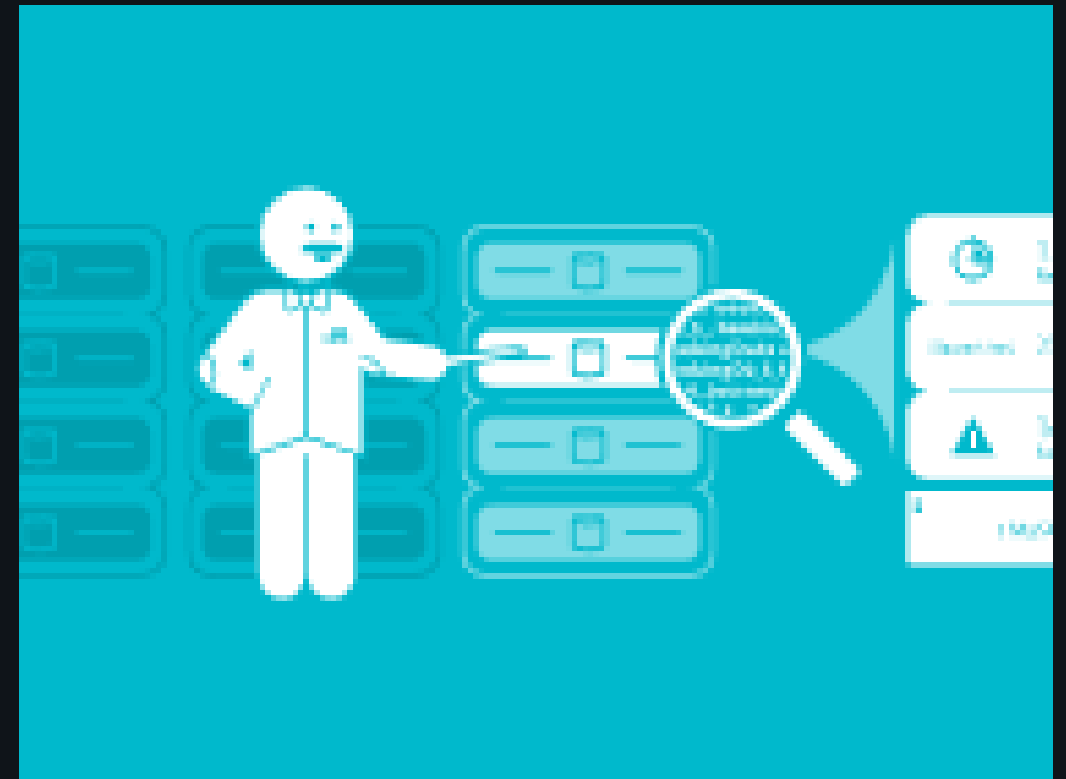# Database Analysis

Dynatrace Training Module

dynatrace

Database Monitoring

- Find expensive statements, for example those that read a lot of data

- Find out which services talk to each database most frequently

- See how much load is placed on your database by individual services

- See which users execute SQL statements

- Understand why some statements are slow

- Be notified of increased SQL statement costs and execution
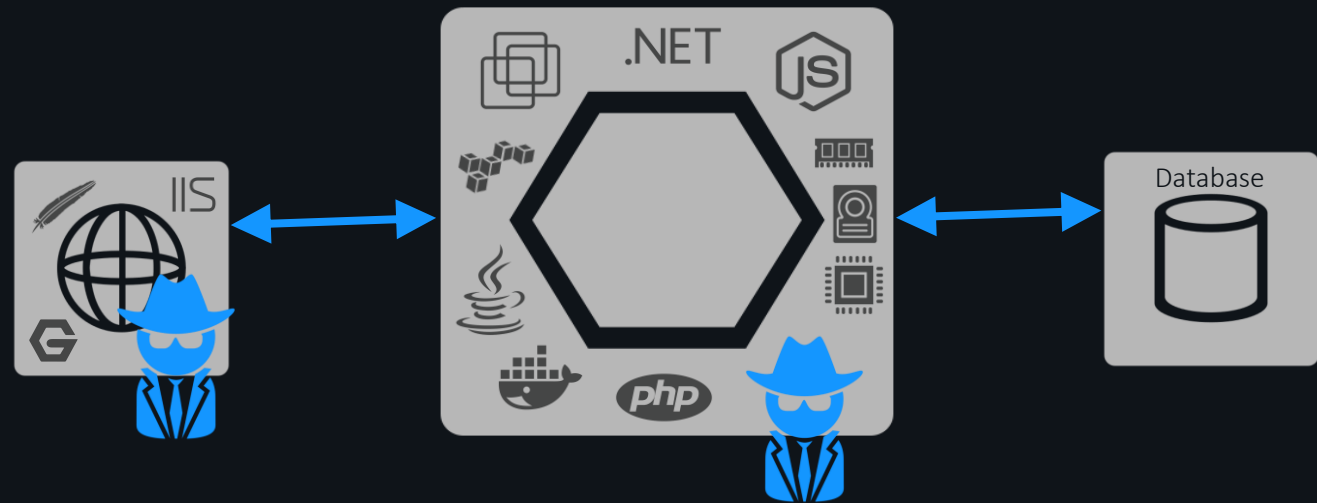
Database Monitoring

