



*influx*/days

## Alerts and Tasks

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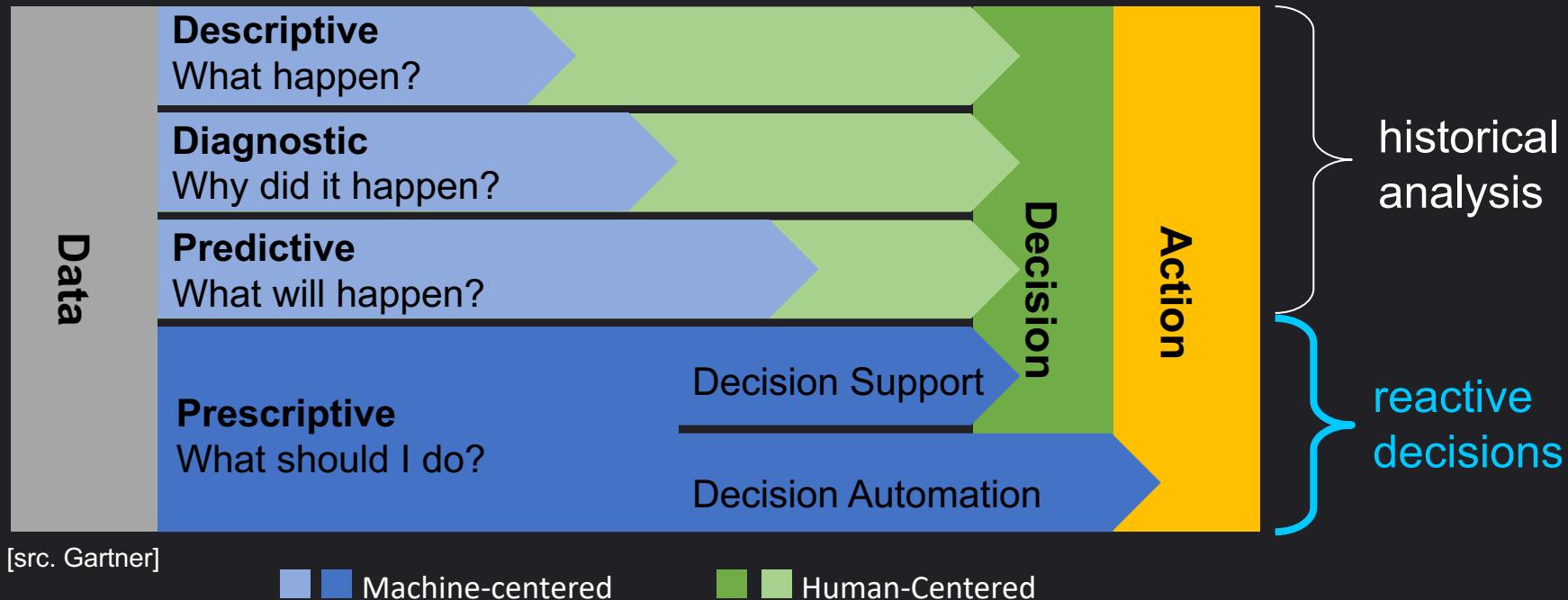
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# Alerts



