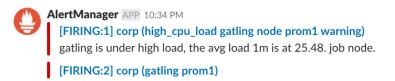
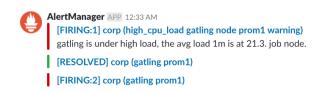
# Better Slack alerts from Prometheus



If you are using Prometheus and Alertmanager for monitoring and have the latter to send notifications to Slack, you probably do not like the default notification template which in most of the cases hides the alert details.

For example, let's take a look:





As you can see, the default template groups by common labels and the description is only shown if it is common for all notifications which is rarely a case. Usually, when you have multiple notifications of different nature you just see this:



More alerts, less details unfortunately. How can we improve this?

There is an official documentation on customizing Alertmanager's notification template and references to Golang templating. However, if you are not very familiar with this, you may find it hard and boring.

Here is one quick way of improving your alerts.

1. Set **title** and **text** fields of slack\_config of your Alertmanager's config to use *custom\_title* and *custom\_slack\_message* definitions as follow:

```
receivers:
- name: slack-channel
    slack_configs:
    - channel: #monitoring
    icon_url: https://avatars3.githubusercontent.com/u/3380462
    send_resolved: true
```

```
title: '{{ template "custom_title" . }}'
text: '{{ template "custom_slack_message" . }}'
```

Also add the following snippet in the end assuming Alertmanger can access this file:

```
templates:
- /alertmanager/notifications.tmpl
```

## 2. Create notifications.tmpl:

```
{{ define "__single_message_title" }}{{ range .Alerts.Firing }}{{
.Labels.alertname }} @ {{ .Annotations.identifier }}{{ end }}{{
range .Alerts.Resolved }}{{ .Labels.alertname }} @ {{
.Annotations.identifier }}{{ end }}{{ end }}

{{ define "custom_title" }}[{{ .Status | toUpper }}{{ if eq .Status
"firing" }}:{{ .Alerts.Firing | len }}{{ end }}] {{ if or (and (eq
(len .Alerts.Firing) 1) (eq (len .Alerts.Resolved) 0)) (and (eq (len
.Alerts.Firing) 0) (eq (len .Alerts.Resolved) 1)) }}{{ template
"__single_message_title" . }}{{ end }}{{ end }}
```

```
{{ define "custom slack message" }}
{{ if or (and (eq (len .Alerts.Firing) 1) (eq (len .Alerts.Resolved)
0)) (and (eq (len .Alerts.Firing) 0) (eq (len .Alerts.Resolved) 1))
} }
{{ range .Alerts.Firing }}{{ .Annotations.description }}{{ end }}{{
range .Alerts.Resolved }}{{ .Annotations.description }}{{ end }}
{{ else }}
{{ if gt (len .Alerts.Firing) 0 }}
*Alerts Firing:*
{{ range .Alerts.Firing }}- {{ .Annotations.identifier }}: {{
.Annotations.description }}
{{ end }}{{ end }}
{{ if qt (len .Alerts.Resolved) 0 }}
*Alerts Resolved:*
{{ range .Alerts.Resolved }}- {{ .Annotations.identifier }}: {{
.Annotations.description }}
{{ end }}{{ end }}
{{ end }}
{{ end }}
```

3. Ensure each of your Prometheus alerts contains **identifier** and **description** tags in the annotations block, e.g.

```
- alert: instance_down
expr: up == 0
for: 5m
```

```
annotations:
   identifier: '{{ $labels.instance }}'
   description: '{{ $labels.job }} exporter job has been down for
more than 5 minutes.'
```

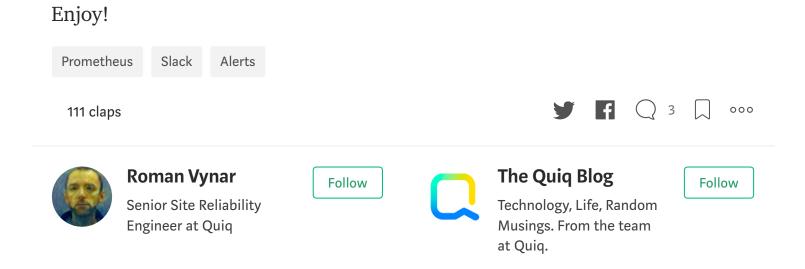
Done. Restart Alertmanager and your Slack notifications will get better:

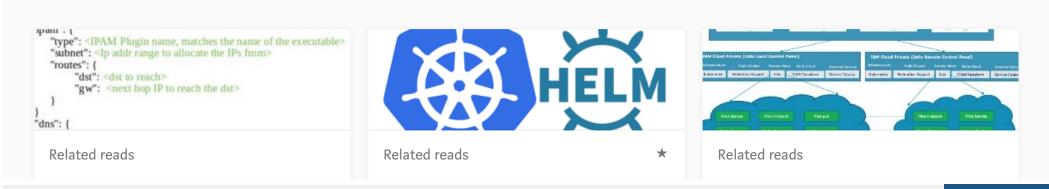


As you can see a single alert contains "alert name @ instance" in the notification title. In case of multiple alerts, the message body expands with

details in a form of the list "- identifier: description" groupped by Resolved/Firing.

Also feel free to modify notifications.tmpl with your own format, use different annotations, e.g. **instance** label instead of **identifier**, etc.





# Container Networking Interface aka CNI



152

# Configuring minimal RBAC permissions for Helm and Tiller



225 |

### Multi Cluster Support for Service Mesh with IBM Cloud Private



250

#### Responses

|--|

Conversation with Roman Vynar.

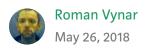


## James Sparenberg

May 25, 2018

- 1.) You hit a big issue with slack notifications right between the eyes. Thank you.
- 2.) the function to Upper caused an error by being "undefined". Not being a go maven, I'm not sure where/how it should be defined. Suggestions?

1 response  $\square$ 



Hi, Thanks.

toUpper() should be available according to <a href="https://prometheus.io/docs/prometheus/latest/configuration/template-refe">https://prometheus.io/docs/prometheus/latest/configuration/template-refe</a> <a href="rence/">rence/</a> Not sure why it's not defined, if you try w/o it?

Conversation with Roman Vynar.



Hi Roman, that's a nice article, i'm already using configured AlertManager, but today i've disocvered the icon\_url parameter. I've added it to my slack\_config like below, but unfortunatelly it's not working, and I'm out of ideas why. Alert manager in newest release, install by Helm chart on Kubernetes. Config below:

Read more...

1 response



Looks like the issue is with URL you are using. May be an image is not accessible from within the Slack app. Does this one work <a href="https://avatars3.githubusercontent.com/u/3380462">https://avatars3.githubusercontent.com/u/3380462</a>?

Show all responses