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## Release notes for Grafana 7.4.0

### Features and enhancements

- **CDN:** Adds support for serving assets over a CDN. [#30691](#), [@torkelo](#)
- **DashboardLinks:** Support variable expression in tooltip - Issue #30409. [#30569](#), [@huynhsamha](#)
- **Explore:** Set Explore's GraphNG to be connected. [#30707](#), [@ivanahuckova](#)
- **InfluxDB:** Add http configuration when selecting InfluxDB v2 flavor. [#30827](#), [@aocenas](#)
- **InfluxDB:** Show all datapoints for dynamically windowed flux query. [#30688](#), [@davkal](#)
- **Loki:** Improve live tailing errors. [#30517](#), [@ivanahuckova](#)

### Bug fixes

- **Admin:** Fixes so form values are filled in from backend. [#30544](#), [@hugohaggmark](#)
- **Admin:** Fixes so whole org drop-down is visible when adding users to org. [#30481](#), [@hugohaggmark](#)
- **Alerting:** Hides threshold handle for percentual thresholds. [#30431](#), [@hugohaggmark](#)
- **CloudWatch:** Prevent field config from being overwritten. [#30437](#), [@sunker](#)
- **Decimals:** Big Improvements to auto decimals and fixes to auto decimals bug found in 7.4-beta1. [#30519](#), [@torkelo](#)
- **Explore:** Fix jumpy live tailing. [#30650](#), [@ivanahuckova](#)
- **Explore:** Fix loading visualisation on the top of the new time series panel. [#30553](#), [@ivanahuckova](#)
- **Footer:** Fixes layout issue in footer. [#30443](#), [@torkelo](#)
- **Graph:** Fixes so only users with correct permissions can add annotations. [#30419](#), [@hugohaggmark](#)
- **Mobile:** Fixes issue scrolling on mobile in chrome. [#30746](#), [@torkelo](#)
- **PanelEdit:** Trigger refresh when changing data source. [#30744](#), [@torkelo](#)
- **Panels:** Fixes so panels are refreshed when scrolling past them fast. [#30784](#), [@hugohaggmark](#)
- **Prometheus:** Fix show query instead of Value if no **name** and metric. [#30511](#), [@zoltanbedi](#)
- **TimeSeriesPanel:** Fixes default value for Gradient mode. [#30484](#), [@torkelo](#)
- **Variables:** Clears drop-down state when leaving dashboard. [#30810](#), [@hugohaggmark](#)
- **Variables:** Fixes display value when using capture groups in regex. [#30636](#), [@hugohaggmark](#)
- **Variables:** Fixes so queries work for numbers values too. [#30602](#), [@hugohaggmark](#)
- **Variables:** Fixes so text format will show All instead of custom all value. [#30730](#), [@hugohaggmark](#)

### Plugin development fixes & changes

- **Plugins:** Fix failing plugin builds because of wrong internal import. [#30439](#), [@aocenas](#)

## 7.4.0-beta1 (2021-01-20)

### Features and enhancements

- **API:** Add ID to snapshot API responses. [#29600](#), [@AgnesToulet](#)
- **AlertListPanel:** Add options to sort by Time(asc) and Time(desc). [#29764](#), [@dboslee](#)
- **AlertListPanel:** Changed alert url to to go the panel view instead of panel edit. [#29060](#), [@zakiharis](#)
- **Alerting:** Add support for Senu Go notification channel. [#28012](#), [@nixwiz](#)
- **Alerting:** Add support for alert notification query label interpolation. [#29908](#), [@wbrowne](#)
- **Annotations:** Remove annotation\_tag entries as part of annotations cleanup. [#29534](#), [@dafydd-t](#)
- **Azure Monitor:** Add Microsoft.Network/natGateways. [#29479](#), [@JoeyLemur](#)
- **Backend plugins:** Support Forward OAuth Identity for backend data source plugins. [#27055](#), [@billoley](#)
- **Cloud Monitoring:** MQL support. [#26551](#), [@mtanda](#)

