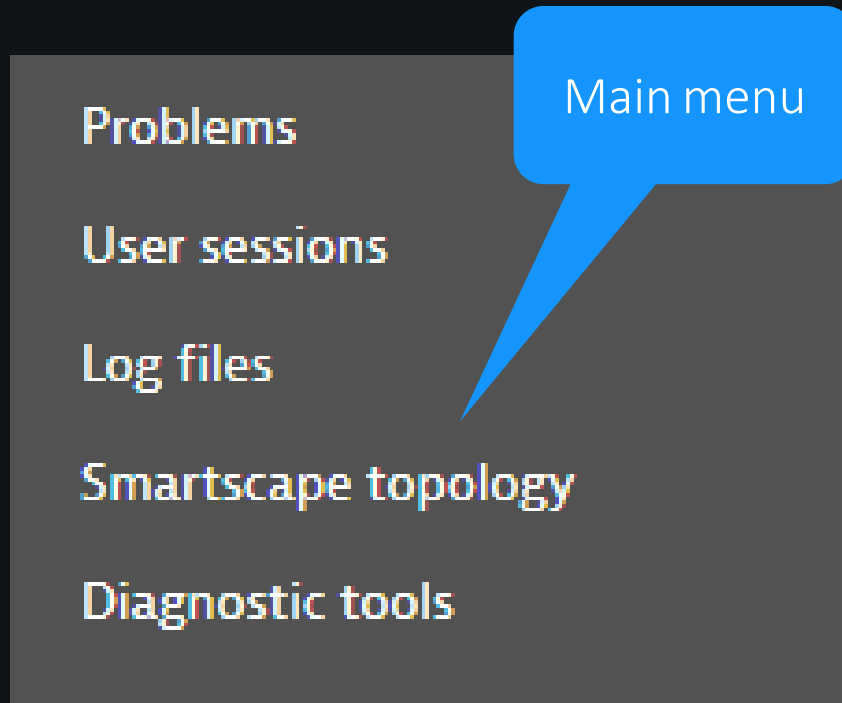
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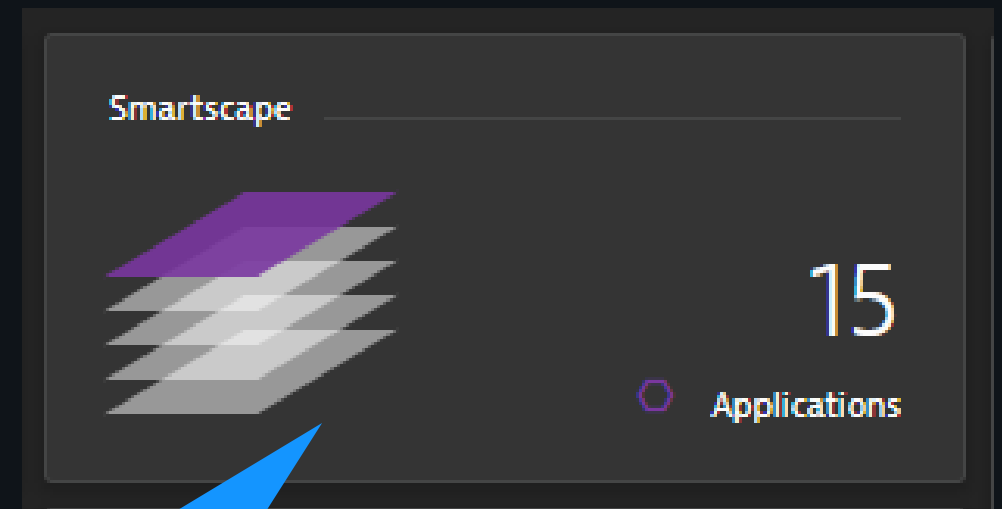
## Visualizing the Smartscape topology



