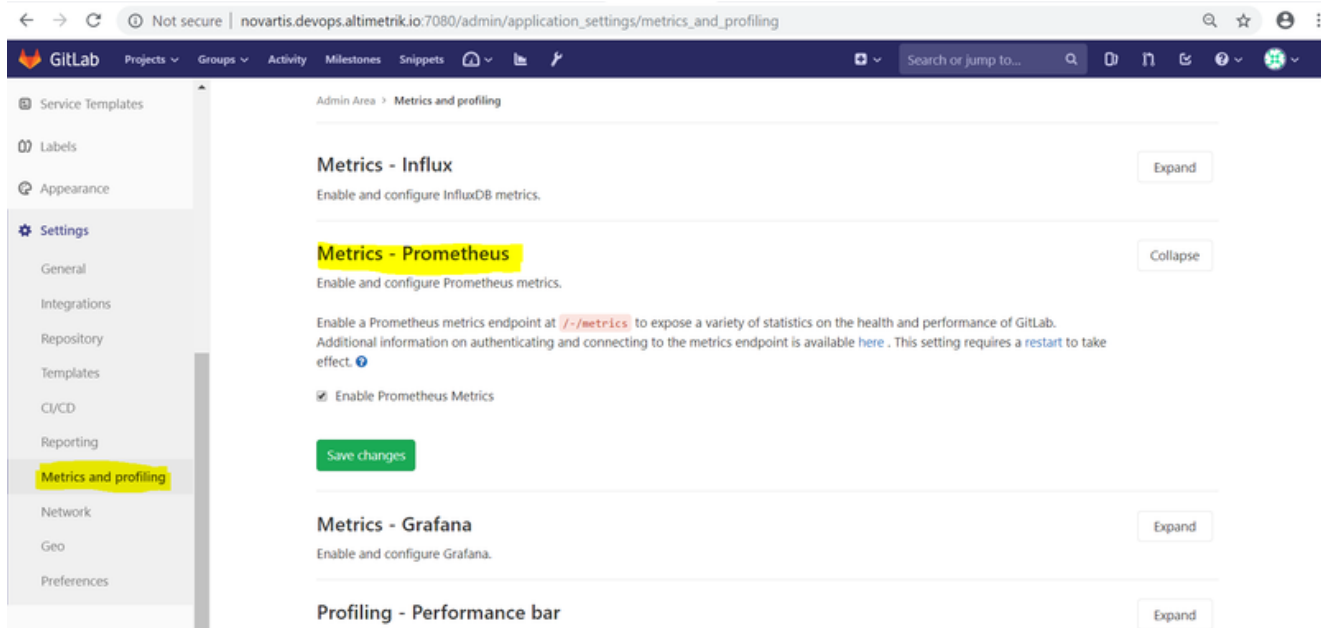


# Configure Prometheus and Grafana for GitLabEE

## Installation and upgrade:

1. Log into GitLab as an administrator, and go to the Admin area.
2. Navigate to GitLab's **Settings > Metrics and profiling**.
3. Find the **Metrics - Prometheus** section, and click **Enable Prometheus Metrics**.
4. **Restart GitLab** for the changes to take effect



## Configuring Prometheus

1. Edit /data/gitlabee/config/gitlab.rb.

Disable the bundled Prometheus:

```
prometheus['enable'] = false
```

2. Changing the port and address Prometheus listens on

Edit /data/gitlabee/config/gitlab.rb

```
prometheus['listen_address'] = ':9090'
# or
prometheus['listen_address'] = '0.0.0.0:9090'
```

Save the file and [reconfigure GitLab](#) for the changes to take effect

3. Set each bundled service's [exporter](#) to listen on a network address, for example:

```
gitlab_monitor['listen_address'] = '0.0.0.0'
sidekiq['listen_address'] = '0.0.0.0'
gitlab_monitor['listen_port'] = '9168'
node_exporter['listen_address'] = '0.0.0.0:9100'
redis_exporter['listen_address'] = '0.0.0.0:9121'
postgres_exporter['listen_address'] = '0.0.0.0:9187'
gitaly['prometheus_listen_addr'] = "0.0.0.0:9236"
gitlab_workhorse['prometheus_listen_addr'] = "0.0.0.0:9229"
```

4. To scrape nginx metrics, you'll also need to configure nginx to allow the Prometheus server IP. For example:

```
nginx['status']['options'] = {  
    "server_tokens" => "off",  
    "access_log" => "off",  
    "allow" => "192.168.0.1",  
    "deny" => "all",  
}
```