- **CloudWatch:** Add 'EventBusName' dimension to CloudWatch 'AWS/Events' namespace. [#28402](#), [@tomdaly](#).
- **CloudWatch:** Add support for AWS DirectConnect ConnectionErrorCount metric. [#29583](#), [@haeringer](#)
- **CloudWatch:** Add support for AWS/ClientVPN metrics and dimensions. [#29055](#), [@marefr](#)
- **CloudWatch:** Added HTTP API Gateway specific metrics and dimensions. [#28780](#), [@karlatkinson](#)
- **Configuration:** Add an option to hide certain users in the UI. [#28942](#), [@AgnesToulet](#)
- **Currency:** Adds Indonesian IDR currency. [#28363](#), [@hiddenrebel](#)
- **Dashboards:** Delete related data (permissions, stars, tags, versions, annotations) when deleting a dashboard or a folder. [#28826](#), [@AgnesToulet](#)
- **Dependencies:** Update angularjs to 1.8.2. [#28736](#), [@torkelo](#)
- **Docker:** Use root group in the custom Dockerfile. [#28639](#), [@chugunov](#)
- **Elasticsearch:** Add Moving Function Pipeline Aggregation. [#28131](#), [@simianhacker](#)
- **Elasticsearch:** Add Support for Serial Differencing Pipeline Aggregation. [#28618](#), [@simianhacker](#)
- **Elasticsearch:** Deprecate browser access mode. [#29649](#), [@Elfo404](#)
- **Elasticsearch:** Interpolate variables in Filters Bucket Aggregation. [#28969](#), [@Elfo404](#)
- **Elasticsearch:** Support extended stats and percentiles in terms order by. [#28910](#), [@simianhacker](#)
- **Elasticsearch:** View in context feature for logs. [#28764](#), [@simianhacker](#)
- **Explore/Logs:** Alphabetically sort unique labels, labels and parsed fields. [#29030](#), [@ivanahuckova](#)
- **Explore/Logs:** Update Parsed fields to Detected fields. [#28881](#), [@ivanahuckova](#)
- **Field overrides:** Added matcher to match all fields returned by a specific query. [#28872](#), [@mckn](#)
- **Graph:** Add support for spline interpolation (smoothing) added in new time series panel. [#4303](#)
- **Instrumentation:** Add histograms for database queries. [#29662](#), [@dafydd-t](#)
- **Jaeger:** Remove browser access mode. [#30349](#), [@zoltanbedi](#)
- **LogsPanel:** Don't show scroll bars when not needed. [#28972](#), [@aocenas](#)
- **Loki:** Add query type and line limit to query editor in dashboard. [#29356](#), [@ivanahuckova](#)
- **Loki:** Add query type selector to query editor in Explore. [#28817](#), [@ivanahuckova](#)
- **Loki:** Retry web socket connection when connection is closed abnormally. [#29438](#), [@ivanahuckova](#)
- **MS SQL:** Integrated security. [#30369](#), [@daniellee](#)
- **Middleware:** Add CSP support. [#29740](#), [@aknuds1](#)
- **OAuth:** Configurable user name attribute. [#28286](#), [@alexanderzobnin](#)
- **PanelEditor:** Render panel field config categories as separate option group sections. [#30301](#), [@dprokop](#)
- **Postgres:** SSL certification. [#30352](#), [@ying-jeanne](#)
- **Prometheus:** Add support for Exemplars. [#28057](#), [@zoltanbedi](#)
- **Prometheus:** Improve autocomplete performance and remove disabling of dynamic label lookup. [#30199](#), [@ivanahuckova](#)
- **Prometheus:** Update default query type option to "Both" in Explore query editor. [#28935](#), [@ivanahuckova](#)
- **Prometheus:** Use customQueryParameters for all queries. [#28949](#), [@alexbumbacea](#)
- **Security:** Prefer server cipher suites for http2. [#29379](#), [@bergquist](#)
- **Security:** Remove insecure cipher suit as default option. [#29378](#), [@bergquist](#)
- **StatPanels:** Add new calculation option for percentage difference. [#26369](#), [@jedstar](#)
- **StatPanels:** Change default stats option to "Last (not null)". [#28617](#), [@ryantxu](#)
- **Table:** migrate old-table config to new table config. [#30142](#), [@jackw](#)
- **Templating:** Custom variable edit UI, change options input into textarea. [#28322](#), [@darrylsepeda](#)
- **TimeSeriesPanel:** The new graph panel now supports y-axis value mapping. [#30272](#), [@torkelo](#)
- **Tracing:** Tag spans with user login and datasource name instead of id. [#29183](#), [@bergquist](#)
- **Transformations:** Add "Rename By Regex" transformer. [#29281](#), [@simianhacker](#)
- **Transformations:** Added new transform for excluding and including rows based on their values. [#26884](#), [@Totalus](#)
- **Transforms:** Add sort by transformer. [#30370](#), [@ryantxu](#)
- **Variables:** Add deprecation warning for value group tags. [#30160](#), [@torkelo](#)
- **Variables:** Added \_\_user.email to global variable. [#28853](#), [@mckn](#)

