+++ title = "Create Grafana Mimir or Loki managed alert rule" description = "Create Grafana Mimir or Loki managed alerting rule" keywords = ["grafana", "alerting", "guide", "rules", "create"] weight = 400 +++

Create a Grafana Mimir or Loki managed alerting rule

Grafana allows you to create alerting rules for an external Grafana Mimir or Loki instance.

Before you begin

- Verify that you have write permission to the Prometheus 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.

    - **Grafana Mimir** - use the legacy `/api/prom` prefix, not `/prometheus`. 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.

    Note: If you do not want to manage alerting rules for a particular Loki or Prometheus data source, go to its settings and clear the **Manage alerts via Alerting UI** checkbox.

Add a Grafana Mimir or Loki managed alerting rule

1. In the Grafana menu, click the **Alerting** (bell) icon to open the Alerting page listing existing alerts.
2. Click **New alert rule**.
3. In Step 1, add the rule name, type, and storage location.
    - In **Rule name**, add a descriptive name. This name is displayed in the alert rule list. It is also the `alertname` label for every alert instance that is created from this rule.
    - From the **Rule type** drop-down, select **Mimir / Loki managed alert**.
    - From the **Select data source** drop-down, select an external Prometheus, an external Loki, or a Grafana Cloud data source.

- From the **Namespace** drop-down, select an existing rule namespace. Otherwise, click **Add new** and enter a name to create a new one. Namespaces can contain one or more rule groups and only have an organizational purpose. For more information, see [Grafana Mimir or Loki rule groups and namespaces]({{< relref "./edit-mimir-loki-namespace-group.md" >}}).
- From the **Group** drop-down, select an existing group within the selected namespace. Otherwise, click **Add new** and enter a name to create a new one. Newly created rules are appended to the end of the group. Rules within a group are run sequentially at a regular interval, with the same evaluation time. {{< figure src="/static/img/docs/alerting/unified/rule-edit-mimir-alert-type-8-0.png" max-width="550px" caption="Alert details" >}}

4. In Step 2, add the query to evaluate.
   - Enter a PromQL or LogQL expression. The rule fires if the evaluation result has at least one series with a value that is greater than 0. An alert is created for each series. {{< figure src="/static/img/docs/alerting/unified/rule-edit-mimir-query-8-0.png" max-width="550px" caption="Alert details" >}}

5. In Step 3, add conditions.
   - In the **For** text box, specify the duration for which the condition must be true before an alert fires. If you specify `5m`, the condition must be true for 5 minutes before the alert fires. > **Note:** Once a condition is met, the alert goes into the `Pending` state. If the condition remains active for the duration specified, the alert transitions to the `Firing` state, else it reverts to the `Normal` state.

6. In Step 4, add additional metadata associated with the rule.
   - Add a description and summary to customize alert messages. Use the guidelines in [Annotations and labels for alerting]({{< relref "./alert-annotation-label.md" >}}).
   - Add Runbook URL, panel, dashboard, and alert IDs.
   - Add custom labels.

7. To evaluate the rule and see what alerts it would produce, click **Preview alerts**. It will display a list of alerts with state and value of for each one.

8. Click **Save** to save the rule or **Save and exit** to save the rule and go back to the Alerting page.