## How do I analyze the Smartscape?



OR



As a dashboard tile

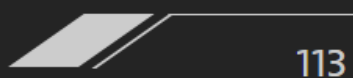
Smartscape

Processes

🔷 Applications



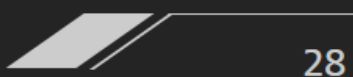
⚙️ Services



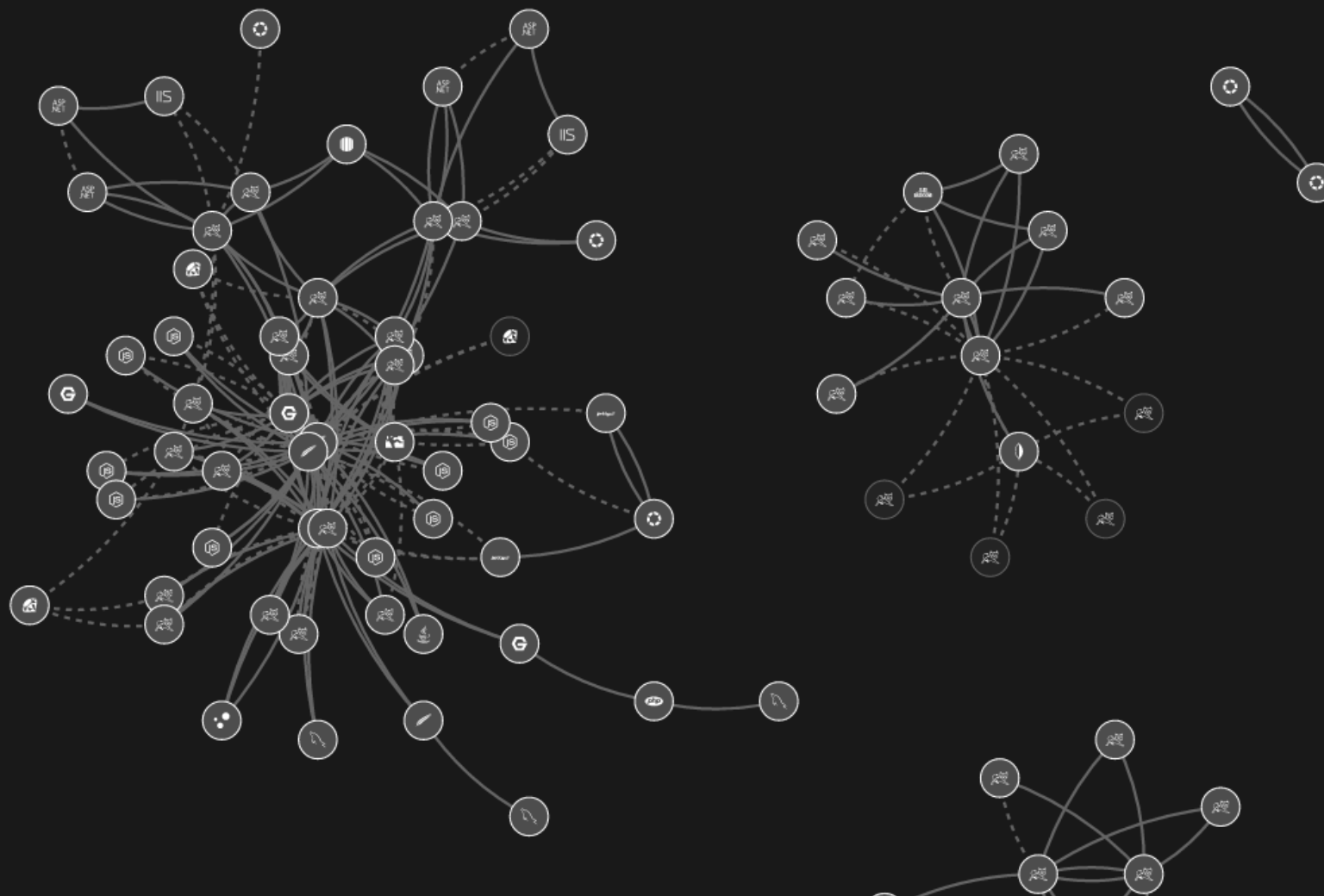
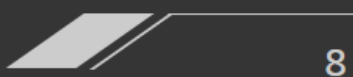
🔗 Processes