Monitoring Databases

- Dynatrace treats databases as external services

Database Monitoring

Monitoring Databases

- Critical to understand overall query performance for FDI

- Critical to understand which single query is causing an issue

- Treated as external service – monitor calls, rather than DB processes themselves

- Individual databases are tracked – able to implement baselines

- To capture the queries, a OneAgent is not required on the database host
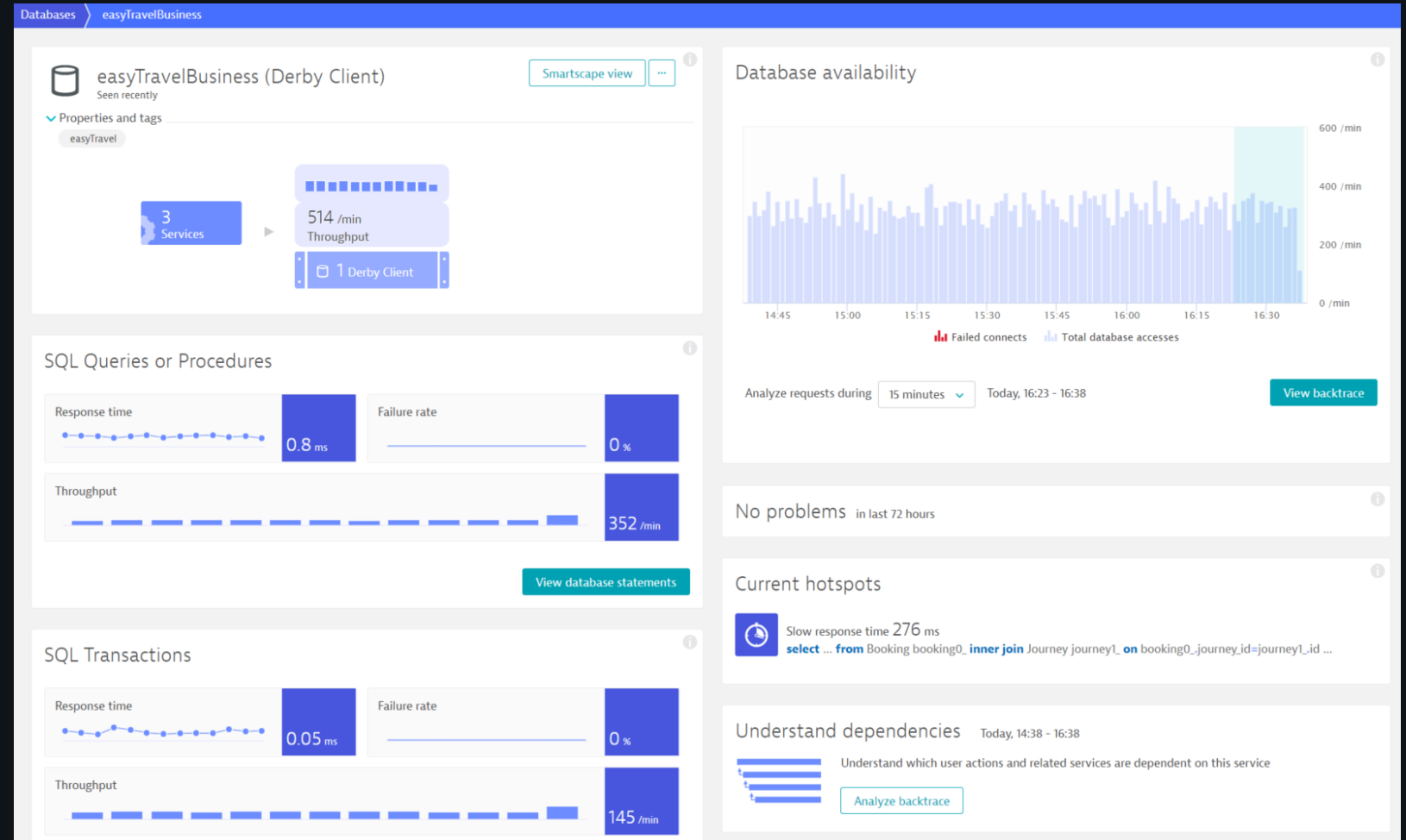
Database Monitoring

