

Splunk ITSI with New Relic ... Better Together!

Splunk ITSI includes an 'APM Module' with pre-defined Key Performance Indicators (KPIs) for application performance. Adding APM KPIs to an ITSI Service is as simple as adding the New Relic TA, ingesting the data and selecting which KPIs you wish to include in your service. Here's the configuration:

Create Service [X]

Title*

Description

Team?

Add Prebuilt KPIs from Modules:

- ☒ **Application Monitoring**
- ☐ Application Servers
- ☐ Cloud Virtual Machine Monitoring
- ☐ Databases
- ☐ End User Experience Manageme...
- ☐ Load Balancers
- ☐ OS Hosts Monitoring
- ☐ Disk Monitoring

Service for Application Monitoring that provides key performance indicators to monitor the Application.

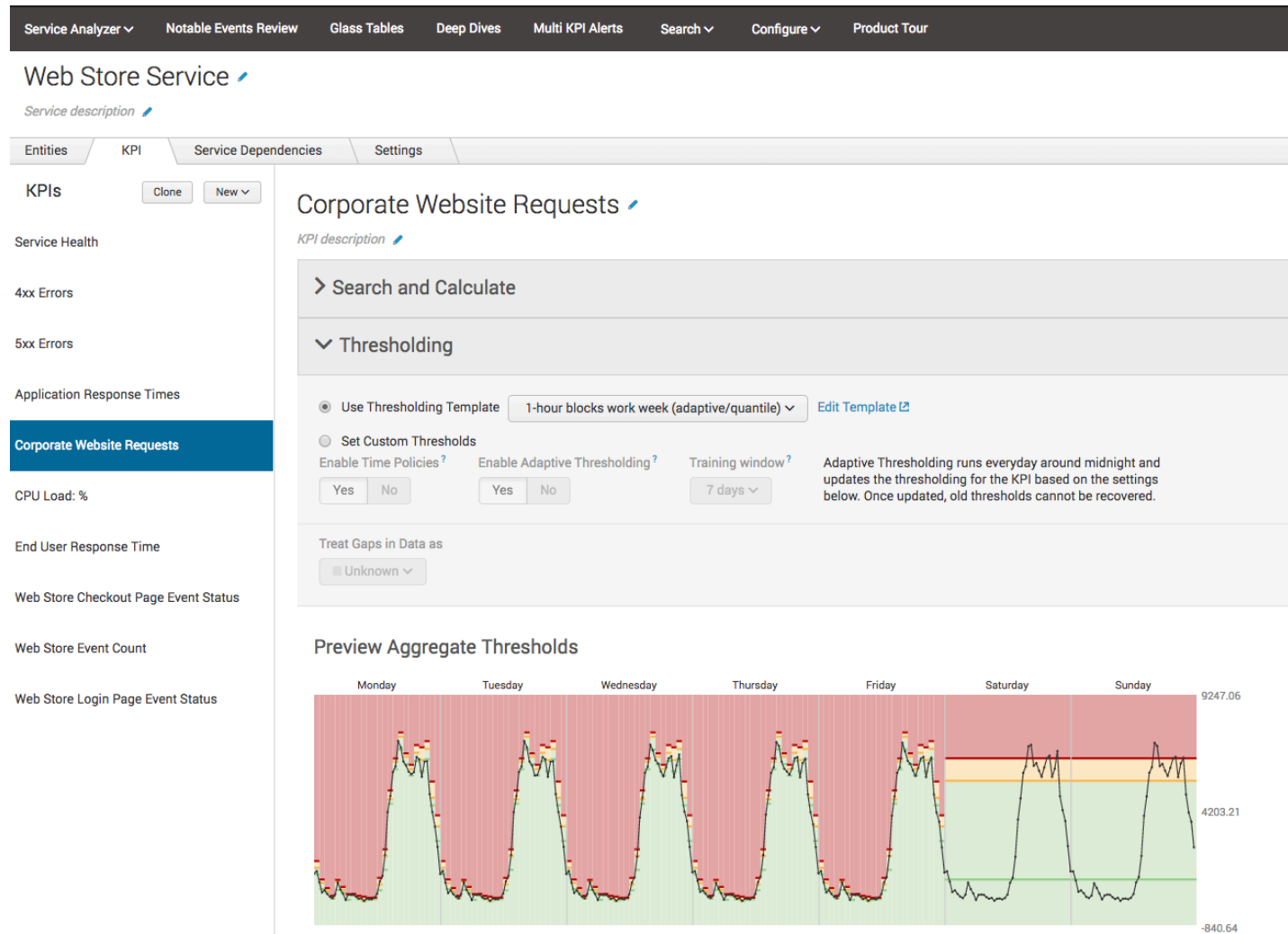
7/9 KPIs selected

- ☐ Application Apdex Score
- ☒ Application Availability
- ☒ Application Error Rate
- ☒ Application Health
- ☒ Application Requests Per Minute
- ☒ Application Response Time
- ☐ End User Apdex Score
- ☒ End User Requests Per Minute
- ☒ End User Response Time