🖨️ Hosts



🏢 Datacenters



# Dynatrace Topology Model

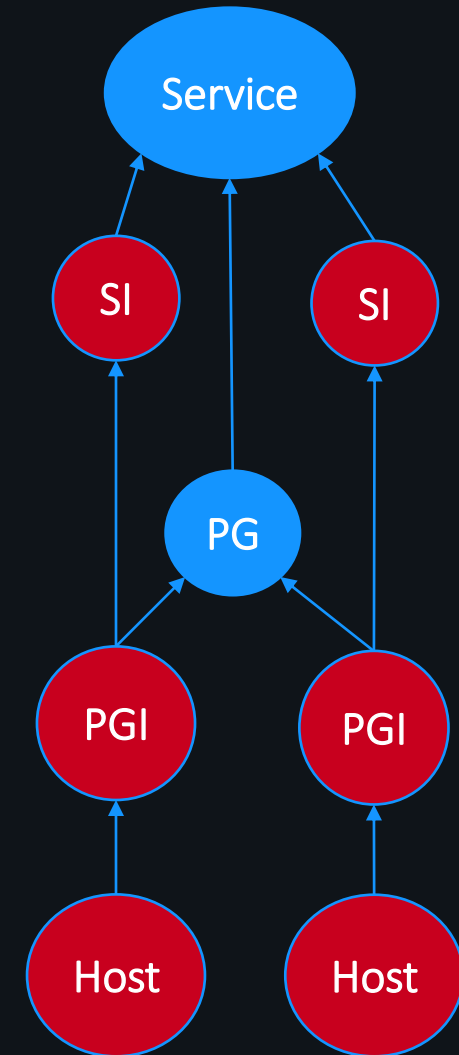
- Dynatrace is based on fully automated discovery of monitored entities and relations
- Represented in Smartscape – real time
- Smartscape represents the current view of the system's horizontal and vertical relations
- Many different types of entities and relations, but the most important ones are
  - Host
  - PGI (Process Group Instance), in principle a continuous representation of process on a host
  - PG (Process Group), a logical group PGIs that belong to the same family, e.g. 5 Tomcats forming a PG
  - Service Instance (SI), one service discovered and running on a PGI
  - Service, logical group of Service Instances that serve one Service as a cluster on distributed PGIs
  - Application (not shown in diagram)



