



链滴

about prometheus alerting

作者: [someone61489](#)

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来源网站: [链滴](#)

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<p> </p>

<h2 id="1-Alerting-with-Prometheus-is-separated-in-to-two-parts">1.Alerting with Prometheus is separated in to two parts</h2>

<h2 id="1-1Alerting-rules">1-1Alerting rules</h2>

Alerting rules is a file that formatted by yml,it's define some exp in to the yaml file.

Alerting rules is in Prometheus servers send alerts to an alert manager and alert manager managed those alerts.

<p>the rule document in there: the rules doc </p>

<h2 id="1-2Alerting-Manager">1-2Alerting Manager</h2>

<p>AlertingManager is a command line tool and the command line tool flags has those functions</p>

configure immutable system parameters

configuration file defines inhibition rules

configuration notification routing

configuration notification receivers

router editor

<p>Alerting notifications steps</p>

Setup and configure the alert manager

Configure Prometheus to talk to the alert manager

Create alerting rules in Prometheus

<h3 id="1-2-1-Configs">1-2-1 Configs</h3>

config.file: specify which configuration file to load <code>./alertmanager --config.file=alertmanager.yml</code>

the file written in the YAML format and defined by the scheme described below

<code><duration></code>: a duration matching the regular expression <code>[0-9]+(ms|[smhdwy])</code>

<code><labelname></code>: a string matching the regular expression <code>[a-zA-Z_][a-zA-Z0-9_]*</code>

<code><labelvalue></code>: a string of unicode characters

<code><filepath></code>: a valid path in the current working directory

<code><boolean></code>: a boolean that can take the values true or false

<code><string></code>: a regular string

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<li> <code>&lt;secret&gt;</code>: a regular string that is a secret, such as a password</li>
<li> <code>&lt;tmpl_string&gt;</code>: a string which is template-expanded before usage</
i>
<li> <code>&lt;tmpl_secret&gt;</code>: a string which is template-expanded before usage t
at is a secret</li>
<li> <code>&lt;int&gt;</code>: an integer value</li>
</ul>
</li>
</ul>
</li>
</ul>
</ul>
<p>there is the <a href="https://ld246.com/forward?goto=https%3A%2F%2Fgithub.com%2
prometheus%2Falertmanager%2Fblob%2Fmaster%2Fdoc%2Fexamples%2Fsimple.yml" targe
="_blank" rel="nofollow ugc">simple file</a> and <a href="https://ld246.com/forward?got
=https%3A%2F%2Fprometheus.io%2Fdocs%2Falerting%2Flatest%2Fconfiguration%2F" targe
="_blank" rel="nofollow ugc">some configs</a> </p>
<h3 id="1-2-2-Cores">1-2-2 Cores</h3>
<ul>
<li>
<p>Grouping</p>
<ul>
<li>Grouping categorizes alerts of similar nature into a single notification.</li>
</ul>
</li>
<li>
<p>Inhibition</p>
<ul>
<li>Inhibition is a concept of suppressing notifications for certain alerts if certain other alerts
re already firing</li>
</ul>
</li>
<li>
<p>Silences</p>
<ul>
<li>Silences are a straightforward way to simply mute alerts for a given time.</li>
<li>A silence is configured based on matchers, just like the routing tree.</li>
<li>Silences are configured in the web interface of the Alert manager.</li>
</ul>
</li>
</ul>
<h3 id="1-2-3-Notification-template-Reference">1-2-3 Notification template Reference</h
>
<h4 id="1-2-3-1-Data-structures">1-2-3-1 Data structures</h4>
<p>data</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>

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<td>Receiver</td>
<td>string</td>
<td>The notification will be send to</td>
</tr>
<tr>
<td>Status</td>
<td>string</td>
<td>Defined as firing if at least one alert if firing.otherwise resolved</td>
</tr>
<tr>
<td>Alerts</td>
<td>Alert</td>
<td>List of all alert objects in this group</td>
</tr>
<tr>
<td>GroupLabels</td>
<td>kv</td>
<td>The labels these alerts were grouped by</td>
</tr>
<tr>
<td>CommonLabels</td>
<td>kv</td>
<td>The labels common to all of the alerts</td>
</tr>
<tr>
<td>CommonAnnotations</td>
<td>kv</td>
<td>set of common annotations to all of the alerts. Used for longer additional strings of info
information about the alert</td>
</tr>
<tr>
<td>ExternalURL</td>
<td>string</td>
<td>Backlink to the alert manager that send the notification</td>
</tr>
</tbody>
</table>
<p>alert</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>string</td>
<td>Defines whether or not the alert is resolved or currently firing</td>
</tr>
<tr>
<td>Labels</td>

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<td>kv</td>
<td>A set of labels to be attached to the alert</td>
</tr>
<tr>
<td>Annotations</td>
<td>kv</td>
<td>A set of annotations for the alert</td>
</tr>
<tr>
<td>StartsAt</td>
<td>time.Time</td>
<td>The time the alert started firing</td>
</tr>
<tr>
<td>EndsAt</td>
<td>time.Time</td>
<td>Only set if the end time of an alert is know</td>
</tr>
<tr>
<td>GeneratorURL</td>
<td>string</td>
<td>A backlink which identifies the causing entity of this alert</td>
</tr>
</tbody>
</table>
<p>kv</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Args</th>
<th>Returns</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SortedPairs</td>
<td>-</td>
<td>Pairs(list of key/value string pairs)</td>
<td>Return s a sorted list of key/value pairs</td>
</tr>
<tr>
<td>Remove</td>
<td>[] string</td>
<td>kv</td>
<td>Returns a copy of the key/value map without the given keys.</td>
</tr>
<tr>
<td>Names</td>
<td>-</td>
<td>[]string</td>
<td>Returns the names of the label names in the labelset</td>
</tr>

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<tr>
<td>Values</td>
<td>-</td>
<td>[]string</td>
<td>Returns the list of values in the labelset</td>
</tr>
</tbody>
</table>
<p>functions</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Args</th>
<th>Returns</th>
</tr>
</thead>
<tbody>
<tr>
<td>title</td>
<td>string</td>
<td>strings.Title, capitalises first character of each word</td>
</tr>
<tr>
<td>toUpper</td>
<td>string</td>
<td>-</td>
</tr>
<tr>
<td>toLowerCase</td>
<td>string</td>
<td>-</td>
</tr>
<tr>
<td>match</td>
<td>pattern,string</td>
<td>Regexp.MatchString.Match a string using Regexp</td>
</tr>
<tr>
<td>replaceAll</td>
<td>pattern,replacement,text</td>
<td>Regexp.ReplaceAllString Regexp substitution,unanchored</td>
</tr>
<tr>
<td>join</td>
<td>sep string,s []string</td>
<td>strings.join</td>
</tr>
<tr>
<td>safeHtml</td>
<td>text string</td>
<td>html/template.HTML</td>
</tr>
<tr>

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<td>stringSlice</td>
<td>...string</td>
<td>Returns the passed strings as a slice of strings</td>
</tr>
</tbody>
</table>
```