

Instana Release Notes - Build #110

10. June 2016

Features

Full historization of Components

Moving back in time is a crucial capability to understand problematic situations, their development and how to fix them. With this release we are fully persisting all configuration data of all Components over time including their Changes.

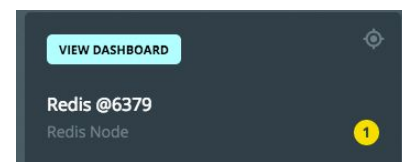
Just pick a time and you will see your whole environment with the map of that time (since last release) plus now the configuration data of each component for that moment in time.

Navigation Bar and Notification overview



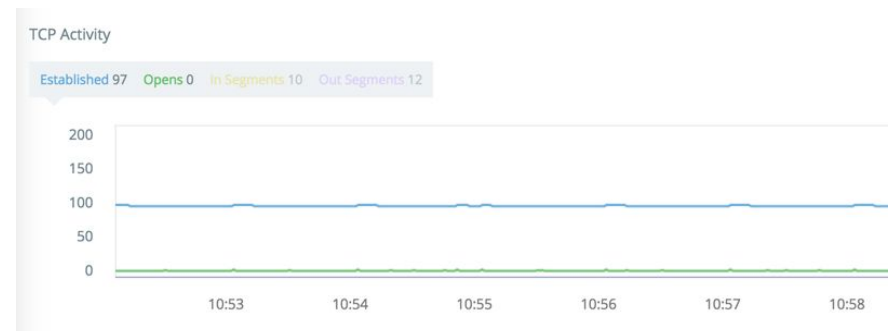
On the right you see an overview of the now active Incidents, Critical and Warning Issues. The color is either grey (no active Issue), yellow (at least one active Warning Issue) or red (at least one active Critical Issue). If you click it you will see the notification overview.

Locator



Click the crosshair on the top right of a sidebar and the map will center on the selected Component.

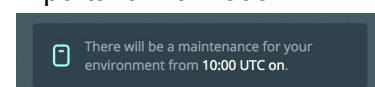
Deselect metrics in Charts



Simply click on a metric to hide it and once again to show it.

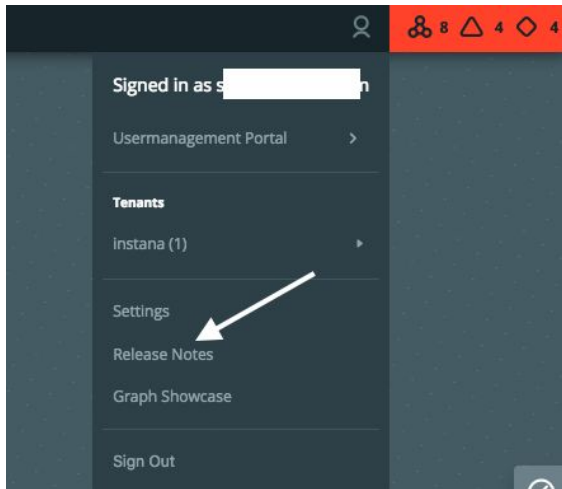
Maintenance Information and Release Notes

From now on we will inform you within the application about maintenance windows and other important information.



Also release notes are included in the product and presented if new notes are there. If you want to access them again:





Just click on the profile and on “Release Notes”.

Dynamic Graph Showcase

Instana is powered by the Dynamic Graph. You can now reveal the Dynamic Graph of your environment in the Graph showcase in the Account Menu.



Newly supported technologies

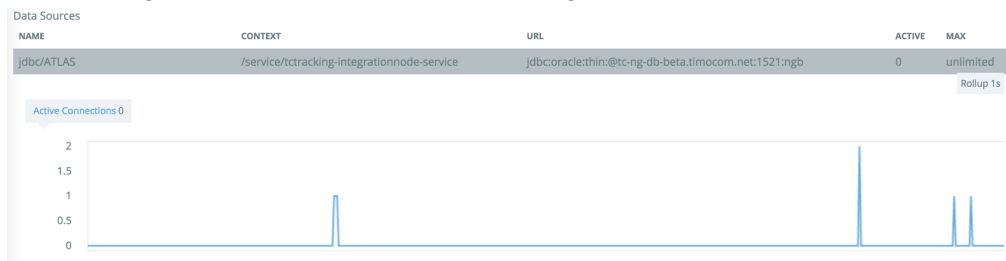
- **Dropwizard**

Our Sensor automatically detects Dropwizard and on top of the JVM. We collect the configured custom metrics out of Dropwizard automatically (Gauges, Counters and Metrics).

