# Visualizing Data
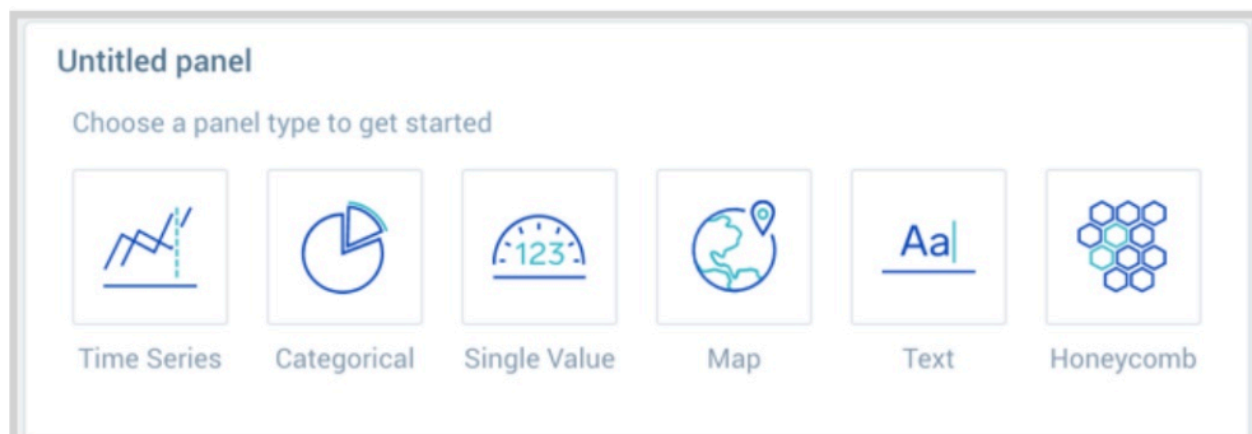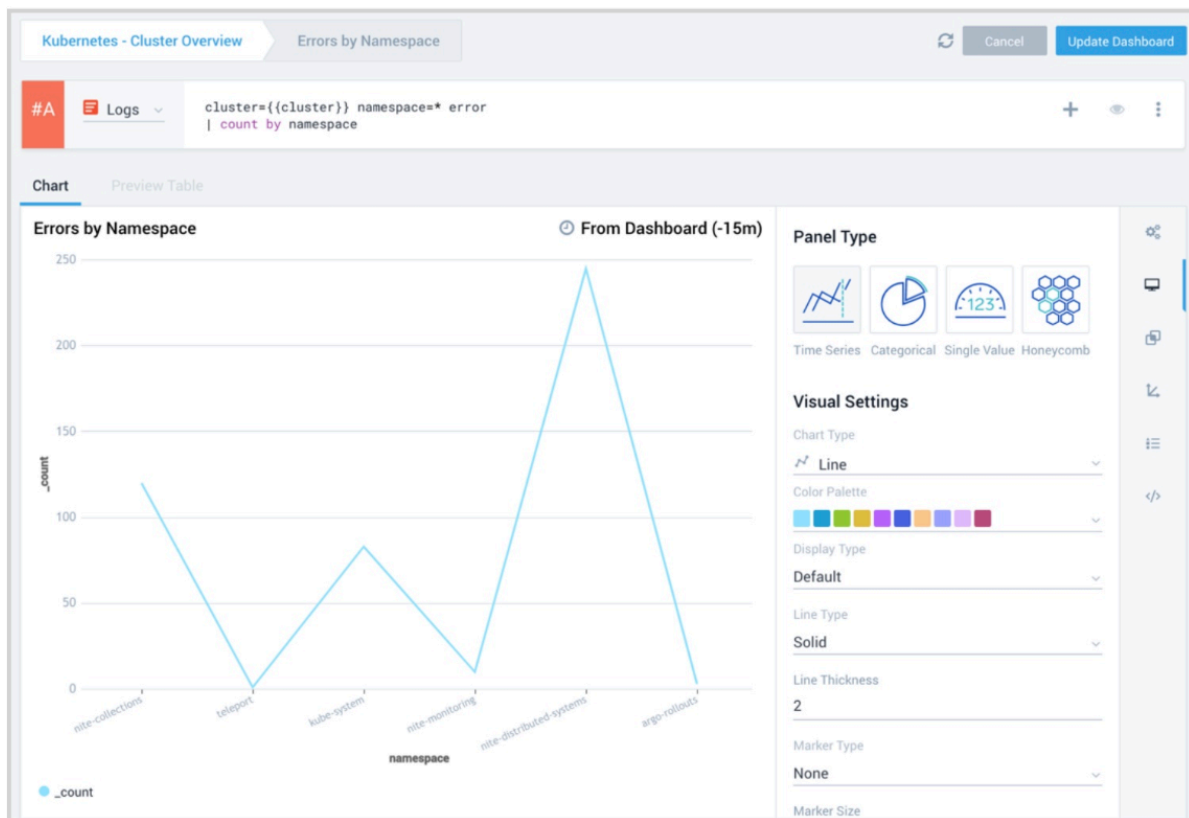
# Dashboard Overview

- Contain a collection of panels

# Panels and Charts

- The **data panels** provide a graphical representation in the form of a **chart** of your organization's data.

