

Monitoring Services Installation

Prerequisites: Install docker - [Docker Installation](#)

Prometheus Installation:

- Create prometheus configuration directory:

```
sudo mkdir /opt/prometheus
```

- Create sample prometheus.yml file (which needs to be modified later)

```
sudo vi /opt/prometheus/prometheus.yml
```

```
# A scrape configuration scraping a Node Exporter and the Prometheus
server
# itself.
scrape_configs:
  # Scrape Prometheus itself every 5 seconds.
  - job_name: 'prometheus'
    scrape_interval: 5s
    target_groups:
      - targets: ['localhost:9090']

  # Scrape the Node Exporter every 5 seconds.
  - job_name: 'node'
    scrape_interval: 5s
    target_groups:
      - targets: ['your_server_ip:9100']
```

- Create prometheus data directory

```
sudo mkdir -p /data/1/prometheus-data/ ; sudo chmod 777 -R /data/1/prometheus-data/
```

- Install Prometheus docker container

```
sudo docker run -d --restart always --name prometheus-container -p 9090:9090 -v /data/1/prometheus-data:/
/prometheus -v /opt/prometheus:/etc/prometheus prom/prometheus:v2.22.1 --config.file=/etc/prometheus
/prometheus.yml --storage.tsdb.path=/prometheus --web.console.libraries=/usr/share/prometheus
/console_libraries --web.console.templates=/usr/share/prometheus/consoles --storage.tsdb.retention.
time=300h --web.enable-admin-api
```

- Browse for `http:<vm_ip_address>:9090`

Alertmanager Installation:

- Create alertmanager configuration directory:

```
sudo mkdir /opt/alertmanager
```

- Create sample alertmanager.yml file (which needs to be modified later)

```
sudo vi /opt/alertmanager/alertmanager.yml
```

```

route:
  group_by: ['alertname']
  group_wait: 30s
  group_interval: 5m
  repeat_interval: 1h
  receiver: 'web.hook'
receivers:
- name: 'web.hook'
  webhook_configs:
  - url: 'http://127.0.0.1:5001/'
inhibit_rules:
- source_match:
  severity: 'critical'
  target_match:
  severity: 'warning'
  equal: ['alertname', 'dev', 'instance']

```

- Install alertmanager docker container
`sudo docker run -d --restart always --name alertmanager-container -p 9093:9093 -v /opt/alertmanager/alertmanager.yml:/alertmanager/alertmanager.yml prom/alertmanager:v0.21.0 --config.file /alertmanager/alertmanager.yml`
- Browse for `http:<vm_ip_address>:9093`

Grafana Installation:

- Install Grafana Docker Container
`sudo docker run -d --restart always --name grafana-container -p 3000:3000 grafana/grafana:6.7.1`
- Browse for `http:<vm_ip_address>:3000`
- Provide admin/admin as a username and as a initial password