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What’s new in Grafana v6.6

For all details, read the full CHANGELOG.md.

Highlights

Grafana 6.6 comes with a lot of new features and enhancements:

- **[Panels:** New stat panel]({{< relref “#new-stat-panel” >}})
- **[Panels:** Auto min/max for Bar Gauge/Gauge/Stat]({{< relref “#auto-min-max” >}})
- **[Panels:** News panel]({{< relref “#news-panel” >}})
- **[Panels:** Custom data units]({{< relref “#custom-data-units” >}})
- **[Panels:** Bar Gauge unfilled option]({{< relref “#bar-gauge-unfilled-option” >}})
- **[TimePicker:** New design & features]({{< relref “#new-time-picker” >}})
- **[Alerting enhancements]**({{< relref “#alerting-enhancements” >}})
- **[Explore:** Added log message line wrapping options for logs]({{< relref “#explore-logs-panel-log-message-line-wrapping-options” >}})
- **[Explore:** Column with unique log labels]({{< relref “#explore-logs-panel-column-with-unique-log-labels” >}})
- **[Explore:** Context tooltip]({{< relref “#explore-context-tooltip” >}})
- **[Explore:** Added ability to specify step with Prometheus queries
- **[Graphite:** Added MetricTank dashboard to Graphite datasource
- **[Loki:** Support for template variable queries
- **[Postgres/MySQL/MSSQL:** Added support for region annotations
- **[Security:** Added disabled option for cookie sameSite attribute]({{< relref “#cookie-management-modifications” >}})
- **[TablePanel, GraphPanel:** Exclude hidden columns from CSV
- **[Enterprise:** White labeling]({{< relref “#enterprise-white-labeling” >}})
- **[Enterprise:** APT and YUM repositories]({{< relref “#enterprise-apt-and-yum-repositories” >}})
- **[Stackdriver:** Meta labels]({{< relref “#stackdriver-meta-labels” >}})
- **[CloudWatch:** Calculate period based on time range]({{< relref “#cloudwatch-calculate-period-based-on-time-range” >}})
- **[CloudWatch:** Display partial result in graph when max DP/call limit is reached]({{< relref “#cloudwatch-display-partial-result-in-graph-when-max-data-points-per-call-limit-is-reached” >}})

New stat panel

```
{{< figure src="/static/img/docs/v66/stat_panel_dark2.png" max-width="1024px" caption="Stat panel" >}}
```

This release adds a new panel named **Stat**. This panel is designed to replace the current **Singlestat** as the primary way to show big single number panels along with a sparkline. This panel is of course building on our new panel infrastructure and option design. So, you can use the new threshold UI and data links. It also supports the same repeating feature as the Gauge and Bar Gauge panels, meaning it will repeat a separate visualization for every series or row in the query result.

Key features:

- Automatic font size handling
- Automatic layout handling based on panel size
- Colors based on thresholds that adapt to light or dark theme
- Data links support
- Repeats horizontally or vertically for every series, row, or column

Here is how it looks in light theme:

```
{{< figure src="/static/img/docs/v66/stat_panel_light.png" max-width="1024px" caption="Stat panel" >}}
```

Auto min-max

For the panels Gauge, Bar Gauge, and Stat, you can now leave the min and max settings empty. Grafana will, in that case, calculate the min and max based on all the data.

News panel

This panel shows RSS feeds as news items in the default home dashboard for v6.6. Add it to your custom home dashboards to keep up-to-date with Grafana news, or switch the default RSS feed to one of your choice.

```
{{< figure src="/static/img/docs/v66/news_panel.png" max-width="600px" caption="News panel" >}}
```

Custom data units

A top feature request for years is now finally here. All panels now support custom units. Type any text in the unit picker and select the **Custom: <your unit>** option. By default, the text will be used as a suffix unit. If you want a custom prefix, then type **prefix: <your unit>** to make the custom unit appear before the value. If you want a custom SI unit (with auto SI suffixes) specify **si:Ups**. A value like 1000 will be rendered as **1 kUps**.

```
{{< figure src="/static/img/docs/v66/custom_unit_burger1.png" max-width="600px" caption="Custom unit" >}}
```