  - **Building blocks** used to create a dashboard

  - Each panel displays analytics for a **specific query**

- Ex) Chart displayed on a Time series panel (Showing number of errors by namespace)



# Dashboard Highlights

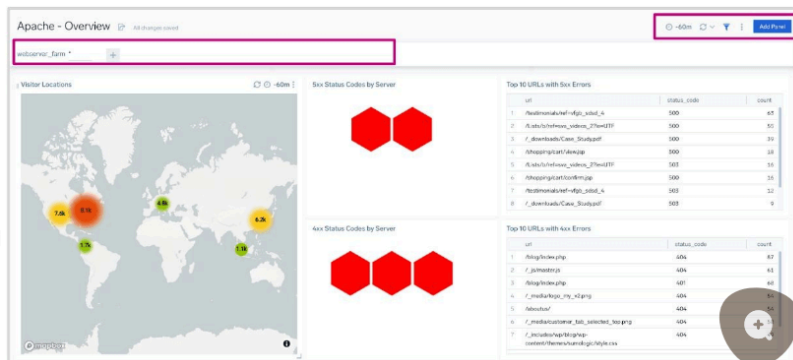- Select **Time range** to view data for the corresponding panel



- **Auto Refresh**: Ability to configure the refresh interval rate



- Ability to add panels inline through **Add a Panel** button



- Each **Panel** processes results from a single search.
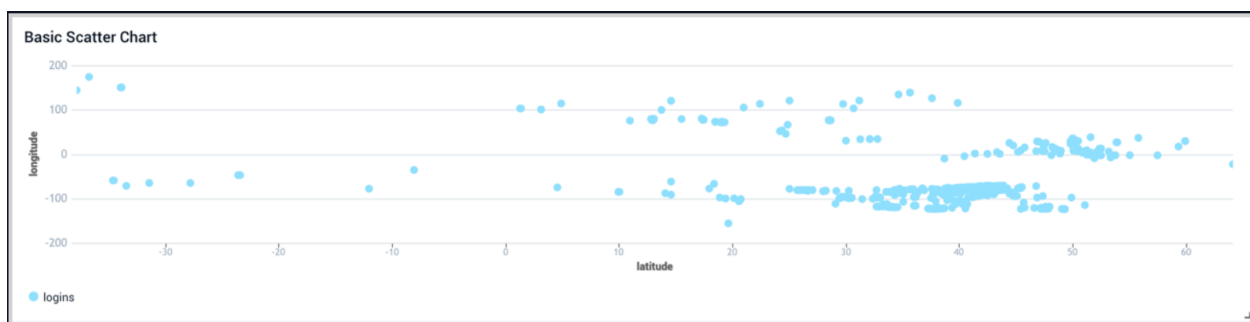- The variables work across both log and metric panels.



# Panel Types

## Time Series Panel

- Provide information on a **series of data** points **ordered in time**
- A sequence taken at successive equally spaced points in time
  - CPU
  - Memory
  - Disk usage
- Goal is usually to make a forecast for the future
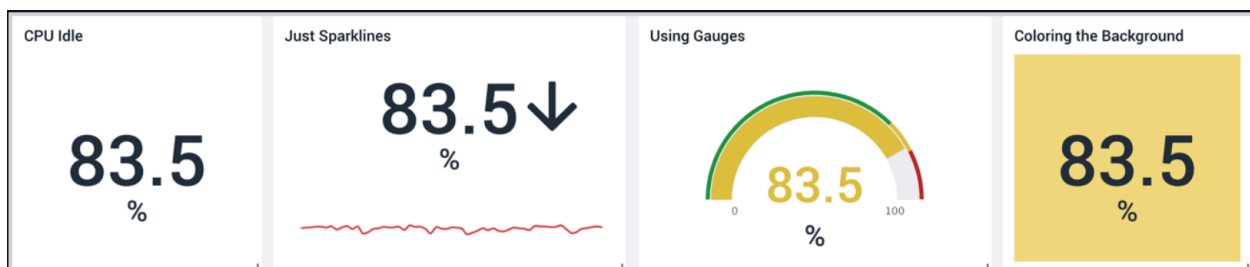
## Categorial Panel



- Provide information on the **number of occurrences** (*frequency*) of **distinct values**.