#### Usage:

Add each node's exporters to the Prometheus server's ,The *prometheus.yml* settings looks like:

/data/prometheus/config/prometheus.yml

```
- job_name: gitlabee-exporter  
  honor_timestamps: true  
  scrape_interval: 15s  
  scrape_timeout: 10s  
  #metrics_path: /metrics  
  scheme: http  
  ec2_sd_configs:  
  - endpoint: ""  
    region: us-east-1  
    access_key: AKIAZXZIY4Q4M3JKI4TO  
    secret_key: <secret>  
    profile: arn:aws:iam::536285340728:user/devplatarn  
    refresh_interval: 1m  
    port: 9090  
    filters: []  
  relabel_configs:  
  - source_labels: [__meta_ec2_tag_Name]  
    separator: ;  
    regex: ^novartis-devops-bitbucket$  
    replacement: $1  
    action: keep  
  - source_labels: [__meta_ec2_public_ip]  
    separator: ;  
    regex: (.+)  
    target_label: __address__  
    replacement: novartis.devops.altimetrik.io:9090  
    action: replace
```

Reload the Prometheus server.

Installation and setup is finished. You can collect metrics. Prometheus will be available at <http://novartis.devops.altimetrik.io:9090/>

← → ↻ Not secure | novartis.devops.altimetrik.io:9090/targets

Prometheus alerts graph Status ▾ Help

http://10.0.0.12:9180/metrics	UP	instance = "novartis-devops-prometheus" job = "cadvisor"	6.722 seconds ago	93.59ms	
gitlabee-export (1/1 up) <a href="#">show logs</a>					
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://novartis.devops.altimetrik.io:9090/metrics	UP	instance = "novartis-devops-altimetrik-io-9090" job = "gitlabee-export"	8.173s ago	218.1ms	
jenkins-export (1/1 up) <a href="#">show logs</a>					
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://novartis.devops.altimetrik.io:8084/prometheus	UP	instance = "novartis-devops-altimetrik-io-8084" job = "jenkins-export"	6.325s ago	29.38ms	
jira-export (1/1 up) <a href="#">show logs</a>					
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://novartis.devops.altimetrik.io:8080	UP	instance = "novartis-devops-altimetrik-io-8080"	11.365s ago	10.65ms	

← → ↻ ⓘ Not secure | novartis.devops.altimetrik.io:9090/graph

Prometheus Alerts Graph Status ▾ Help

☒ Enable query history

Expression (press Shift+Enter for newlines)

**Execute** - insert metric at cursor - [↕](#)

**Graph** [C](#)

**Element** [no data](#)

[Add Graph](#)

prometheus\_sd\_kubernetes\_cache\_watch\_events\_count

prometheus\_sd\_kubernetes\_cache\_watch\_events\_sum

prometheus\_sd\_kubernetes\_cache\_watches\_total

prometheus\_sd\_kubernetes\_events\_total

prometheus\_sd\_received\_updates\_total

prometheus\_sd\_refresh\_duration\_seconds

prometheus\_sd\_refresh\_duration\_seconds\_count

prometheus\_sd\_refresh\_duration\_seconds\_sum

prometheus\_sd\_refresh\_failures\_total

prometheus\_sd\_updates\_total

prometheus\_target\_interval\_length\_seconds

prometheus\_target\_interval\_length\_seconds\_count

Value


## Grafana Configuration

We will use Grafana to visualize metrics stored in Prometheus. There are a couple of example dashboards in the official site <https://grafana.com/grafana/dashboards>

Download the latest release of Grafana for your platform, then extract it:

Grafana Labs    Grafana    Products    Open Source    Learn    Downloads    Login    [Contact Us](#)

All dashboards » [Gitlab-Monitor](#)



### Gitlab-Monitor

by [Guillaume Torresani](#)

DASHBOARD

Monitor Gitlab: Memory, Process-Age, Sidekiq queue/Latency, Process Count

Last updated: 3 years ago

Downloads: 1253

Reviews: 0

[Add your review!](#)

Overview    Revisions    Reviews

## Dashboard Revisions

Revision	Description	Created	
5		February 23rd 2017, 9:17 pm	<a href="#">Download</a>
4		February 23rd 2017, 8:39 pm	<a href="#">Download</a>
3		February 23rd 2017, 8:28 pm	<a href="#">Download</a>
2		February 23rd 2017, 7:41 pm	<a href="#">Download</a>
1		February 23rd 2017, 7:00 pm	<a href="#">Download</a>

