

Labels in Prometheus Alerts

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Prometheus

- Monitoring and Alerting
- Scrapes metrics
- Generates alerts



Alerts and Notifications



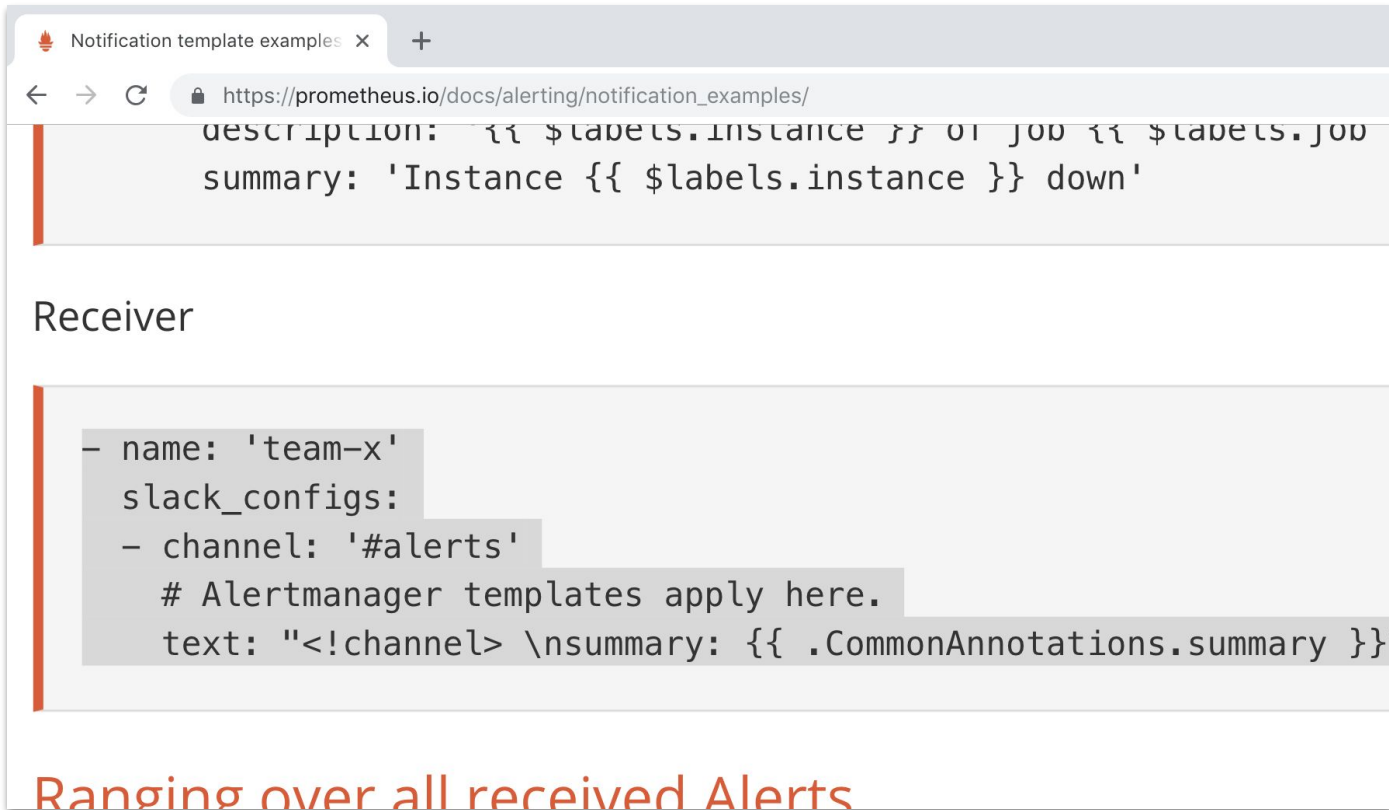
Notification templates



Example

```
- alert: InstanceDown
  expr: up == 0
  for: 5m
  annotations:
    summary: "Instance down"
    description: "{{ $labels.instance }} of
job {{ $labels.job }} has been down for more
than 5 minutes."
```

