Create data source-managed recording rules

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Recording rules allow you to periodically pre-compute frequently used or computationally expensive queries, saving the results as a new time series metric.

Alert rules and dashboards can then query the new metric resulting from the recording rule. This is faster than querying real-time data and can help to reduce system load.

Data source-managed recording rules can query Prometheus-based data sources like Mimir or Loki.

For more information on recording rules in Prometheus, refer to Defining recording rules in Prometheus.

Note that in data source-managed groups, the alert rules and recording rules within the same evaluation group are evaluated sequentially. This is useful to ensure that a recording rule is evaluated before any other alert rule queries the pre-computed metric.

Before you begin

- Verify that you have write permission to the Prometheus or Loki data source. Otherwise, you will not be able to create or update Grafana Mimir managed alerting rules.
- For Grafana Mimir and Loki data sources, enable the ruler API by configuring their respective services.

- **Loki** - The `local` rule storage type, default for the Loki data source, supports only viewing of rules. To edit rules, configure one of the other rule storage types.
- **Mimir** - use the `/prometheus` prefix. The Prometheus data source supports both Grafana Mimir and Prometheus, and Grafana expects that both the Query API and Ruler API are under the same URL. You cannot provide a separate URL for the Ruler API.

Add new recording rule

To create a new data source-managed recording rule:

1. Click **Alerts & IRM** -> **Alerting** -> **Alert rules**.
2. At the top of the Alert rules page, click **More** -> **New Data source recording rule**.

Enter recording rule name

The recording rule name must be a Prometheus metric name and contain no whitespace.

Define recording rule

Select your data source and enter a query. The queries used in data source-managed recording rules always run as instant queries.

Add namespace and group

1. From the **Namespace** dropdown, select an existing rule namespace or add a new one. Namespaces can contain one or more rule groups and only have an organizational purpose.
2. From the **Group** dropdown, select an existing group within the selected namespace or add a new one.
   Rules within a group are run sequentially at a regular interval, with the same evaluation time.
   Newly created rules are appended to the end of the group, and you can reorder them from the **Alert rules** page.

Add labels

Optionally, you can add custom labels to the resulting metric by selecting existing key-value pairs from the drop down or entering the new key or value.

Query the new metric in dashboards or alert rules

Click **Save rule** or **Save rule and exit** to save the rule.

Once saved, the new recording metric is available for use in dashboards and alert rules.

□□□ #2
□ □□□ □□□ 2026-10-31 15:39:33 UTC
□ □□□ □□□ 2026-10-31 15:39:35 UTC