# Data-driven decision

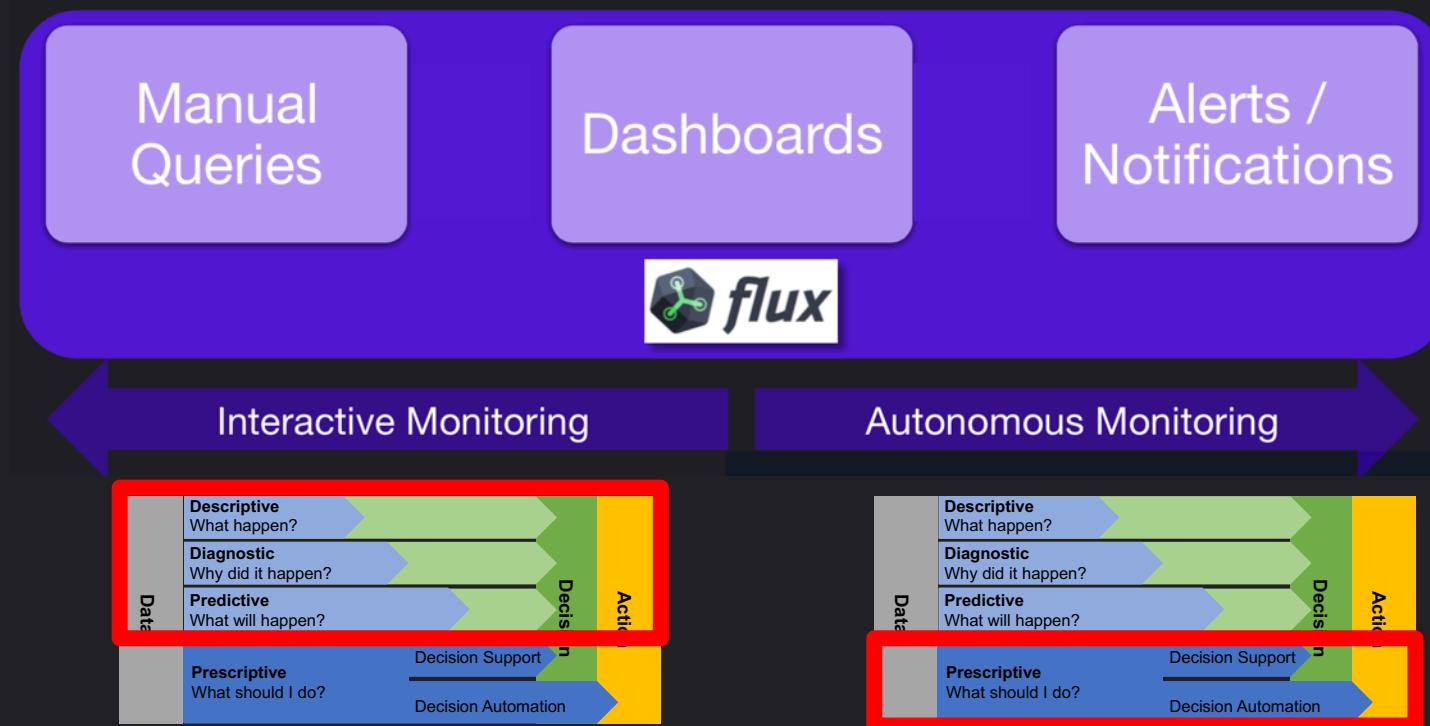


[src. Gartner]

Machine-centered

Human-Centred

# Interactive vs. Autonomous Monitoring



# Alerts

## Types of Alerts

- Threshold
- Deadman

Alerts are defined as

- a base query
- threshold criteria
- condition mapping
- notifications

The image displays three panels from a monitoring application:

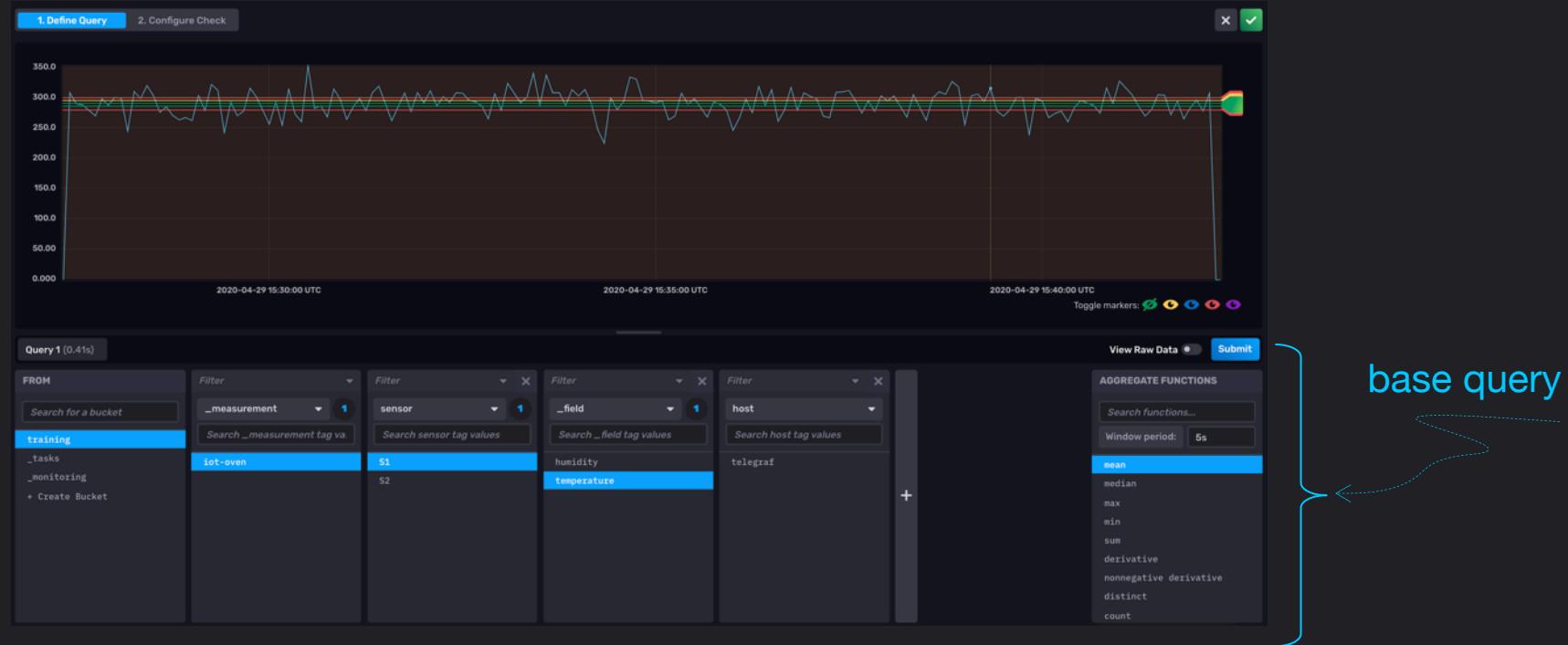
- Checks**: Shows a single check named "Cooking Base Area Temp". It has a blue status indicator, no description, was last completed at 2020-04-29T15:36:00Z, and was last updated 17 minutes ago. There is a "+ Add a label" button.
- Notification Endpoints**: Shows a single endpoint named "CBAT-slack". It has a grey status indicator, is associated with "Cooking Base Aerea Temp EP", was last updated a few seconds ago, and has a "+ Add a label" button.
- Notification Rules**: Shows a single rule named "Cooking Base Aerea Not Rules". It has a grey status indicator, no description, was last completed at 2020-04-29T15:36:00Z, and was last updated a few seconds ago. There is a "+ Add a label" button.