= tangible

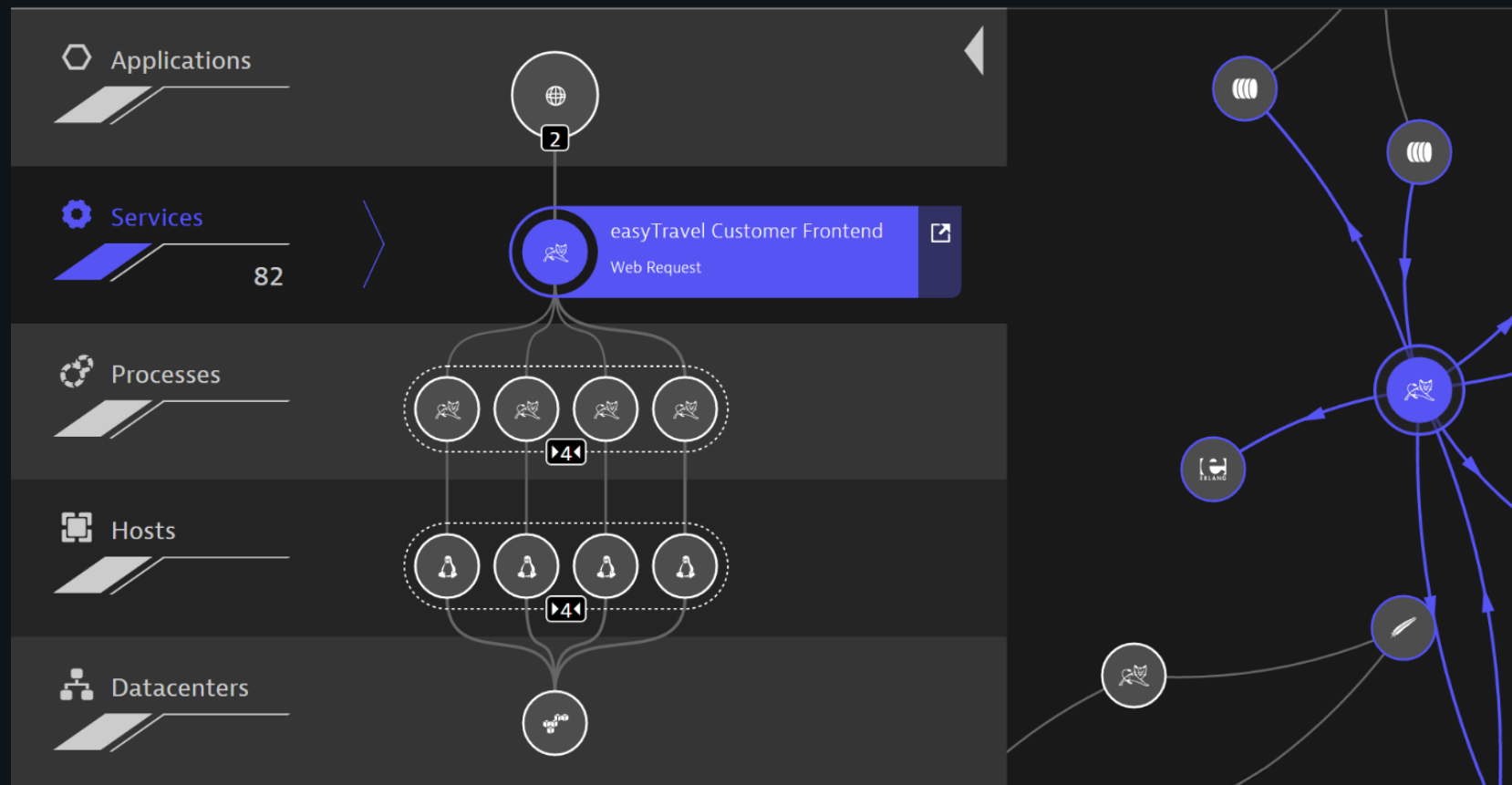


= logical



## Smartscape – Dependency modeling in real-time

- Automatically discovers your entire application stack; maps dependencies of found entities
- Presents the findings in the form of an interactive map