Out of the Box KPIs

Splunk ITSI with New Relic ... Better Together!

Once the KPIs are added to your service, you can use static thresholds or apply ITSI's machine learning via Adaptive Thresholding to enable alerting. In the screenshot below we created a Service with a KPI for Website Requests. Using ITSI's Adaptive Thresholding we are able to apply machine learning to "learn" what the thresholds should be using standard deviation across weekdays and weekends all with the click of a button.



Splunk ITSI with New Relic ... Better Together!

With your KPIs added and thresholds set, you can create Glass Tables with any KPIs from any of your Services by simply dragging and dropping them onto a blank canvas:

The screenshot shows the 'APM Glass Table' configuration interface in Splunk ITSI. The interface is divided into several sections:

- Services List (Left):** A list of services with their KPI counts. 'APM Service (10)' is expanded, showing a list of KPIs: ServiceHealthScore, Application Apdex Score, Application Availability, Application Error Rate, Application Health, Application Requests Per Mi..., Application Response Time, End User Apdex Score, End User Requests Per Min..., and End User Response Time. Other services listed include Buttercup Store (7), Database Service (7), External Authorization Service, Middleware Service (9), Mobile App Sales (7), Mobile App Service (4), Support (6), test (1), Web Store Sales (7), and Web Store Service (10).
- Canvas (Center):** A workspace where KPIs are dragged and dropped. It contains several KPI cards:
 - ServiceHealthScore:** An orange card with a line graph and a value of 30.
 - Application Apdex Score:** A green card with a value of 0 and the unit 'num'.
 - Conversion Rate:** A red card with a value of 0 and the unit '%'. It is connected to the 'Application Apdex Score' card.
 - CPU Utilization:** A green card with a value of 34.05 and the unit '%'. It is connected to the 'Conversion Rate' card.
 - Successful Checkouts:** An orange card with a value of 0.
- Configurations (Right):** A panel for configuring the selected KPI. It shows details for 'KPI: ServiceHealthScore' and 'Service: APM Service'. It includes settings for Position, Layer, Width (302), Height (80), Label Box (On/Off), Label (ServiceHealth), Label Color (#999999), Label Font (Roboto), Label Font Size (Auto/Fixed/12), Label Location (Bottom), Rounded Value (On/Off), Use KPI Summary (Yes/No), Search (a complex Splunk search query), Run Search, Earliest Time (60 minutes ago), Thresholds (On/Off), Custom (On/Off), and buttons for Delete and Update.

Red annotations highlight key features:

- Out of the Box APM KPIs:** A red circle around the 'APM Service (10)' list, with arrows pointing to the 'ServiceHealthScore' and 'Application Apdex Score' KPIs on the canvas.
- KPIs can come from multiple Services:** A red circle around the 'Conversion Rate' and 'CPU Utilization' KPIs, with arrows pointing to the 'Buttercup Store (7)' and 'Database Service (7)' services in the list.