# Alerts UI

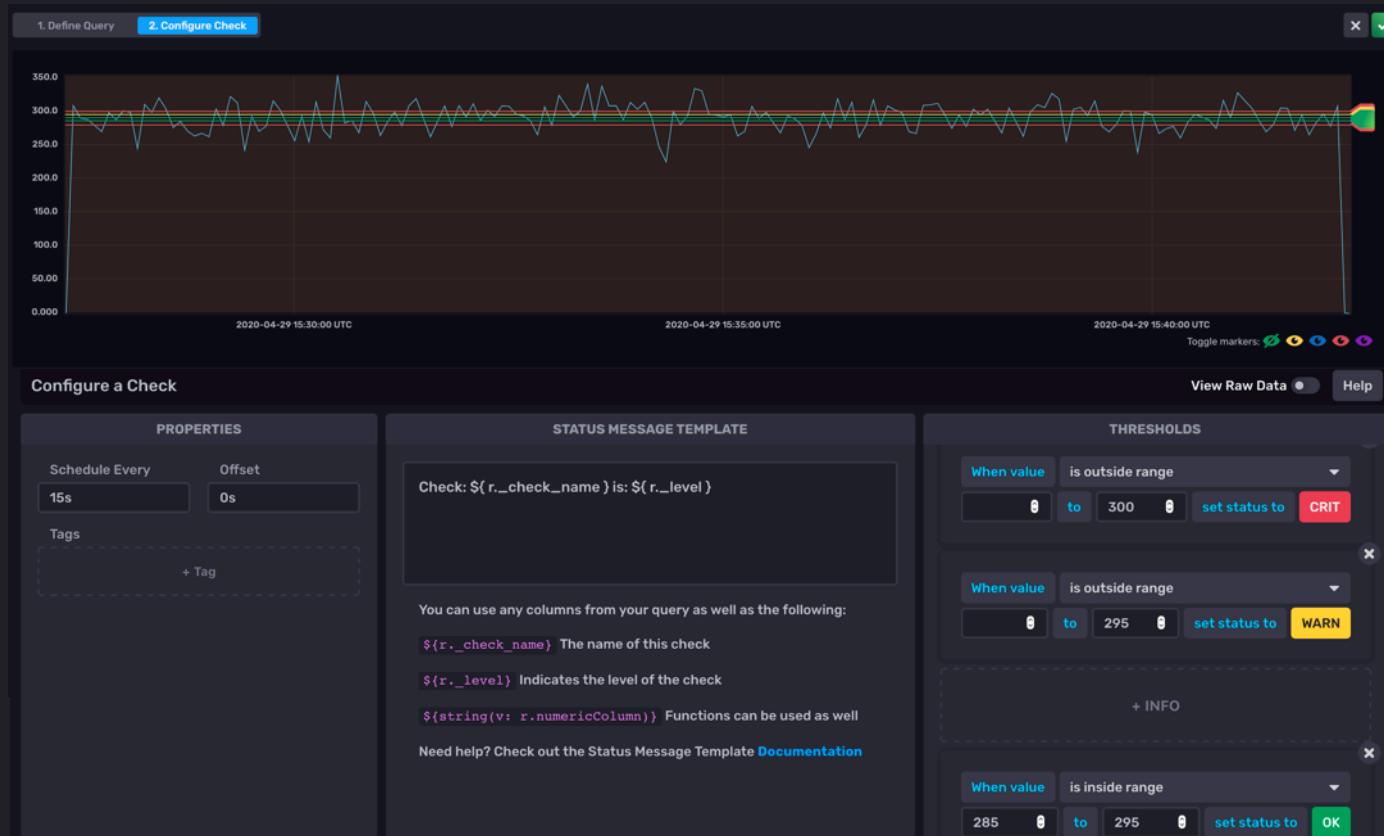
The screenshot displays the 'Alerts UI' interface with three main sections:

- Checks**: A panel for managing checks. It includes a '+ Create' button, a search bar ('Filter Checks...'), and a card for 'Cooking Base Area Temp'. The card shows it's active (blue switch), has no description, was last completed at 2020-04-30T08:37:15Z, was last updated 15 hours ago, and has a '+ Add a label' button.
- Notification Endpoints**: A panel for managing notification endpoints. It includes a '+ Create' button, a search bar ('Filter Notification Endpoints...'), and a card for 'CBAT-slack'. The card shows it's active (blue switch), is named 'Cooking Base Aerea Temp EP', was last updated 17 hours ago, and has a '+ Add a label' button.
- Notification Rules**: A panel for managing notification rules. It includes a '+ Create' button, a search bar ('Filter Notification Rules...'), and a card for 'Cooking Base Aerea Not Rules'. The card shows it's active (blue switch), has no description, was last completed at 2020-04-29T15:36:00Z, was last updated 17 hours ago, and has a '+ Add a label' button.