- **Variables:** Adds description field. [#29332](#), [@hugohaggmark](#)
- **Variables:** Adds variables inspection. [#25214](#), [@hugohaggmark](#)
- **Variables:** New Variables are stored immediately. [#29178](#), [@hugohaggmark](#)
- **Zipkin:** Remove browser access mode. [#30360](#), [@zoltanbedi](#)

## Bug fixes

- **API:** Query database from /api/health endpoint. [#28349](#), [@ceh](#)
- **Alerting:** Return proper status code when trying to create alert notification channel with duplicate name or uid. [#28043](#), [@jglick48](#)
- **Auth:** Fix default maximum lifetime an authenticated user can be logged in. [#30030](#), [@papagian](#)
- **Backend:** Fix IPv6 address parsing erroneous. [#28585](#), [@taciomcosta](#)
- **CloudWatch:** Make sure stats grow horizontally and not vertically in the Query Editor. [#30106](#), [@sunker](#)
- **Cloudwatch:** Fix issue with field calculation transform not working properly with Cloudwatch data. [#28761](#), [@torkelo](#)
- **Dashboards:** Hide playlist edit functionality from viewers and snapshots link from unauthenticated users. [#28992](#), [@jackw](#)
- **Data source proxy:** Convert 401 HTTP status code from data source to 400. [#28962](#), [@aknuds1](#)
- **Decimals:** Improving auto decimals logic for high numbers and scaled units. [#30262](#), [@torkelo](#)
- **Elasticsearch:** Fix date histogram auto interval handling for alert queries. [#30049](#), [@simianhacker](#)
- **Elasticsearch:** Fix index pattern not working with multiple base sections. [#28348](#), [@tomdaly](#)
- **Explore:** Clear errors after running a new query. [#30367](#), [@ivanahuckova](#)
- **Graph:** Fixes stacking issues like floating bars when data is not aligned. [#29051](#), [@torkelo](#)
- **Graph:** Staircase and null value=null calculates auto Y-Min incorrectly (fixed in new Time series panel). [#12995](#)
- **Graph:** Staircase mode, do now draw line segment from zero when drawing null values as null (Fixed in new Time series panel). [#17838](#)
- **Image uploader:** Fix uploading of images to GCS. [#26493](#), [@gastonqiu](#)
- **Influx:** Fixes issue with many queries being issued as you type in the variable query field. [#29968](#), [@dprokop](#)
- **Logs Panel:** Fix inconsistent highlighting. [#28971](#), [@ivanahuckova](#)
- **Logs Panel:** Fixes problem dragging scrollbar inside logs panel. [#28974](#), [@aocenas](#)
- **Loki:** Fix hiding of series in table if labels have number values. [#30185](#), [@ivanahuckova](#)
- **Loki:** Lower min step to 1ms. [#30135](#), [@ivanahuckova](#)
- **Loki:** Remove showing of unique labels with the empty string value. [#30363](#), [@ivanahuckova](#)
- **Loki:** Timeseries should not produce 0-values for missing data. [#30116](#), [@davkal](#)
- **Plugins:** Fix panic when using complex dynamic URLs in app plugin routes. [#27977](#), [@cinaglia](#)
- **Prometheus:** Fix link to Prometheus graph in dashboard. [#29543](#), [@ivanahuckova](#)
- **Provisioning:** Build paths in an os independent way. [#29143](#), [@amattheisen](#)
- **Provisioning:** Fixed problem with getting started panel being added to custom home dashboard. [#28750](#), [@torkelo](#)
- **SAML:** Fixes bug in processing SAML response with empty element by updating saml library (Enterprise). [#29991](#), [@alexanderzobnin](#)
- **SQL:** Define primary key for tables without it. [#22255](#), [@azhiltsov](#)
- **Tracing:** Fix issue showing more than 300 spans. [#29377](#), [@zoltanbedi](#)
- **Units:** Changes FLOP/s to FLOPS and some other rates per second units get /s suffix. [#28825](#), [@Berbe](#)
- **Variables:** Fixes Constant variable persistence confusion. [#29407](#), [@hugohaggmark](#)
- **Variables:** Fixes Textbox current value persistence. [#29481](#), [@hugohaggmark](#)
- **Variables:** Fixes loading with a custom all value in url. [#28958](#), [@hugohaggmark](#)
- **Variables:** Fixes so clicking on Selected in drop-down will exclude All value from selection. [#29844](#), [@hugohaggmark](#)