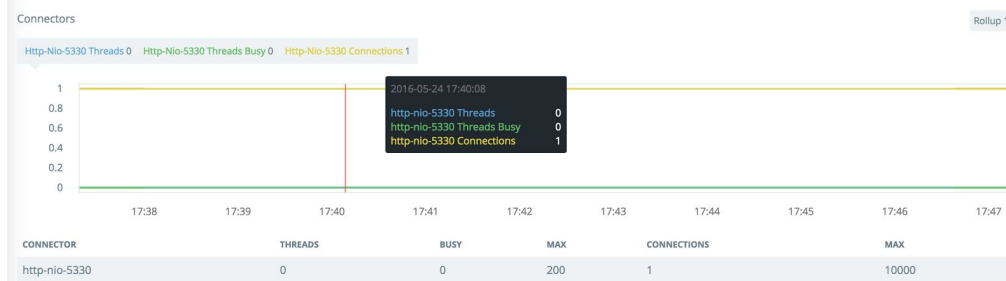
Improvements

- **Tomcat Sensor Improvements**

- Monitoring Data Sources (active and configured max)



- Monitoring Connector Threads, Threads busy, Connections



- Added Executor Monitoring

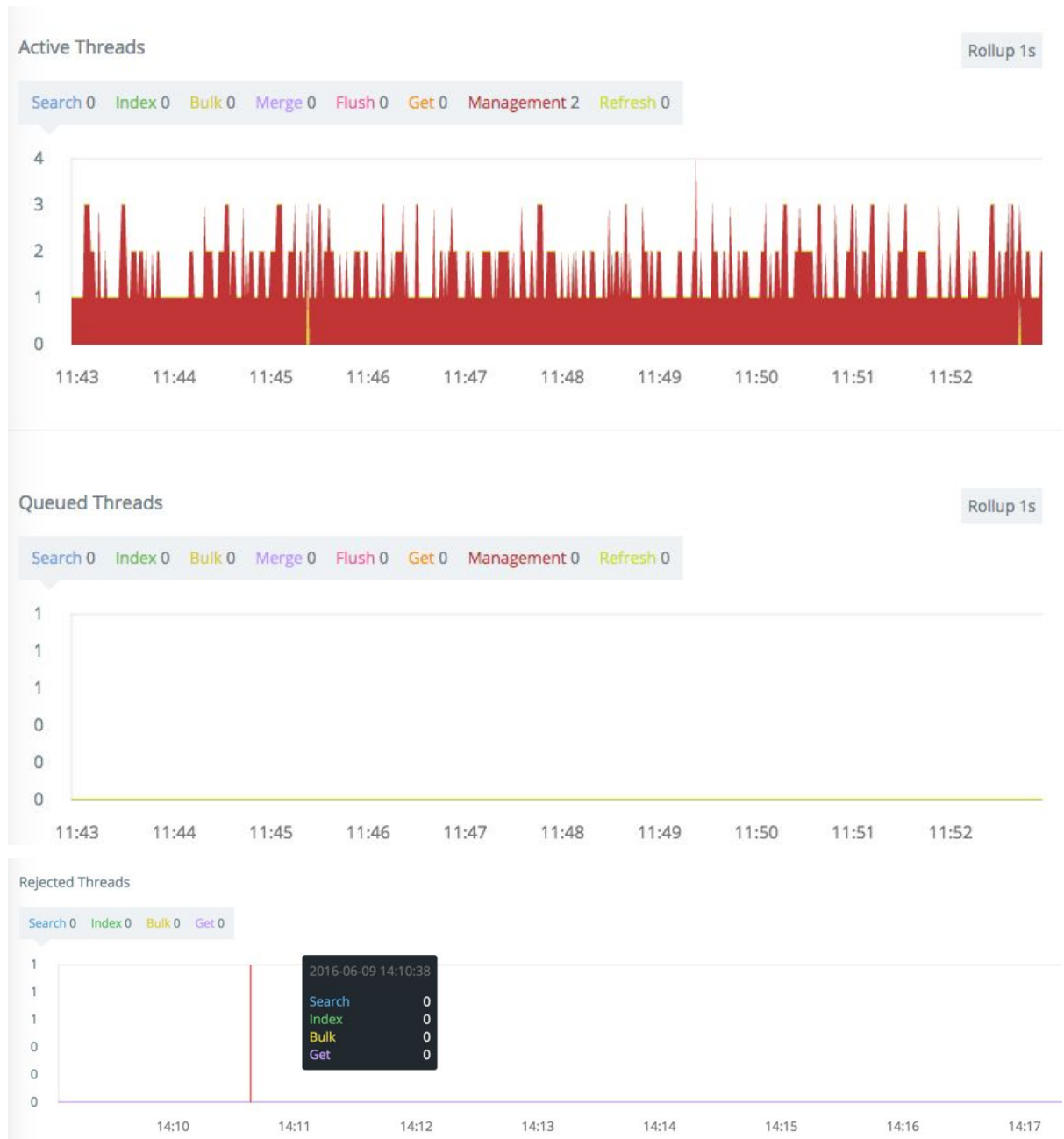
- **MySQL + MariaDB Sensor Improvements**