Prometheus documentation



The screenshot shows a web browser window with the URL `https://prometheus.io/docs/alerting/notification_examples/`. The page content is as follows:

```
description: '{{ $labels.instance }} of job {{ $labels.job }}'
summary: 'Instance {{ $labels.instance }} down'
```

Receiver

```
- name: 'team-x'
  slack_configs:
    - channel: '#alerts'
      # Alertmanager templates apply here.
      text: "<!channel> \nsummary: {{ .CommonAnnotations.summary }}"
```

Ranging over all received Alerts

What we get in Slack

AlertManager APP 8:34 PM

Instance down

distributor:8081 of job distributor has been down for more than 5 minutes.



One day the description was blank!

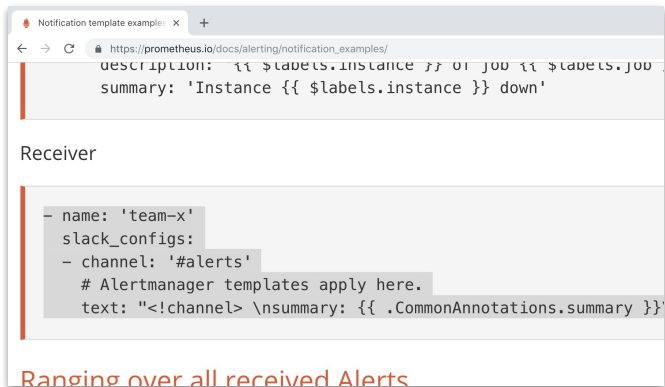
[FIRING:4] InstanceDown

summary: Instance down

description:



What did we really do?



The screenshot shows a web browser window with the URL `https://prometheus.io/docs/alerting/notification_examples/`. The page content includes a notification template configuration:

```
description: '{{ $labels.instance }} is up {{ $labels.job }}'
summary: 'Instance {{ $labels.instance }} down'
```

Below the template, there is a 'Receiver' section with the following configuration:

```
- name: 'team-x'
  slack_configs:
  - channel: '#alerts'
    # Alertmanager templates apply here.
    text: '<!channel> \nsummary: {{{ .CommonAnnotations.summary }}}'
```

At the bottom of the receiver configuration, there is a red text link: [Ranging over all received Alerts](#)

```
text: "...
```

```
description:
```

```
{{
```

```
.CommonAnnotations.description
```

```
}}"
```


Multiple alerts

Prometheus Alerts Graph Status ▾ Help

InstanceDown (3 active)

Labels	State
<code>alertname="InstanceDown"</code> <code>instance="distributor:8081"</code> <code>job="distributor"</code>	FIRING
Annotations description distributor:8081 of job distributor has been down for more than 5 minutes. summary Instance down	
<code>alertname="InstanceDown"</code> <code>instance="manager:8080"</code> <code>job="manager"</code>	FIRING
Annotations description manager:8080 of job manager has been down for more than 5 minutes. summary Instance down	
<code>alertname="InstanceDown"</code> <code>instance="ingester:8082"</code> <code>job="ingester"</code>	FIRING
Annotations description ingester:8082 of job ingester has been down for more than 5 minutes.	

Better template

```
{{ define "slack.custom.text" }}
  {{ if .CommonAnnotations.description }}
    {{ .CommonAnnotations.description }}
  {{ else }}
    {{ range $i, $alert := .Alerts }}
      {{ .Annotations.description }}
    {{ end }}
  {{ end }}
{{ end }}
```

Blog post: <http://bit.ly/labels-think>



Notifications with new template

AlertManager APP 8:34 PM

Instance down

distributor:8081 of job distributor has been down for more than 5 minutes.

AlertManager APP 4:00 PM

Instance down

distributor:8081 of job distributor has been down for more than 5 minutes.

ingester:8082 of job ingester has been down for more than 5 minutes.

manager:8080 of job manager has been down for more than 5 minutes.



Prometheus Brings Fire by Heinrich Friedrich Füger.

MISSION ACCOMPLISHED



Thanks!

Elena Morozova

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Blog post:

<http://bit.ly/labels-think>

Prometheus Brings Fire by Heinrich Friedrich Füger.