## Breaking changes

### Constant variables

In order to minimize the confusion with Constant variable usage, we've removed the ability to make Constant variables visible. This change will also migrate `all` existing `visible` Constant variables to Textbox variables because which we think this is a more appropriate type of variable for this use case. Issue [#29407](#)

### Plugin compatibility

We have upgraded AngularJS from version 1.6.6 to 1.8.2. Due to this upgrade some old angular plugins might stop working and will require a small update. This is due to the deprecation and removal of pre-assigned bindings. So if your custom angular controllers expect component bindings in the controller constructor you need to move this code to an `$onInit` function. For more details on how to migrate AngularJS code open the [migration guide](#) and search for **pre-assigning bindings**.

In order not to break all angular panel plugins and data sources we have some custom [angular inject behavior](#) that makes sure that bindings for these controllers are still set before constructor is called so many old angular panels and data source plugins will still work. Issue [#28736](#)

## Deprecations

### Query variable value group tags

This option to group query variable values into groups by tags has been an experimental feature since it was introduced. It was introduced to work around the lack of tags support in time series databases at the time. Now that tags (ie. labels) are the norm there is no longer any great need for this feature. This feature will be removed in Grafana v8 later this year. Issue [#30160](#)

## Plugin development fixes & changes

- **AngularPlugins:** Angular controller events emitter is now a separate emitter and not the same as PanelModel events emitter. [#30379](#), [@torkelo](#)
- **FieldConfig API:** Add ability to hide field option or disable it from the overrides. [#29879](#), [@dprokop](#)
- **Select:** Changes default menu placement for Select from auto to bottom. [#29837](#), [@hugohaggmark](#)
- **Collapse:** Allow component children to use height: 100% styling. [#29776](#), [@aocenas](#)
- **DataSourceWithBackend:** Throw error if health check fails in DataSourceWithBackend. [#29743](#), [@aocenas](#)
- **NodeGraph:** Add node graph visualization. [#29706](#), [@aocenas](#)
- **FieldColor:** Handling color changes when switching panel types. [#28875](#), [@dprokop](#)
- **CodeEditor:** Added support for javascript language. [#28818](#), [@ae3e](#)
- **grafana/toolkit:** Allow builds with lint warnings. [#28810](#), [@dprokop](#)
- **grafana/toolkit:** Drop console and debugger statements by default when building plugin. [#28776](#), [@dprokop](#)
- **Card:** Add new Card component. [#28216](#), [@Clarity-89](#)
- **FieldConfig:** Implementation slider editor (#27592). [#28007](#), [@isaozlerfm](#)
- **MutableDataFrame:** Remove unique field name constraint and values field index and unused/seldom used stuff. [#27573](#), [@torkelo](#)