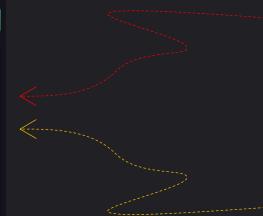
# Alerts UI – check view – query pane



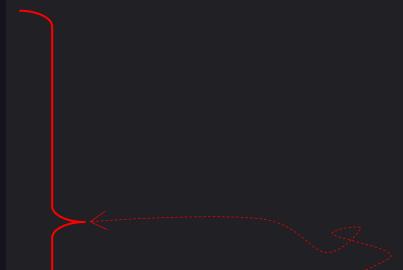
# Alerts UI – check view – check pane



critic condition threshold



warn condition threshold



threshold criteria condition mapping

# Notifications

Possibility to define

- Notification endpoints on a Slack channel
- Notification rules
  - When
  - What

The screenshot shows a dark-themed dashboard with three main sections:

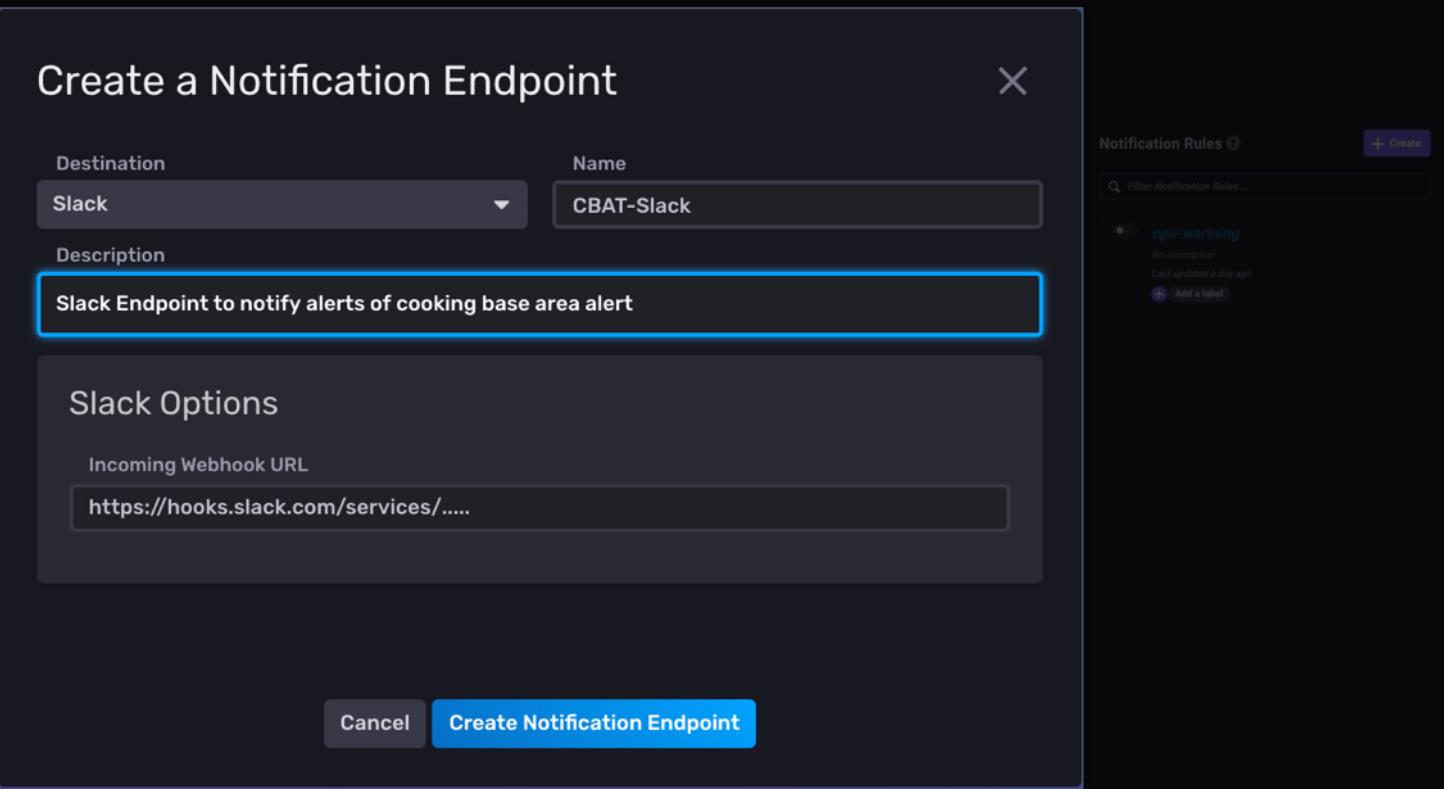
- Checks**: A list of monitoring items. One item is shown: "Cooking Base Area Temp" (status: green, last updated 15 hours ago). Actions: "+ Create", "Filter Checks...", "Add a label".
- Notification Endpoints**: A list of notification endpoints. One endpoint is shown: "CBAT-slack" (status: grey, last updated 17 hours ago). Actions: "+ Create", "Filter Notification Endpoints...", "Add a label".
- Notification Rules**: A list of notification rules. One rule is shown: "Cooking Base Aerea Not Rules" (status: grey, last updated 17 hours ago). Actions: "+ Create", "Filter Notification Rules...", "Add a label".

