Prometheus Alertmanager Configuration

» Alertmanager Installation :

1. *Download Alertmanager :*
   wget https://github.com/prometheus/alertmanager/releases/download/v0.16.2/alertmanager-0.16.2.linux-amd64.tar.gz

2. *Extract tar file :*
   tar -xvzf alertmanager-0.16.2.linux-amd64.tar.gz

3. *Move alertmanager to /usr/local/bin :*
   mv alertmanager-0.16.2.linux-amd64/
   alertmanager/usr/local/bin/

» Configuration files :

1. *New alertmanager folder in etc :*
   Mkdir /etc/alertmanager

2. *Add alertmanager.yml file :*
   vim /etc/alertmanager/alertmanager.yml

3. *Add alert-rules file :*
   vim /etc/prometheus/alert_rules.yml

4. *Add alertmanager service file :*
   vim /etc/systemd/system/alertmanager.service

5. *Add Prometheus.yml file :*
   vim /etc/prometheus/prometheus.yml

6. *Custom HTML template file for alert-mail:*
   vim /etc/alertmanager/templates/custom.tmpl

7. *systemctl daemon-reload*

8. *systemctl start alertmanager*

9. *systemctl status alertmanager*

* Note : **All configuration files should have proper indentations :**

» alertmanager.yml file :

```
global:
  resolve_timeout: 2s

templates:
- '/etc/alertmanager/templates/custom.tmpl'

route:
  group_by: [Alertname]
  receiver: sid

receivers:
- name: sid
  email_configs:
  - to: sidsamplemail@gmail.com
    from: sidsamplemail@gmail.com
    smarthost: smtp.gmail.com:587
    auth_username: "sidsamplemail@gmail.com"
    auth_identity: "sidsamplemail@gmail.com"
    auth_password: "55sidkhore55"
    headers:
      subject: "You have {{ .Alerts.Firing | len }} firing alerts"
    html: '{{ template "custom.html" . }}'
```

» alert_rules file :

```
groups:
  - name: example
    rules:
    - alert: InstanceDown
      expr: up == 0
      for: 10s
    - alert: temp Memory..
      expr: avg_over_time(node_hwmon_temp_celsius
            {sensor="temp2"}[30d]) > 5
      for: 1s
      labels:
          severity: "ERROR"
      annotations:
          summary: "High temp...!"
          message: " {{$value}}"
```

» alertmanager.service file :

```
[Unit]
Description=AlertManager Server Service
Wants=network-online.target
After=network-online.target

[Service]
User=prometheus
Group=prometheus
ExecStart=/usr/local/bin/alertmanager \
     --config.file=/etc/alertmanager/alertmanager.yml

[Install]
WantedBy=multi-user.target
```

» prometheus.yml file :

```yaml
global:
  scrape_interval:     5s # Set the scrape interval to every 15 seconds. Default is every 1 minute.
  evaluation_interval: 5s # Evaluate rules every 15 seconds. The default is every 1 minute.
  # scrape_timeout is set to the global default (10s).

# Alertmanager configuration
alerting:
  alertmanagers:
  - static_configs:
    - targets:
      - localhost:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
  - "alert_rules.yml"

scrape_configs:
  - job_name: 'prometheus'
    static_configs:
      - targets: ['localhost:9090']

  - job_name: 'node_exporter'
    static_configs:
      - targets: ['localhost:9100']
```

» Custom HTML template file for mail (custom.tmpl) :

```
{{ define "custom.html" }}
<body style="background-color:#87cef5;">
    Hello sid,

    <p>
    You have the following firing alerts:
    <ul>
    {{ range .Alerts }}
    <li style="color:white;"> Alert Name :- {{.Labels.alertname}} </li>
    <li style="color:white;"> Current Instance :- {{.Labels.instance}} </li>
    <li style="color:white;"> Job Name :- {{.Labels.job}} </li>
    <li style="color:white;"> Sensor :- {{.Labels.sensor}} </li>
    <li style="color:white;"> Severity :- {{.Labels.severity}} </li>
    <li style="color:white;"> Current value :- {{.Annotations.message}} </li>
    {{ end }}
    </ul>
    </p>
</body>
{{ end }}
```

Restart Prometheus, node_exporter, alertmanager :

» sudo service prometheus restart

» sudo systemctl restart node_exporter

» sudo systemctl restart alertmanager

» Prometheus alertmanager mail :