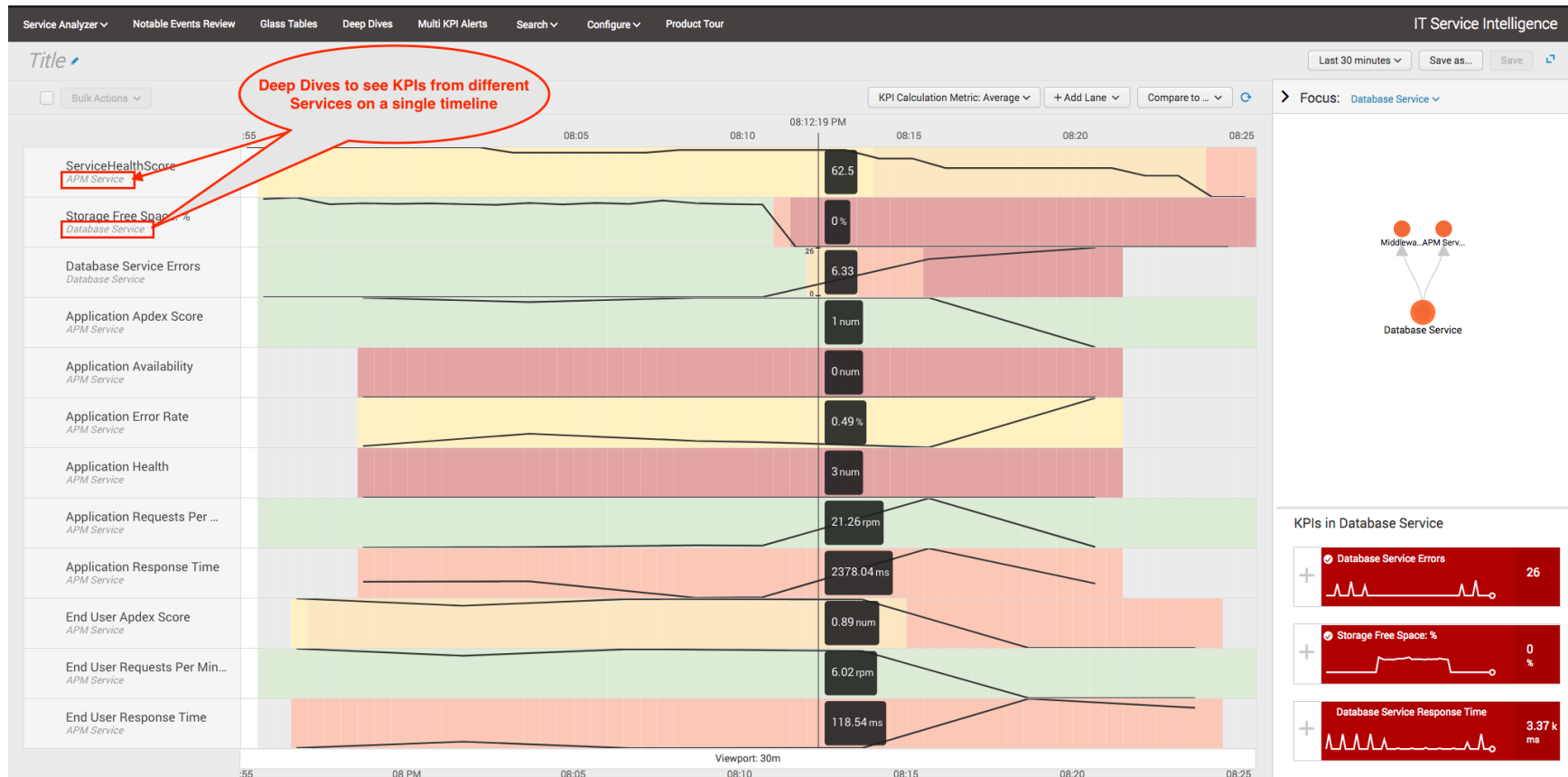
Splunk ITSI with New Relic ... Better Together!

Glass Tables are extremely flexible and can contain just about anything you want. From background images to the merging of operational and business metrics on a single dashboard. Here's an example of a bit more polished Glass Table:



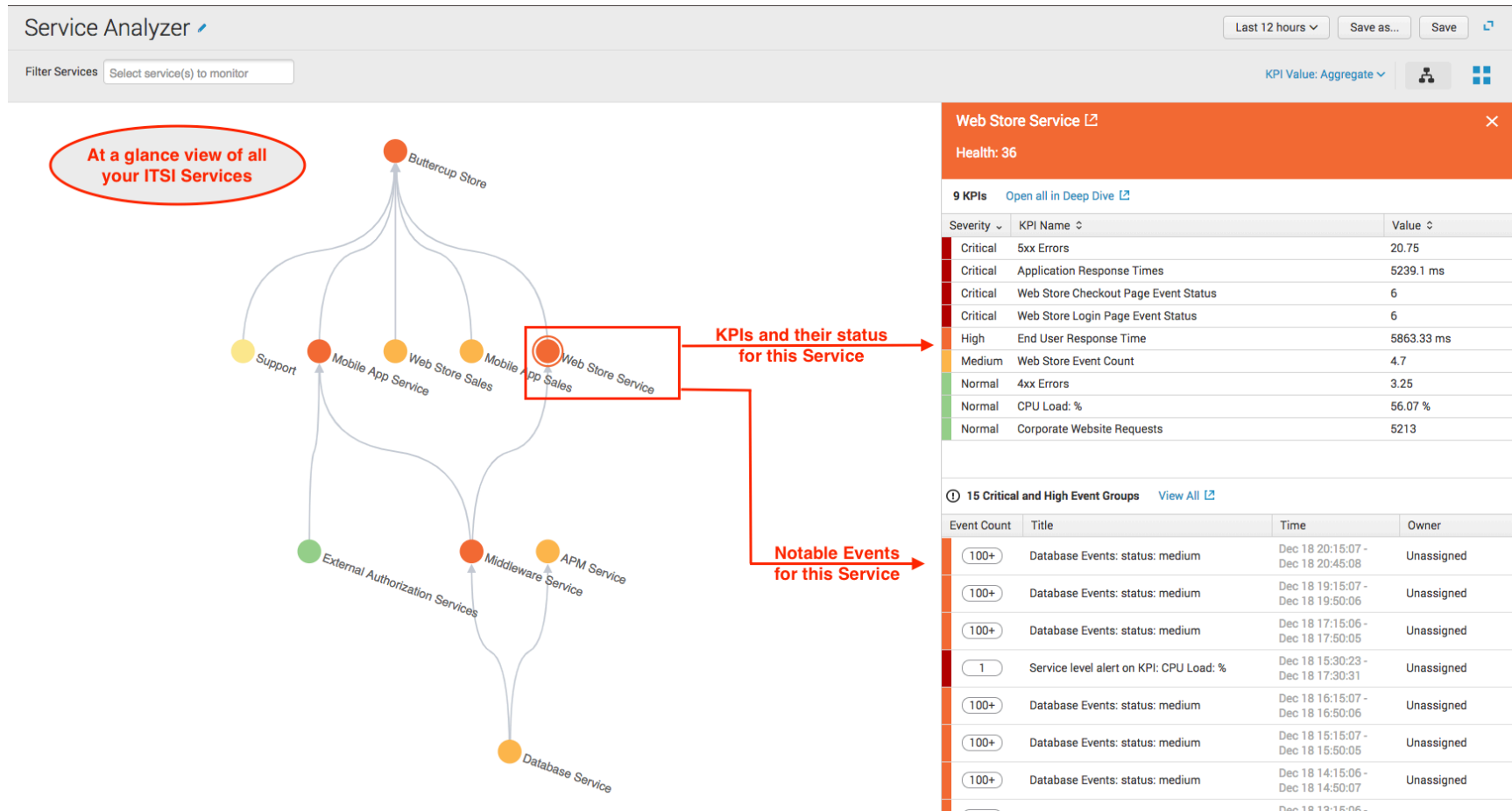
Splunk ITSI with New Relic ... Better Together!

Glass Tables can include links from the various KPIs to other Glass Tables, other Splunk Dashboards, external websites or ITSI Deep Dives. Here's an example of an ITSI Deep Dive showing KPIs from multiple Services. As you can see it's easy to visually correlate to see how various KPIs react in relation to each other. In this specific case, the Storage Server ran out of free disk space which ultimately led to database errors and application performance issues.



Splunk ITSI with New Relic ... Better Together!

The Service Analyzer page in ITSI provides an overall picture of all your services and the state of their KPIs. From here you can easily drill down into Deep Dives to quickly troubleshoot.



Splunk ITSI with New Relic ... Better Together!

Notable Events provide a way for you to filter the noise and use machine learning to correlate and group similar incidents/alerts. You can use this to quickly identify which KPIs are involved and which Services could be potentially affected downstream or upstream.

Service Analyzer ▾

Notable Events Review

Glass Tables


Deep Dives

Multi KPI Alerts



Search ▾

Configure ▾

Product Tour

> Notable Events Review 

40 groups Last 24 hours ▾ Add Filter ▾

Sorted by? Severity ▾  

100+

Database Events: status...


Mon Dec 18 2017 20:15:07 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: New

Description: Database Eve...



100+

Database Events: status...


Mon Dec 18 2017 19:15:07 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



100+

Database Events: status...


Mon Dec 18 2017 17:15:06 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



100+

Database Events: status...


Mon Dec 18 2017 16:15:07 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



100+

Database Events: status...


Mon Dec 18 2017 15:15:07 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



100+

Database Events: status...


Mon Dec 18 2017 14:15:06 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



100+

Database Events: status...