# Notification

## Possibility to

- Notifications endpoint via a Slack channel

- Notifications
  - Where
  - What



# Notifications

Possibility to do:

- Notification endpoints can be defined in a Slack channel

- Notification configuration
  - When
  - What

### Edit this Notification Rule

About

Name: Cooking Base Aerea Not Rules  
Schedule Every: 15s Offset: 0s

Conditions

When status is equal to CRIT

+ Tag Filter

Message

Notification Endpoint: CBAT-slack  
Message Template:  
Notification Rule: \${r.notification\_rule\_name} triggered by check: \${r.check\_name}: \${r.message}

Save Changes

Notification Rules + Create

cpu-warning

No description  
Last updated a day ago

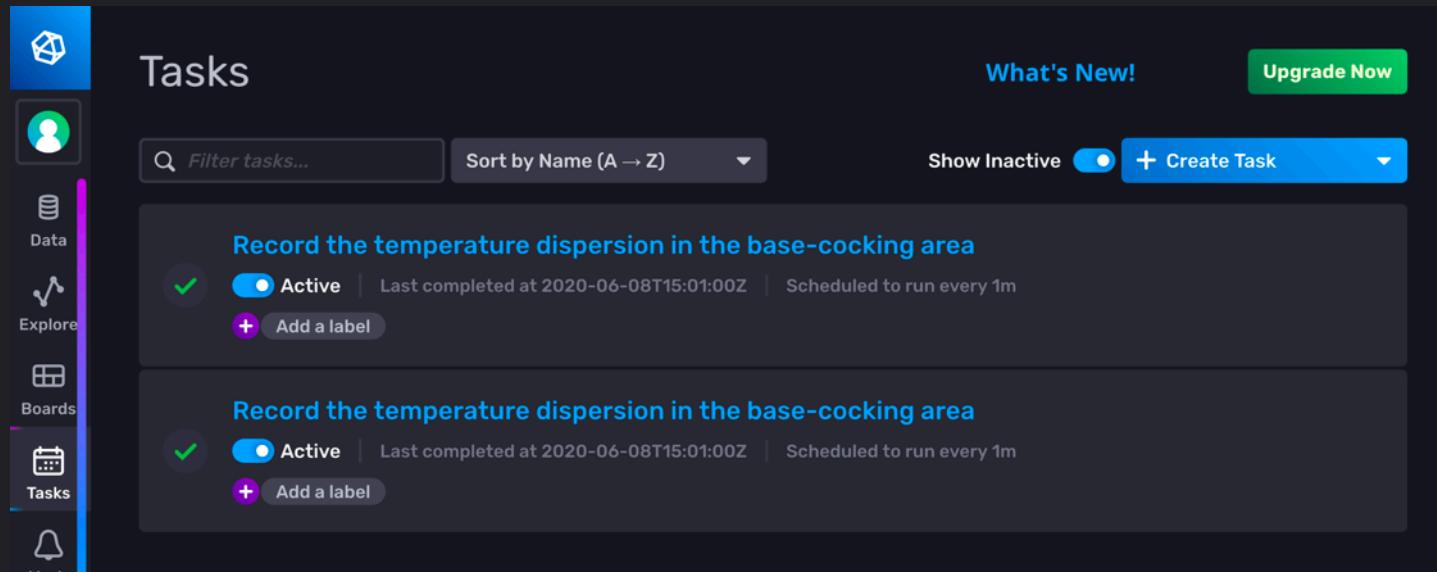
Add a label

# Tasks



# Tasks

- The power of Flux for continuous processing and analysis

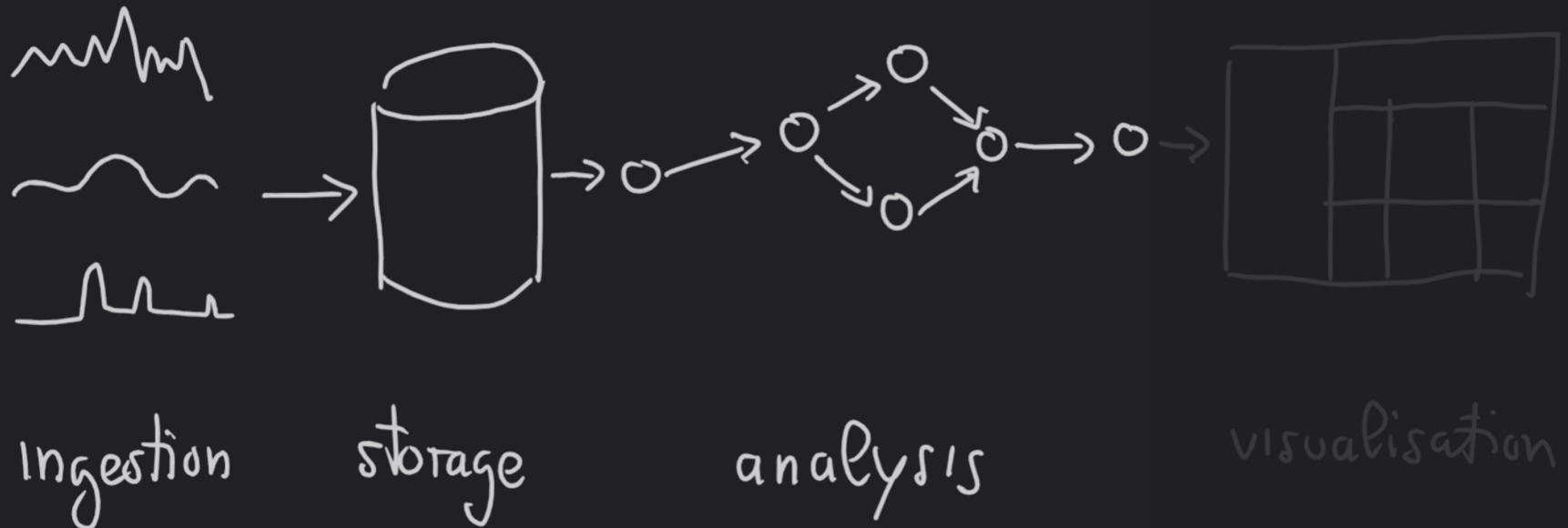


The screenshot shows a task management interface with a dark theme. On the left is a vertical sidebar with icons for Data, Explore, Boards, Tasks (which is selected and highlighted with a blue border), and Notifications. The main area is titled "Tasks". At the top right