Analysis

How do I analyze Database Services?
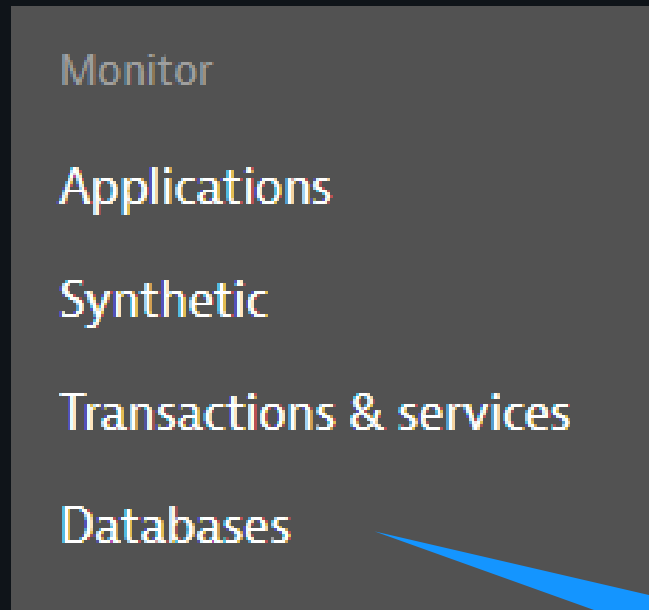
As a dashboard tile

OR
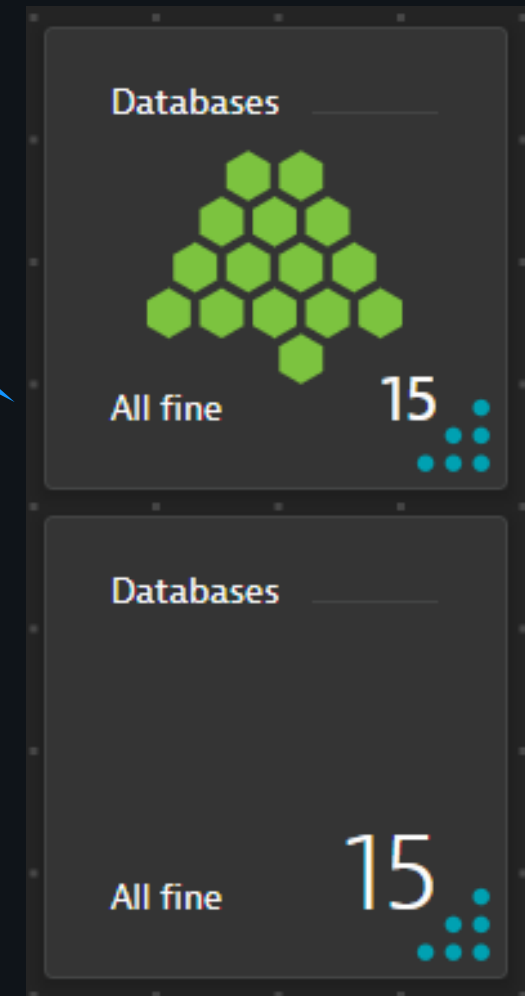
Main menu

Database Monitoring

Baselining

- What we watch for anomalies:

    - Response time of query commands

    - Failure rate of query commands

- We don't baseline every single query

- We baseline the *type* of query – commits, queries, and modifications

- If problem occurs, we do look back at the performance of all the queries for comparison

Database Monitoring

Problems

Database Monitoring

Failures

Database Monitoring

OneAgent on the Database Server

- Host level information

- Database process treated as a Process

- View log files

- Availability alerting

- Capable of getting process metrics via OOTB plugins

Options for enabling plugins found here

onitor on your hosts. If you only want to enable technology-specific monitoring for individual hosts,
em for individual hosts using host settings.

Monitorin

Proce   detection

Monitored technologies

RUM/Mobile monitoring ∨
Global settings and configuration

Cloud and virtualization ∨
Connect vCenter, AWS, or OpenStack

Service detection ∨
Manage & customize service detection

Log analytics ∨
Customize detection of log-based events

Anomaly detection ∨
Configure detection sensitivity

Integration ∨
Integrate Dynatrace with 3rd party syste...