Mon Dec 18 2017 13:15:06 GMT+0000 (UTC) - Mon Dec 18 20...


Owner: rcao

Severity: High

Status: In Progress

Description: Database Even...

RC



100+

Database Events: status...


Mon Dec 18 2017 12:15:06 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



100+

Database Events: status...


Mon Dec 18 2017 11:15:06 GMT+0000 (UTC) - Mon Dec 18 20...

Owner: unassigned

Severity: High

Status: Resolved

Description: Database...



Acknowledge

Database Events: status: medium

Mon Dec 18 2017 20:15:07 GMT+0000 (UTC) - Mon Dec 18 2017 20:50:06 GMT+0000 (UTC)

Overview

Grouped Events

Comments

Activity

Description

Database Events status was medium (Health Score=58.82) at 2017-12-18 20:13:00.000 PM

Group Aggregation Details

188 Notable Events are grouped based on the aggregation policy: [Transaction Errors](#)

118

47

23

All Tickets

None

Contributing KPIs [Open all in Deep Dive](#)

Database Service Response Time

Database Service Errors

Storage Free Space: %

Possible Affected Services [Open all in Deep Dive](#)

Middleware Service

Web Store Service

Database Service

Splunk ITSI with New Relic ... Better Together!

Looking at the grouping tab, you can easily see patterns within the notable events that may help to quickly isolate trouble spots and lead to reduced MTTR.

Service Analyzer ▾

Notable Events Review

Glass Tables

Deep Dives

Multi KPI Alerts

Search ▾

Configure ▾

Product Tour

IT Service Intelligence

Notable Events Review

40 groups Last 24 hours ▾ Add Filter ▾ search Show Timeline ▾

Sorted by? ▾ Severity ▾

Database Events: status: medium
Mon Dec 18 2017 13:15:06 GMT+0000 (UTC) - Mon Dec 18 2017 13:57:01 GMT+0000 (UTC)

Overview Grouped Events Comments Activity

Critical

High

Medium

Low

Normal

Info

13:15 13:20 13:25 13:30 13:35 13:40 13:45 13:50

Severity ▾	Title ▾	_time ▾	Drill-down Search ▾	Drill-down Link ▾	Search ▾
High	Database Events: status: critical	2017-12-18 13:50:05.490			Q
High	Database Events: status: high	2017-12-18 13:50:05.490			Q
High	Database Events: status: high	2017-12-18 13:50:05.480			Q
Critical	New Relic Web Checkout: status = red	2017-12-18 13:45:07.610			Q
Critical	New Relic Web Order Status: status = red	2017-12-18 13:45:07.610			Q
Critical	New Relic Web Product Details: status = red	2017-12-18 13:45:07.600			Q
Critical	New Relic Web Search: status = red	2017-12-18 13:45:07.590			Q
Critical	New Relic Web View Cart: status = red	2017-12-18 13:45:07.590			Q
Critical	New Relic Web Add to Cart: status = red	2017-12-18 13:45:07.590			Q
Critical	New Relic API View Cart: status = red	2017-12-18 13:45:07.590			Q

Database Events: status: medium			
Mon Dec 18 2017 13:15:06 GMT+0000 (UTC) - Mon Dec 18 2017 13:57:01 GMT+0000 (UTC)			
Overview	Grouped Events	Comments	Activity
<div>Critical</div> <div>High</div> <div>Medium</div> <div>Low</div> <div>Normal</div> <div>Info</div> <div>13:1513:2013:2513:3013:3513:4013:4513:50</div>			
Severity ▾	Title ▾	_time ▾	Drill-down Search ▾
High	Database Events: status: critical	2017-12-18 13:50:05.490	Q
High	Database Events: status: high	2017-12-18 13:50:05.490	Q
High	Database Events: status: high	2017-12-18 13:50:05.480	Q
Critical	New Relic Web Checkout: status = red	2017-12-18 13:45:07.610	Q
Critical	New Relic Web Order Status: status = red	2017-12-18 13:45:07.610	Q
Critical	New Relic Web Product Details: status = red	2017-12-18 13:45:07.600	Q
Critical	New Relic Web Search: status = red	2017-12-18 13:45:07.590	Q
Critical	New Relic Web View Cart: status = red	2017-12-18 13:45:07.590	Q
Critical	New Relic Web Add to Cart: status = red	2017-12-18 13:45:07.590	Q
Critical	New Relic API View Cart: status = red	2017-12-18 13:45:07.590	Q