# Smartscape

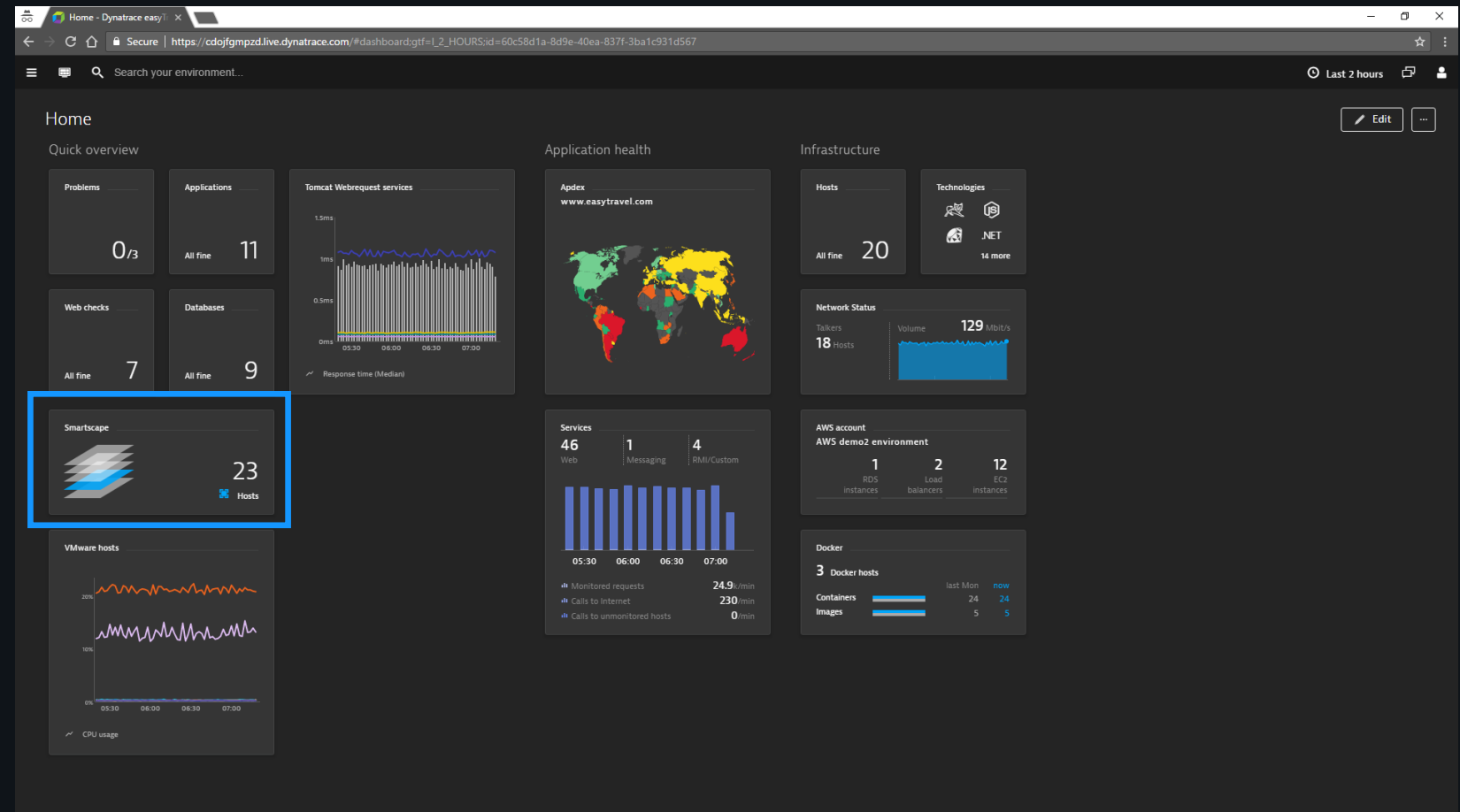
Accessing the Smartscape

Drilling into the Smartscape

Searching the Smartscape

Isolating Problems

## Accessing the Smartscape



# Smartscape

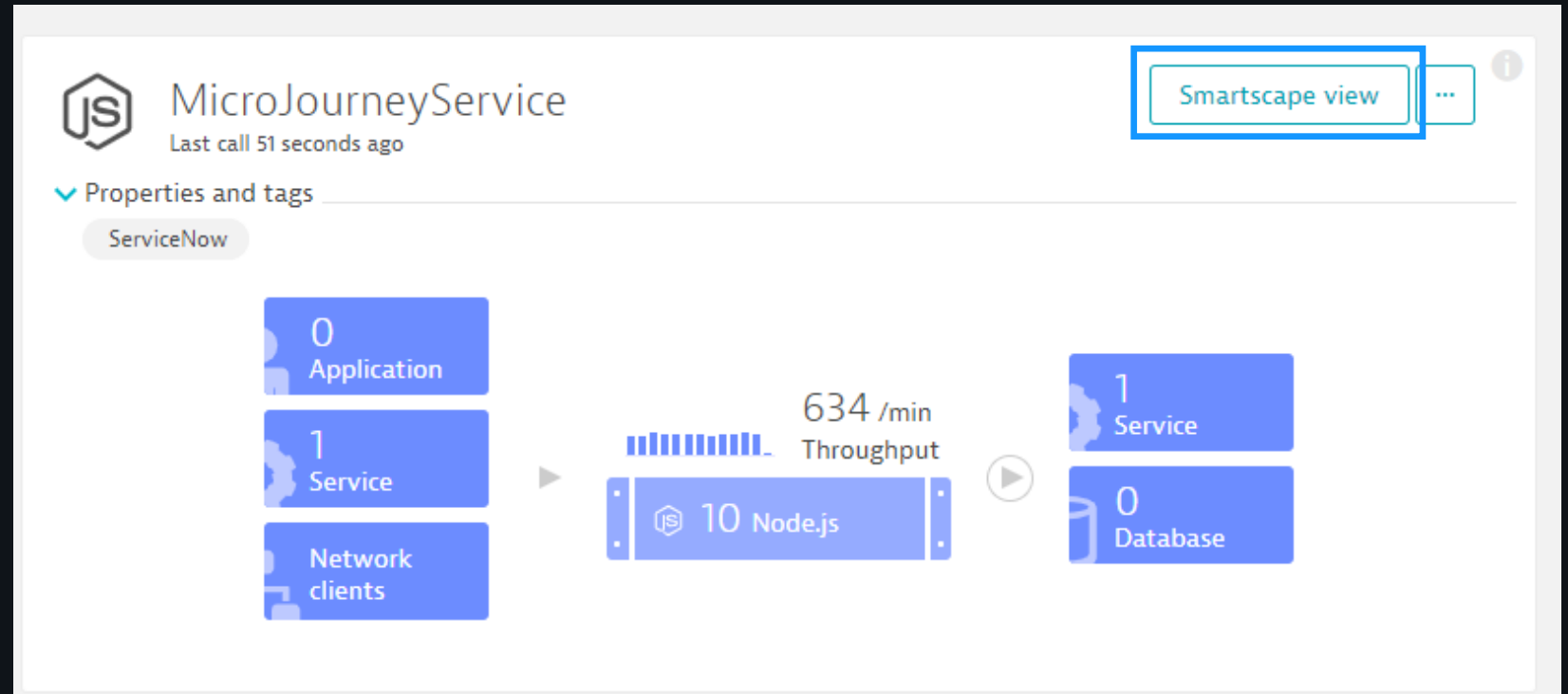
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## Drilling into the Smartscape