Get this dashboard:

1575

[Copy ID to Clipboard](#)

[Download JSON](#)

[How do I import this dashboard?](#)


Dependencies:

GRAFANA 4.1.1

Go to Grafana interface at <http://novartis.devops.altimetrik.io:3000/dashboard/import>

image2019-11-8\_12-39-30.png · v.1 [Current] ▾

← → ↺ Ⓢ Not secure | novartis.devops.altimetrik.io:3000/dashboard/import



**Import**

Import dashboard from file or Grafana.com

[Upload json file](#)

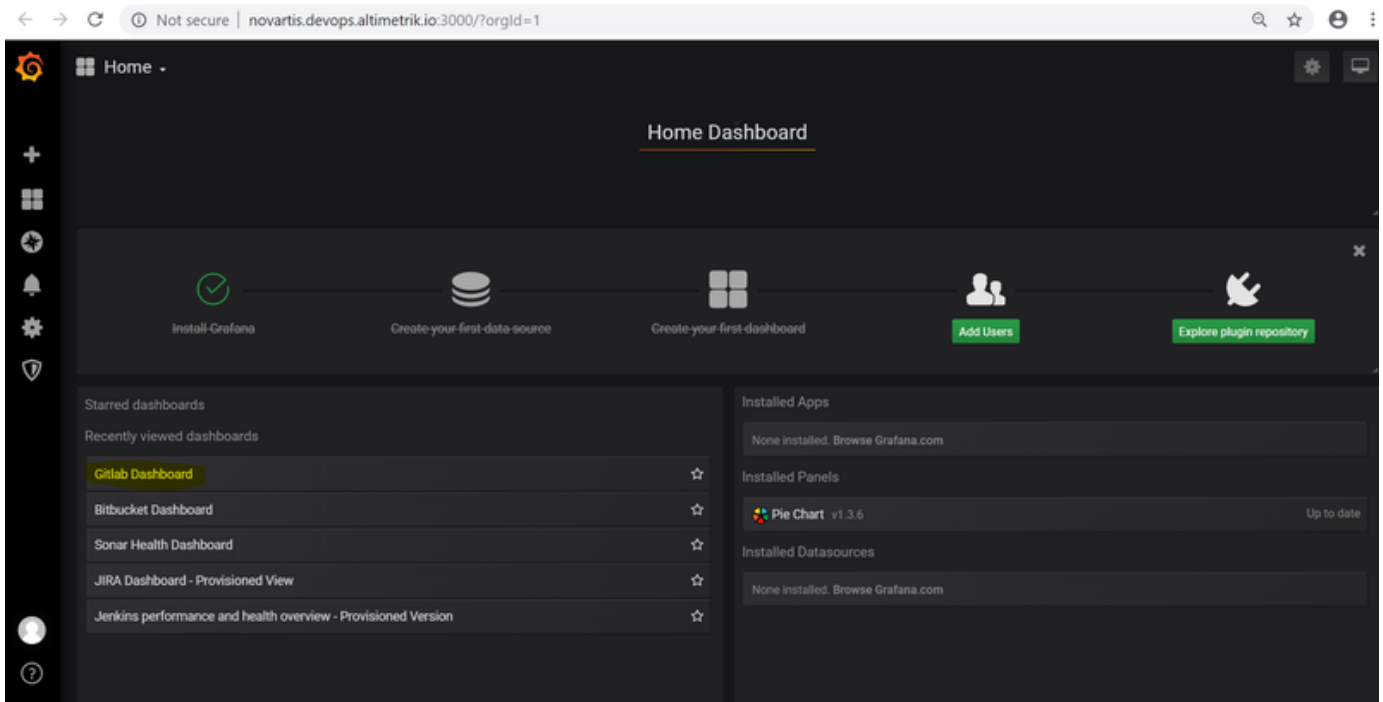
Grafana.com Dashboard

Paste Grafana.com dashboard url or id

Or paste JSON

Show all files ↗

Then, you can add a new Dashboard that will get the data from the previous created Data-Source.



After a couple of minutes you will be able to view your metrics on the Dashboard. You can also add new panels to the Dashboard.

You can also build one Dashboard to tack all your Atlassian tools in one single Dashboard.

