Prevent Catastrophes With Actionable Monitoring and Alerts for Mendix Applications

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Agenda

• Value of monitoring
• Exploration of new monitoring integration
• Partner WebFlight
Value of Monitoring
Value of Monitoring

• Is my app running as required?
• Am I meeting SLA requirements?
• Why is my app not running as required?
• Are my dependencies performing as expected?
Monitoring instruments

- **Measure:**
  - Logs
  - Technical Metrics (CPU, Memory Usage)
- **Act:**
  - Predefined Dashboards
  - Predefined Alerts
Sometimes, you want more monitoring
Datadog

Modern monitoring & analytics
See inside any stack, any app, at any scale, anywhere.

FREE TRIAL
VIDEO TOUR
Datadog: Monitoring instruments

• Measure:
  • Logs
  • Technical Metrics
  • Business Metrics (Count & Duration)

• Act:
  • Predefined Dashboards
  • Predefined Alerts
  • Custom Dashboards
  • Custom Alerts
  • Consolidated Logs
Datadog: Business Metrics

HospitalManager.DoctorsOnCall

3
Datadog: Duration
Datadog: Custom Dashboards
# Datadog: Custom Alerts

<table>
<thead>
<tr>
<th>Status</th>
<th>Name</th>
<th>Tags</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>Abnormal number of expected patients</td>
<td></td>
</tr>
<tr>
<td>OK</td>
<td>High levels of patients currently at hospital</td>
<td></td>
</tr>
<tr>
<td>OK</td>
<td>Hospital Apps Heartbeat</td>
<td></td>
</tr>
<tr>
<td>OK</td>
<td>Less than 5 doctors on call</td>
<td></td>
</tr>
</tbody>
</table>
Datadog: Landscape Management
Mendix and Datadog
## Mendix and Datadog: How To Setup?

### API Keys

Your **API keys** are unique to your organization. An API key is required by the **Datadog Agent** to submit metrics and events to Datadog.

<table>
<thead>
<tr>
<th>Name</th>
<th>Key</th>
<th>Created by</th>
<th>Created at (UTC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><code>MendixUser3415</code></td>
<td><code>mendix.user3415@mendix.com</code></td>
<td>2018-12-03 13:55:48</td>
</tr>
</tbody>
</table>

### New API key

- **API key name:**
- **Create API key**

*Your org must have at least one key and at most five keys*
Mendix and Datadog: How To Setup?

![Mendix Environment Variable Setup](image-url)
Mendix and Datadog: How To use Monitoring Instruments?

With one simple configuration, track the duration of:

- Request handlers
- Microflows
- Activities
Mendix and Datadog: How To use Monitoring Instruments?

Mendix Datadog Connector Kit (Coming Soon)
BUILD DIGITAL PRODUCTS THAT MAKE PEOPLE SMILE
USER CENTERED DEVELOPMENT

For more info about our User Centered Development visit our stand
Monitoring levels

“Is my app running out of memory?”
Monitoring levels

“How many orders did we process?”
Monitoring levels

“Is the connection with my ERP system available?”
Application monitoring
RAI Huishoudbeurs
RAI Huishoudbeurs

300,000 visitors in one week
50,000 downloaded apps
40,000 registered app users

Browse programs
Browse exhibitors
Participate in prize rounds
Demo
What to monitor? Everything?

Risk | Impact | Money

Probability
Submit custom metrics
Configure timeseries graph
Enjoy the graph!
Log analysis
How about logs?
Relate logs to graphs

- Annotate this graph
- View in full screen
- Copy tags to clipboard
- View related processes
- View related hosts
- View related logs
View logs and stack traces
Monitor alerts work with logs
External API monitoring
Osawa Screw Grinding Company
Monitoring external dependencies

- Webshop
- PIM
- Mendix App
- ERP
Monitoring availability
Email alert

[Monitor Alert] Triggered: Cannot connect to Magento - OSG e-commercePROD

Datadog Alerting <alert@dtdg.co>

To

[Triggered] Cannot connect to Magento - OSG e-commerce PROD

sum(last_5m):avg:MagentoConnectionLost(host:production).as_count() >> 1

The monitor was last triggered at Mon Apr 18 2022 07:58:23 UTC (5 secs ago).

[Monitor Status] [Edit Monitor] [Show Processes] [Related Logs]

This alert was raised by account OSG Europe Logistics S. A.

Comment In Datadog

To manage your Datadog subscriptions, click here.
Event stream

[Triggered] Cannot connect to Magento - DSG e-commerce PROD

Mendix cannot connect to Magento.

sum(last_5m):avg:magentoConnectionLost(host:production).as_count() >= 1

The monitor was last triggered at Mon Apr 08 2019 07:38:23 UTC (5 secs ago).


Mon Apr 08 2019 09:38:28 GMT+0200 (Mid-Europe/cover(tz)) • Add comment • Lower priority
What if the API specs change?
Do not cause alert fatigue
Load (stress) testing
Load testing – HTTP requests
Load testing – Database connections
Load testing – HTTP response times
Q&A