# Smartscape

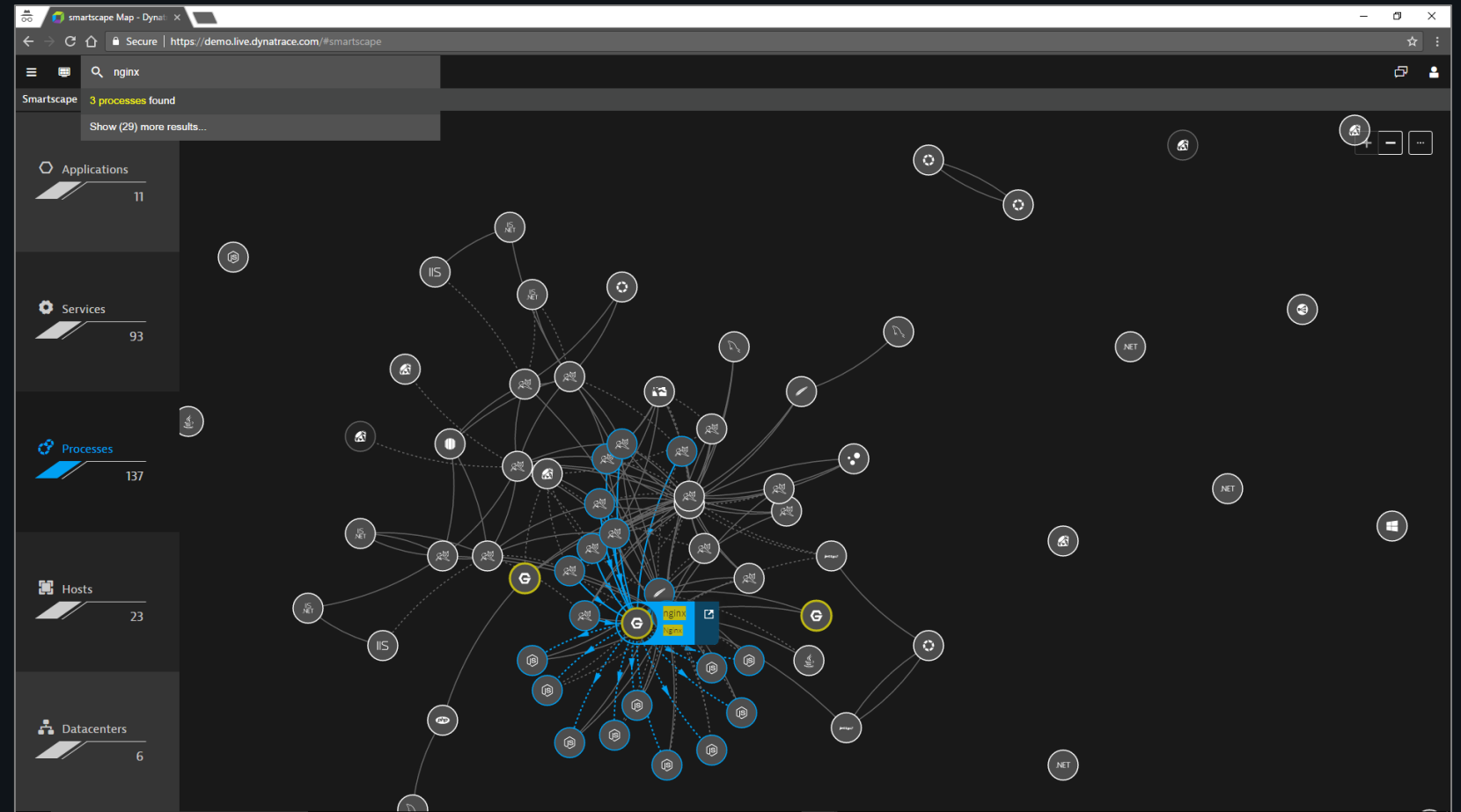
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## Searching the Smartscape