are buttons for "What's New" and "Upgrade Now". Below that is a search bar with placeholder text "Filter tasks..." and a sorting dropdown set to "Sort by Name (A → Z)". There is also a "Show Inactive" toggle switch which is turned on (blue) and a "Create Task" button with a plus sign.

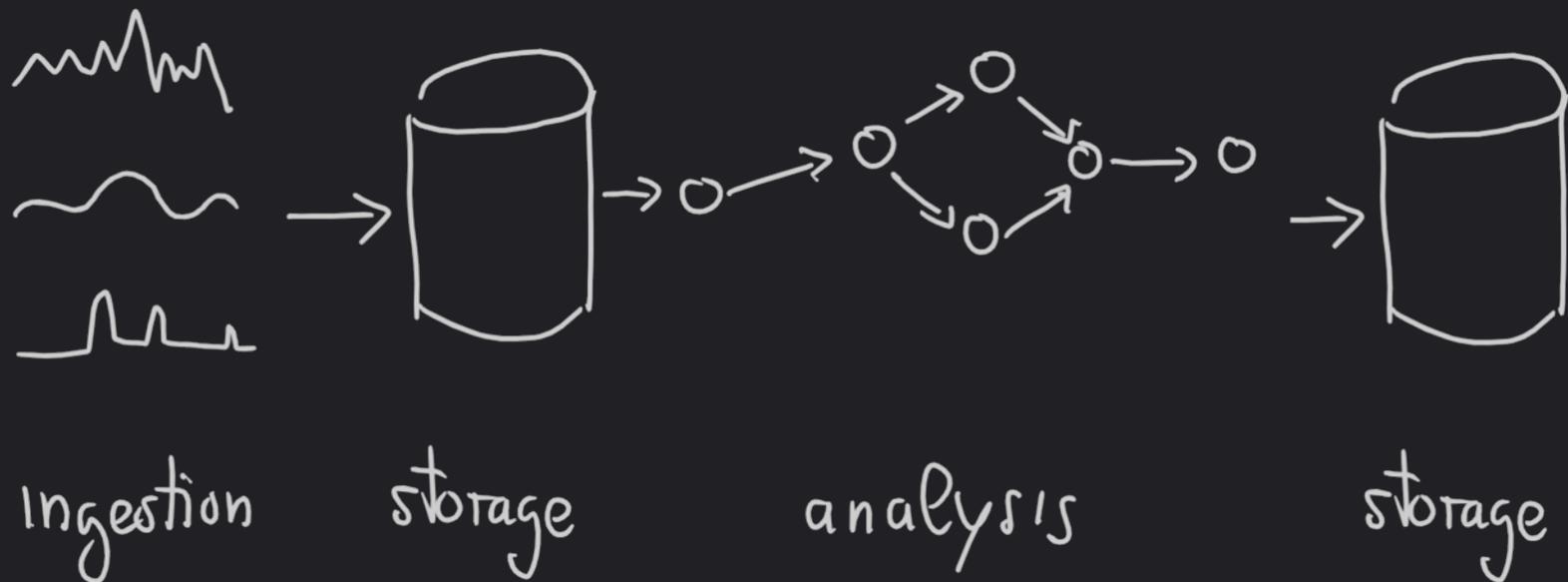
Two tasks are listed:

- Record the temperature dispersion in the base-cocking area**  
Status: Active | Last completed at 2020-06-08T15:01:00Z | Scheduled to run every 1m  
Buttons:  (green checkmark), Add a label
- Record the temperature dispersion in the base-cocking area**  
Status: Active | Last completed at 2020-06-08T15:01:00Z | Scheduled to run every 1m  
Buttons:  (green checkmark), Add a label

# Recall the Data Lifecycle of this morning



**Tasks continuously write back to the storage the results of the analysis**



# Writing into a bucket using `to()`

- Syntax

`to(bucket: <<name>>, org:<<organization>>)`

- Example

```
from(bucket:"foo")  
|> ...  
|> to(bucket: "bar", org:"some@quantiaconsulting.com")
```

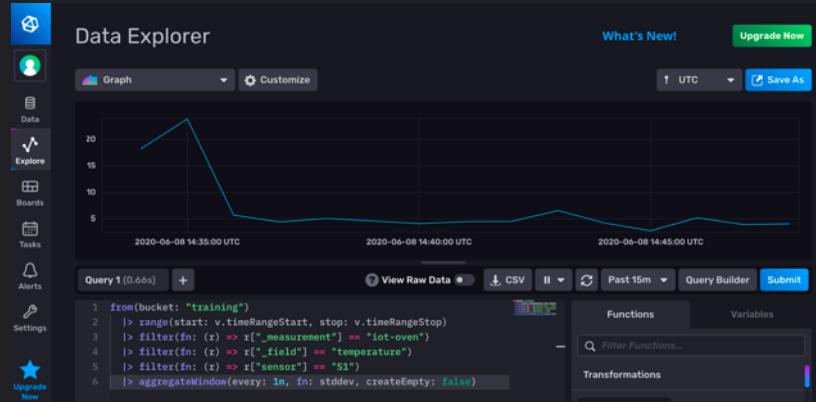
# Tasks are Written in the Flux Language