You can also paste a native emoji in the unit picker and pick it as a custom unit:

```
{{< figure src="/static/img/docs/v66/custom_unit_burger2.png" max-width="600px" caption="Custom unit emoji" >}}
```

Bar Gauge unfilled option

The Bar Gauge visualization has a new display option: **Unfilled**. This new option is enabled by default, so it will change how this visualization is displayed on old dashboards. If you prefer the old default – in which an unfilled area is not shown, and the value follows directly after – you have to update the visualization settings.

```
{{< figure src="/static/img/docs/v66/bar_gauge_unfilled.png" max-width="900px" caption="Bar gauge unfilled" >}}
```

New time picker

The time picker has gotten a major design update. Key changes:

- Quickly access the absolute from and to input fields without an extra click.
- Calendar automatically shows when from or to inputs have focus.
- A single calendar view can be used to select and show the from and to date.
- You can now select recent absolute ranges.

```
{{< figure src="/static/img/docs/v66/time_picker_update.png" max-width="700px" caption="New time picker" >}}
```

Alerting enhancements

- We have introduced a new configuration for enforcing a minimal interval between evaluations to reduce load on the backend.
- The email notifier can now optionally send a single email to all recipients.
- OpsGenie, PagerDuty, Threema, and Google Chat notifiers have been updated to send additional information.

Cookie management modifications

In order to align with a change in Chrome 80, a breaking change has been introduced to Grafana's `[cookie_samesite setting]` (

```
{{< relref "../administration/configuration.md#cookie-samesite" >}}
```

). Grafana now properly renders cookies with the `SameSite=None` attribute when this setting is `none`. The previous behavior of `none` was to omit the `SameSite` attribute from cookies. Grafana will use the previous behavior when `cookie_samesite` is set to `disabled`.

Read more about this in the [upgrade notes]({{< relref "../installation/upgrading/#important-changes-regarding-samesite-cookie-attribute" >}}).

Explore/Logs Panel: Log message line wrapping options

We introduced the wrap-lines option for logs because as for some of our users feel it's more efficient to see one line per log message. The wrapped-line option is set as a default; the unwrapped setting results in horizontal scrolling.

```
{{< figure src="/static/img/docs/v66/explore_wrap_lines.gif" max-width="600px" caption="Log message line wrapping" >}}
```

Explore/Logs Panel: Column with unique log labels

After feedback from our community, we have decided to reintroduce a labels column. However, for better readability and usefulness, we have transformed it into a Unique labels column which includes only non-common labels. All common labels are displayed above.

```
{{< figure src="/static/img/docs/v66/explore_labels_column.png" max-width="600px" caption="Unique log labels column" >}}
```

Explore: Context tooltip

Isolating a series from a big set of lines in a graph is important for drill-downs. That's why we have implemented the context tooltip in Explore, which allows you to copy data and labels from it to further refine the query.

```
{{< figure src="/static/img/docs/v66/explore_context_tooltip.png" max-width="600px" caption="Explore context tooltip" >}}
```

Enterprise: White labeling

This release adds new white labeling options to the grafana.ini file (can also be set via ENV variables).

```
[white_labeling]
# Set to complete URL to override login logo
login_logo = https://my.logo.url/images/logo.png

# Set to complete css background expression to override login background
login_background = url(http://www.bhmpics.com/wallpapers/starfield-1920x1080.jpg)

# Set to complete URL to override menu logo
menu_logo = https://my.logo.url/images/logo_icon.png

# Set to complete URL to override fav icon (icon shown in browser tab)
fav_icon = https://my.logo.url/images/logo_icon_32px.png
```

```
# Set to complete URL to override apple/ios icon
apple_touch_icon = https://my.logo.url/images/logo_icon_32px.png

# Below is an example for how to replace the default footer & help links with 2 custom links
footer_links = support guides
footer_links_support_text = Support
footer_links_support_url = http://your.support.site
footer_links_guides_text = Guides
footer_links_guides_url = http://your.guides.site
```