# Smartscape

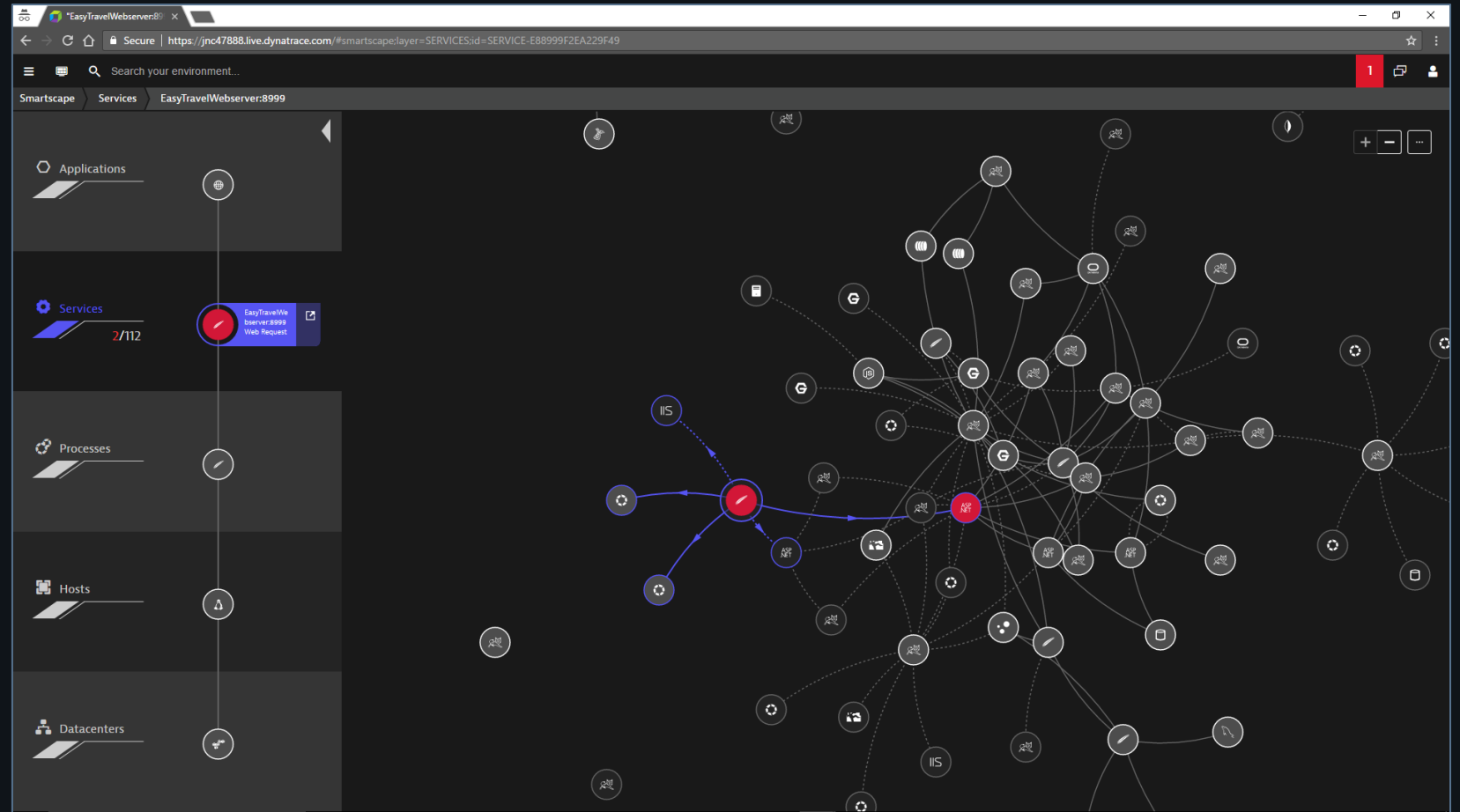
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Isolating Problems ◀

## Isolating Problems



# Questions?

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Simply smarter clouds