- No need to learn a separate language to write Tasks
- No need to use separate tools for debugging Tasks
- Tasks define all options within the script for portability
- Options include
  - Name
  - Run Interval
    - every
    - CRON syntax
- Tasks are self contained and can be imported / exported

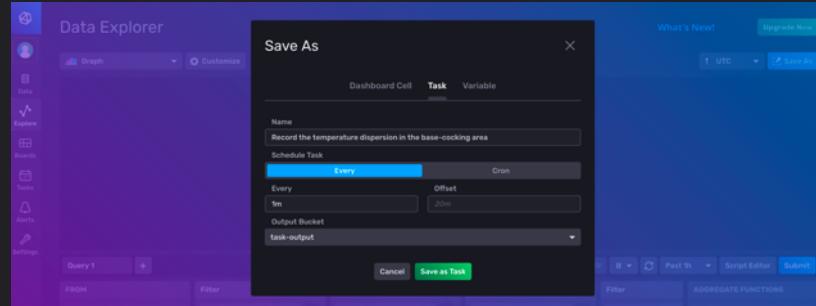
```
option task = {  
    name: "CPU User Usage Total 1h",  
    every: 1h,  
}
```

# Best practice

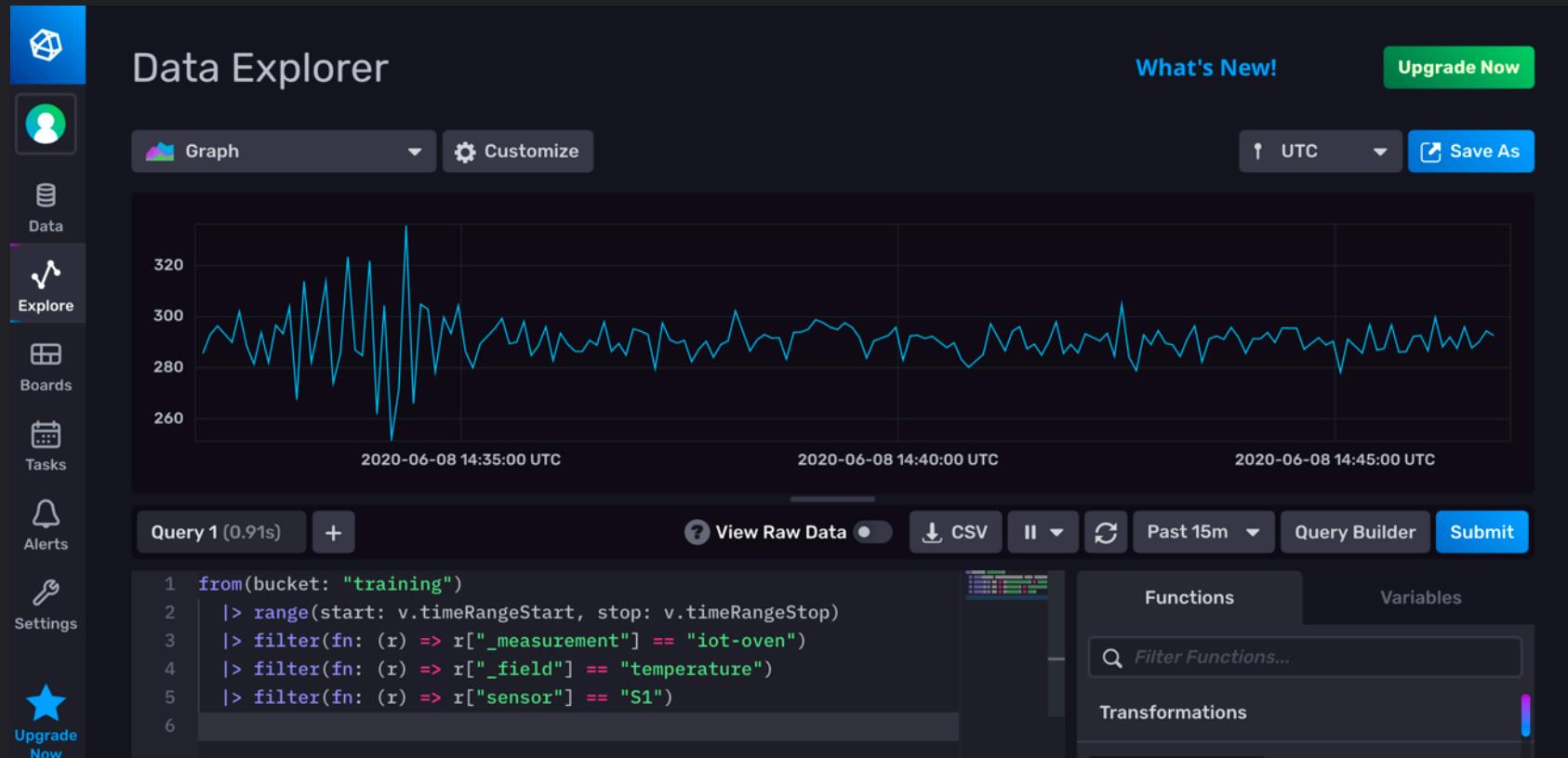
- Prepare the query in the Data Explorer