Tagging ∨
Group components with custom tags

Preferences ∨
Automatic updates

	Supported technologies		Custom plugins

| Technology		Type	Monitoring: Off/On Edit
🧩	Plugin manager	Dynatrace plugin	I◯
☺	Configure Couchbase	BETA Dynatrace plugin	◯∘ ∨
📁	CouchDB	BETA Dynatrace plugin	◯∘ ∨
🐳	Docker containers Requires Dynatrace OneAgent version 1.87 or later	Dynatrace plugin	I◯ ∨
🔍	Configure Elasti		◯∘ ∨
	HAProxy Requires Dynatrace O		I◯ ∨
Ⓜ	Memcached	BETA Dynatrace	I◯
◊	MongoDB Requires Dynatrace OneAgent version 1.89 or later	BETA Dynatrace plugin	I◯ ∨
🐾	MSSQL Requires Dynatrace OneAgent version 1.85 or later	BETA Dynatrace plugin	I◯
🐬	MySQL Requires Dynatrace OneAgent version 1.85 or later	BETA Dynatrace plugin	I◯ ∨

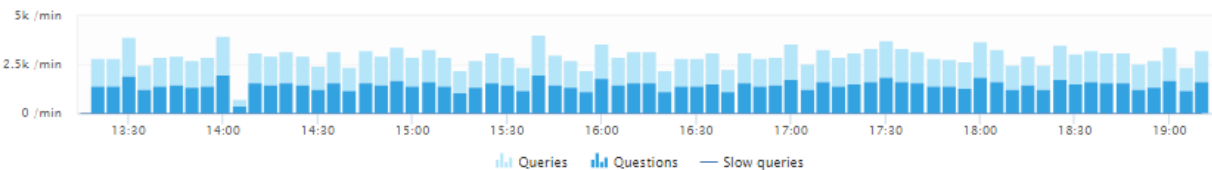Some technologies need additional configuration to collect metrics
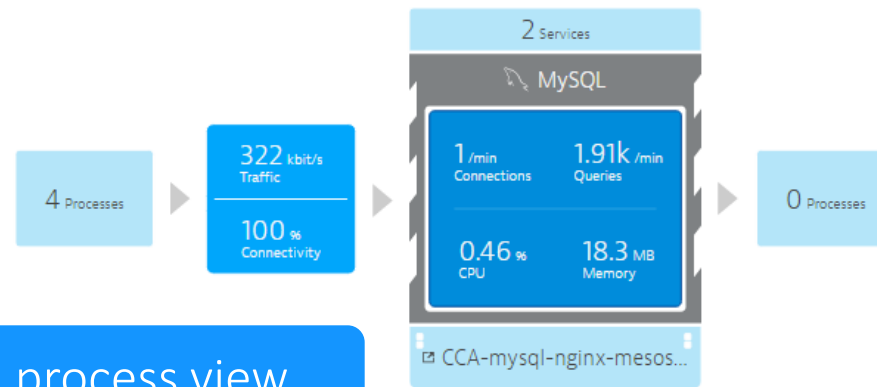
Plugin data populates in process view
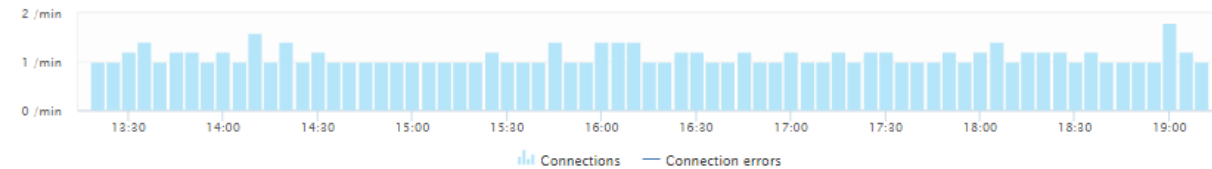
More metrics from plugin found in 'Further Details'
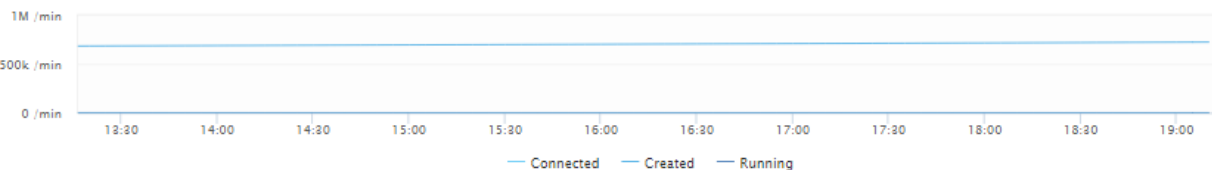
Questions?

Simply smarter clouds