## Alerts Best Practices

Building Alert Policies that don't keep you up at night

Kajan Moorthy
Senior Solutions Consultant

# Agenda

1	Housekeeping + Prerequisites
2	Key Concepts and Best Practices
3	Hands-on labs
4	Q&A

### Prerequisites

#### You will need:

- A glitch account (free) <u>www.glitch.com</u> from the previous sessions
  - .. Or

Your own application/service monitored by New Relic

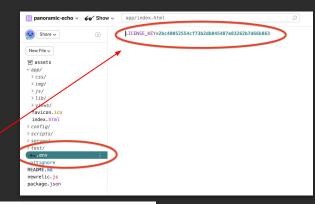
- A New Relic account www.newrelic.com
  - .. and License key (which you can find under the account settings drop down)

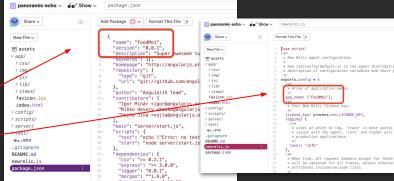
Let's take 5 minutes to make sure you are ready to go.

## Lab: FoodMe Step 1

### Clone FoodMe into a Glitch account

- Create an account at glitch.com
- Visit the url: to clone foodme into your Glitch account
- Edit the `.env` file to contain your New Relic license key
- Set the name of the application in the Newrelic.js file and package.json file





### Alerting - Best Practises

https://blog.newrelic.com/product-news/alerts-getting-started-best-practices/

https://newrelic.com/resource/effective-alerting-guide

- Make Alerts 'actionable'
- Alert as close to the source as possible
- Test to start or use Baseline Metrics & adjust over time

Avoid too low thresholds (cause alert fatigue)

Disable alert conditions - eg. while testing others

### Lab: Create Alert Policies based on established thresholds

**Create a policy** to contain a series of conditions that monitor overall user experience.

Use the following naming convention for the Policy:

'service-name' User-Experience 'your-team-name'

As it will have a range of conditions across the stack, you want to group any issues that are triggered together so that you can review and resolve them in one place if performance degrades.

Which incident preference option should you choose?

Add the following conditions:

- **APM > Backend Apdex drop below 0.85 for 5** minutes. Add a warning of your choice
- **Browser > Pageload time (2 seconds)** Add a warning of your choice

Note: Use explicit condition names for the following conditions eg. 'service-name' 'condition' 'value exceeded'

### Lab: Alerting on a new application or unpredictable behaviour



Add an alert condition to your "User-Experience" policy you have set up already.

Select the **Browser category** > 'Metric Baseline' condition type.

Choose AJAX Response Time > Upper Only > for 3 minutes

- choose a sensitivity setting with the **slider** 

### NRQL Alerts

#### **Query results**

- Queries must return a <u>number</u>
- The alert condition works by evaluating that returned number against thresholds you set

#### **Threshold Types**

#### **Static**

 Condition based on the value returned

#### **Baseline**

 self-adjusting condition - based on the past behavior of the monitored values

#### **Outlier**

 Looks for values that are outliers from a FACET group

### Lab: Create Alert Policies using NRQL

Query your Custom Data and get alerted on it



Add an alert condition to the "User-Experience" policy you have set up already.

Select the NRQL category, and use the following NRQL query:

SELECT average (orderTotal) AS 'Average Order' FROM Transaction WHERE appName = 'my-FoodMe-app-name' AND name LIKE '%api/order'



Use the Static Threshold type:

- when query returns a value > above
- 50 > at least once in > 3 minutes

Add the condition name:

- 'Order Value Average > 50 FoodMe App'
- Set Violation time limit
  - 300 seconds



### Lab: Notify the right team

Use the Webhook Notification Channel

Now that the alert conditions have been configured, it's time to set up the notification channels. For this specific Alert Policy, the Operations team needs to integrate the alerts with their Third Party Too so you plan to use the **Webhook** channel option.

- Choose an Operations `teamName' (family-friendly!)
- Create a webhook notification channel that will send notifications to <a href="https://webhook.nru.to/">https://webhook.nru.to/</a>
  - Alerts > Notification Channels > + New Notification
  - Channel Channel Type > Webhook
  - Channel Name: 'My Operations team name'
     Webhook
  - Base Url: <a href="https://webhook.nru.to/">https://webhook.nru.to/</a>

3

Customise the webhook JSON Payload by adding an additional key value pair for your 'teamName':

- "teamName": "MyOpsTeamName-FoodMe",
- Save / Create Channel
- Send a 'Notification Test' Check for '200'
- Check the Third Party Tool (indicator page!)
   <a href="https://alert-indicator.nru.to/">https://alert-indicator.nru.to/</a>
- 4

Start adding Food Delivery orders of over \$50 value on your Glitch site

- Does your indicator change colour??
- Once it changes, Query your data and see what the average order value is. You can try out higher values... ©2008-20 New Relic, Inc. All rights reserved New Relic. 10

### Homework Labs: Loss of Signal & AlOps

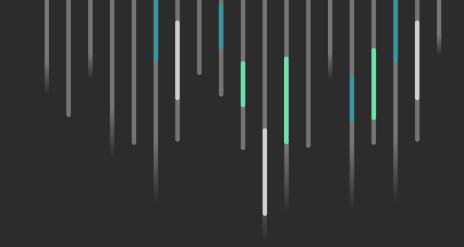
### Lab 1

- Create a new Condition using NRQL.
- Specify a NRQL query for Transactions for a Service and Add lost signal threshold.

#### Lab 2

- Enable Proactive Detection.
- Send notifications to your Slack channel.





# Thank You

learn newrelic com