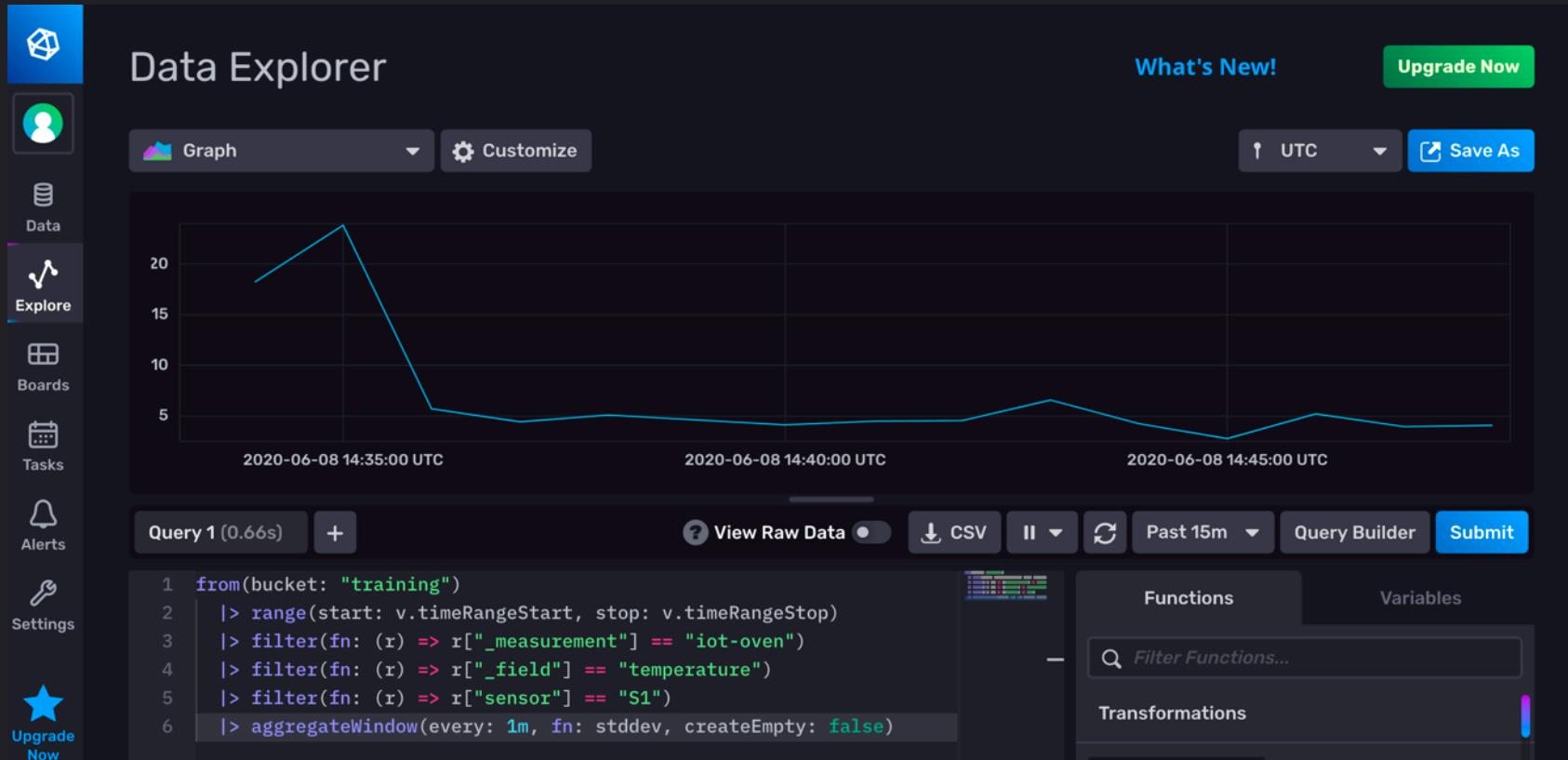
- Save it as a Task



# Practical example: record the temperature dispersion



# Practical example: record the temperature dispersion



# Practical example: record the temperature dispersion

The screenshot shows the InfluxDB Data Explorer interface. On the left, there is a sidebar with icons for Home, Data, Explore, Boards, Tasks, Alerts, and Settings. The main area is titled "Data Explorer" and contains a "Graph" dropdown and a "Customize" button. Below these are sections for "FROM", "measurement", "field", "1", "sensor", "1", and "host". A search bar at the bottom says "Search for a bucket". A "Filter" button is also present.

A modal dialog box titled "Save As" is open in the center. It has tabs for "Dashboard Cell", "Task" (which is selected), and "Variable".

The "Name" field contains the value "Record the temperature dispersion in the base-cooking area".

The "Schedule Task" section includes a "Every" button (highlighted in blue) and a "Cron" button. Under "Every", the value "1m" is shown, and under "Offset", the value "20m" is shown.

The "Output Bucket" dropdown is set to "task-output".

At the bottom of the dialog are "Cancel" and "Save as Task" buttons.



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