- Best used to understand the **distribution** of data by *categories*.

## What is the difference between a categorical and time series panel?
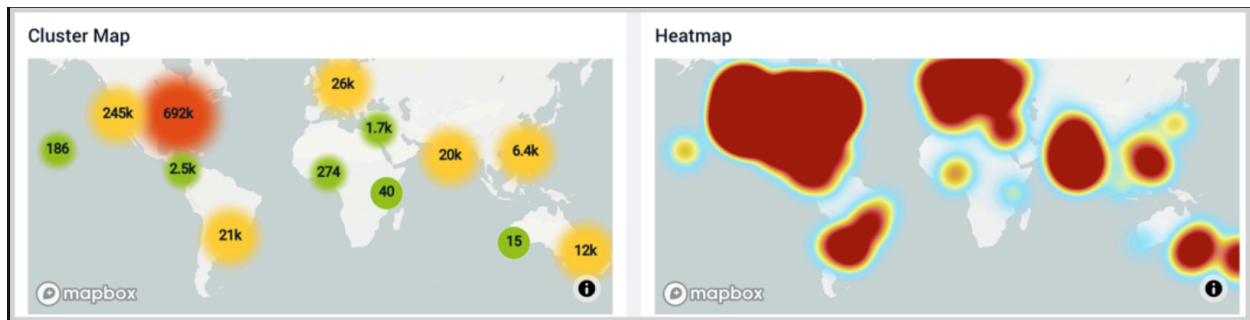
- The **categorical** panel type contains charts that graph data **across categories**
    - Bar charts over categories
    - Column charts over categories
    - Pie Charts
    - Tables over categories
    - Bubble Charts
    - Scatter Charts
- The **time series** panel type is designed to graph data **over time**
    - Area
    - Bar
    - Column
    - Line
    - Table

## Single Value Panel



- Great at providing high level overviews
- Can provide at-a-glance information to help decide where to inspect and troubleshoot further
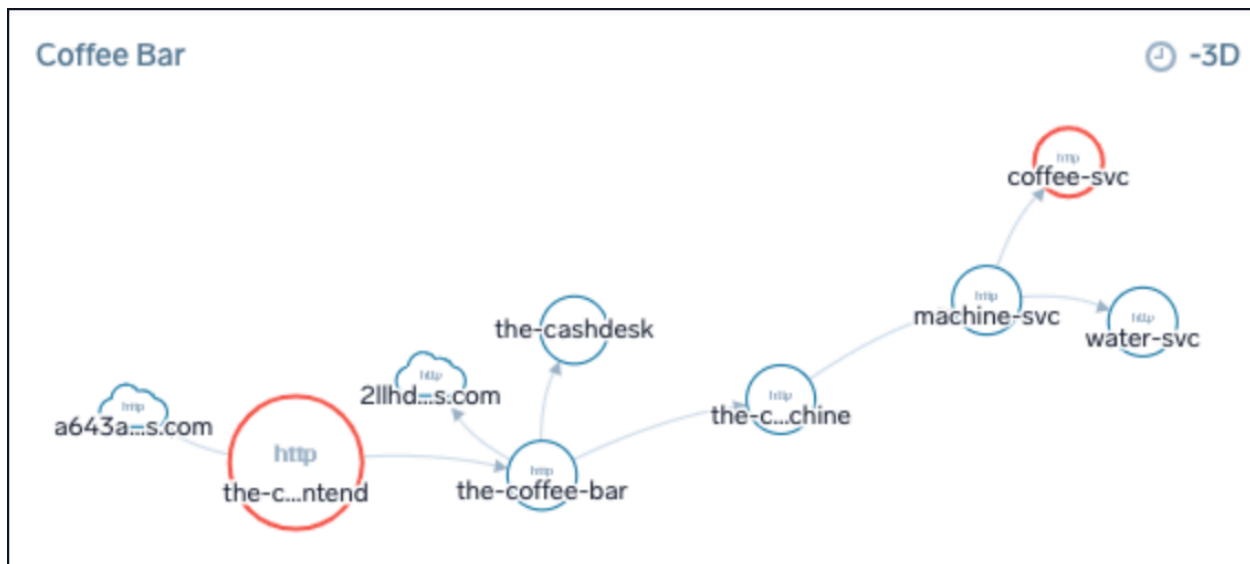
## Map Panel



- Identify where requests are coming from

## Text Panel

- Clarify what you are showing on dashboards or act as a note to your viewer
- Provide the flexibility to display descriptive text in or above other panels

## Service Map Panel



- Display high-level views of your application environment
- Giving you a greater insight into your application architecture and dependencies between monitored microservices

## Trace List Panel

- Captures and tracks **distributed business workflows**, by enriching and analyzing traces, logs, and metrics in real-time with automated generated application topology