Customize the login page, side menu bar, and footer links.

```
{{< figure src="/static/img/docs/v66/whitelabeling_1.png" max-width="700px"
caption="White labeling example" >}}
```

Enterprise APT and YUM repositories

Now you can install the enterprise edition from the APT and YUM repository. The following table shows the APT repository for each Grafana version (for instructions read the [installation notes]({{< relref "../installation/debian/#install-from-apt-repository" >}})) :

Grafana Version	Package	Repository
Grafana OSS	grafana	https://packages.grafana.com/oss/deb/stable/main
Grafana OSS (Beta)	grafana	https://packages.grafana.com/oss/deb/beta/main
Grafana Enterprise	grafana-enterprise	https://packages.grafana.com/enterprise/deb/stable/main
Grafana Enterprise (Beta)	grafana-enterprise	https://packages.grafana.com/enterprise/deb/beta/main

The following table shows the YUM repositories for each Grafana version (for instructions read the [installation notes]({{< relref "../installation/rpm/#install-from-yum-repository" >}})) :

Grafana Version	Package	Repository
Grafana OSS	grafana	https://packages.grafana.com/oss/rpm
Grafana OSS (Beta)	grafana	https://packages.grafana.com/oss/rpm-beta
Grafana Enterprise	grafana-enterprise	https://packages.grafana.com/enterprise/rpm

Grafana Version	Package	Repository
Grafana Enterprise (Beta)	grafana-enterprise	https://packages.grafana.com/enterprise/rpm-beta

We recommend all users to install the Enterprise Edition of Grafana, which can be seamlessly upgraded with a Grafana Enterprise subscription.

Stackdriver: Meta labels

From now on it will be possible to utilize meta data label in “group by”, filters and in the alias field. Unfortunately, there’s no API to retrieve all the labels, but the group by field dropdown comes with a pre-defined list of common system labels. User labels cannot be pre-defined, but it’s possible to enter them manually in the group by field. If a meta data label, user label or system label, is included in the group by segment, it will be possible to create filters based on it and to expand its value on the alias field.

```
{{< figure src="/static/img/docs/v66/metadatalabels.gif" max-width="800px"
caption="Stackdriver meta labels" >}}
```

CloudWatch: Calculate period based on time range

When the period field was left blank in Grafana 6.5, it would default to 60 seconds. In case users issued queries with a large time span, there was a high risk that they would reach the 100,800 data points per request limit in the Get Metric Data (GMD) API. When the period field is left blank in Grafana 6.6, the period will be calculated automatically based on the time range. The formula that is used is `time range in seconds / 2000`, and then we snap to next higher value in an array of pre-defined periods [60, 300, 900, 3600, 21600, 86400]. This will reduce the risk for receiving a `Too many datapoints requested` error in the panel.

CloudWatch: Display partial result in graph when max data points per call limit is reached

In case all queries in a GMD call are metric stat (not using math expressions), Grafana will paginate the response until all data points are received. But pagination is not supported in case a math expression is being used, so in that case it’s not possible to receive more than 100,800 data points. Previously when that limit was reached, we only displayed an error message. In Grafana 6.6, we also display the 100,800 data points that were received in the graph.

Upgrading

See [upgrade notes]({{< relref “../installation/upgrading/#upgrading-to-v6-6” >}}).

Changelog

Check out CHANGELOG.md for a complete list of new features, changes, and bug fixes.

Notice about upcoming changes in backendSrv for plugin authors

In our mission to migrate away from AngularJS to React we have removed all AngularJS dependencies in the core data retrieval service **backendSrv**. This change is already in master and will be introduced in the next **major** Grafana release.

Removing the AngularJS dependencies in **backendSrv** has the unfortunate side effect of AngularJS digest no longer being triggered for any request made with **backendSrv**. Because of this, external plugins using **backendSrv** directly may suffer from strange behaviour in the UI.

To remedy this issue as a plugin author you need to trigger the digest after a direct call to **backendSrv**.

Example:

```
backendSrv.get('http://your.url/api').then(result => {  
  this.result = result;  
  this.$scope.$digest();  
});
```