- Showing Version, Started at, Master/Slave, Replication Group (if applicable)
- Connection and query count now show delta values instead of absolute values

- **Elasticsearch Improvements**

- Node dashboards now shows active, rejected and queued threads

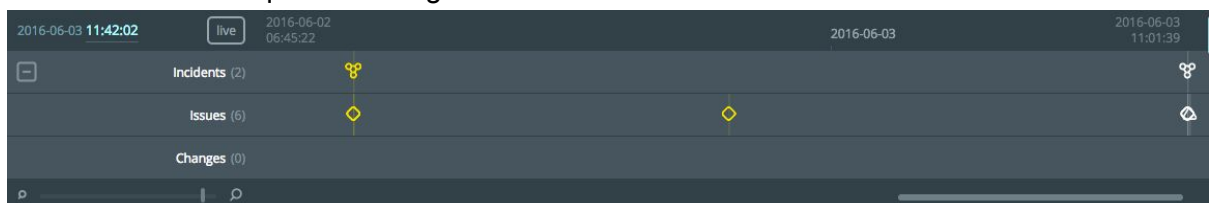




- Node Sidebar introduces Spark Charts and the Dashboard shows KPIs
- Cluster Dashboard includes Indices overview

- **Timeline Improvements**

- Scrollbar to move quicker through time



- showing the left and right “border” of the selected time window
- Indicators showing the selected time range
- click on an Event sets the Time Picker to that moment



- **Host Tags sent in notifications**

New Issue observed by Instana

Queueing Operations in Request/Response Stage on ip-
ial

The thread pool handling responses for requests made is queueing up operations.
This usually indicates a CPU bottleneck caused by too much work load. You
should consider scaling out your cluster.

Tags: global, cassandra, tenant:default_not_set, unit:default_not_set,
env:default_not_set

We now send all Host Tags in notifications for the component the alert was triggered for. For webhooks, this implies an additional element “tags” in the JSON being sent:

onOpen:

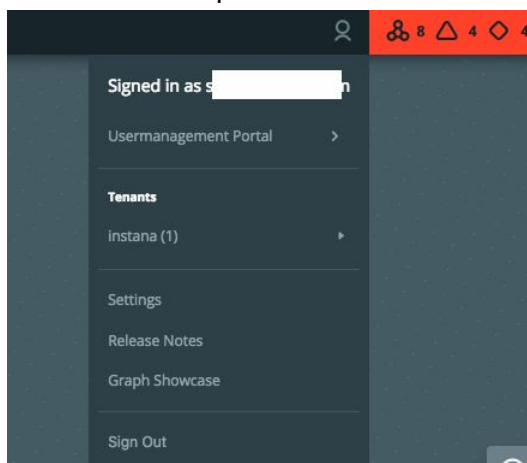
```
`{"issue":{"id":"53650436-8e35-49a3-a610-56b442ae7620","state":"OPEN","start":1460537793322,"severity":5,"text":"Garbage Collection Activity High (11%)","suggestion":"Tune your Garbage Collector, reduce allocation rate through code changes","link":"https://XXXXXXX/#/?snapshotId=rjhkZXdNzegliVVEswMScGNn0YY","fqdn":"host1.demo.com","tags":"production, documents, elasticsearch"}}
```

onClose:

```
`{"issue":{"id":"6596e1c9-d6e4-4a8e-85fd-432432eddac3","state":"CLOSED","end":1460537777478}}`
```

- **Reworked Account Menu**

Reworked for improved access and ease of use.



- Cleaned up RabbitMQ dashboard
- Much faster Java instrumentation
- Lowered CPU overhead for monitoring JMX



- Improve agent startup time. (To take advantage of this, a fresh installation of a new Agent is required)

Fixed Issues

- Elasticsearch Sensor compatibility with ES2.3
- Spurious exceptions in the agent log when activation and deactivation of sensors happened quickly were addressed.
- Java Tracing captures status code for all responses
- Fixed class circularity error during Java instrumentation
- In certain situations dashboards were fastly opened and closed

Known Issues

- Attaching to JVMs for monitoring can fail if a very restrictive security manager is in place. We are working on documenting how to configure the security manager for our agent to work correctly.

Please feedback via Slack or Mail to michael.krumm@instana.com around the new features, the improvements and especially your ideas and other points you have around Instana. We have a lot cooking at the moment so stay tuned - more to come soon!

