
What is Promgen?

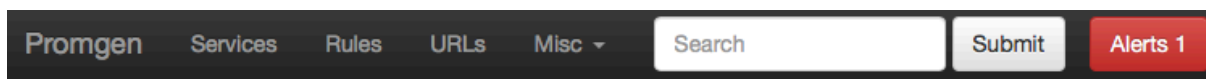
Promgen is a configuration file generator for Prometheus. Promgen is a web application written with Django and can help you do the following jobs.

- Create and manage Prometheus configuration files
- Configure alert rules and notification options

See the Promgen introduction slides for the original history of Promgen.

See <https://line.github.io/promgen/> for additional documentation.

Promgen screenshots



Service: Demo Service

[Home](#) / [Demo](#) / [Demo Service](#)

Rules (4)

Register RuleExport Rules

Name	Clause	Duration	Toggle	Delete
BlackboxProbeError	probe_success == 0	5m	<div>ONOFF</div>	Delete
ExporterDown	up == 0	5m	<div>ONOFF</div>	Delete
ExporterTargetDown	{__name__=~".*_up"} == 0	1m	<div>ONOFF</div>	Delete
NginxDown	rate/nginx_exporter_scrape_failures_total[30s] > 0	5m	<div>ONOFF</div>	Delete

Sender

Register Sender

Sender	Value		
promgen.notification.email	paul@example.com	Test	Delete

Projects

Register ProjectExport Service

Project	Farm	Exporters	Senders	Actions
Demo Project	Demo Farm (default)	apache9117 node 9100	promgen.notification.linenotify paul@line promgen.notification.ikasan #TeamRoom	Mute

Edit Service

Mute Service

Delete Service

Contributing

Below are the steps to get started with Promgen.

Please see CONTRIBUTING.md for contributing to Promgen.

If you believe you have discovered a vulnerability or have an issue related to security, please DO NOT open a public issue. Instead, send us a mail to dl_oss_dev@linecorp.com.

1. Initialize Promgen

Initialize Promgen using Docker.

```
1 # Create promgen setting directory.
2 mkdir -p ~/.config/promgen
3 chmod 777 ~/.config/promgen
4
5 # Initialize required settings with Docker container
6 # This will prompt you for connection settings for your database and
   Redis broker
7 # using the standard DSN syntax.
8 # Database example: mysql://username:password@hostname/databasename
9 # Broker example: redis://localhost:6379/0
10 docker run --rm -it -v ~/.config/promgen:/etc/promgen/ line/promgen
   docker-compose-bootstrap
11
12 # Apply database updates
13 docker run --rm -v ~/.config/promgen:/etc/promgen/ line/promgen migrate
14
15 # You can then check your configuration to ensure everything correct
16 docker run --rm -v ~/.config/promgen:/etc/promgen/ line/promgen check
17
18 # Create initial login user. This is the same as the default django-
   admin command
19 # https://docs.djangoproject.com/en/1.10/ref/django-admin/#django-admin
   -createsuperuser
20 docker run --rm -it -v ~/.config/promgen:/etc/promgen/ line/promgen
   createsuperuser
```

You can then use your favorite configuration management system to deploy to each worker.

Note: Promgen aims to use the XDG specs and follows suggestions made by the 12-Factor App.

2. Configure Prometheus

Configure Prometheus to load the target file from Prometheus and configure AlertManager to send notifications back to Promgen.

See the example settings files for proper configuration of Prometheus and AlertManager.

- Example settings file

-
- Example Prometheus file
 - Example AlertManager file

3. Run Promgen

Run Promgen using the following command.

```
1 # Run Promgen web worker. This is typically balanced behind an NGINX
   instance
2 docker run --rm -p 8000:8000 -v ~/.config/promgen:/etc/promgen/ line/
   promgen
3
4 # Run Promgen celery worker. Make sure to run it on the same machine as
   your Prometheus server to manage the config settings
5 docker run --rm -v ~/.config/promgen:/etc/promgen/ -v /etc/prometheus:/
   etc/prometheus line/promgen worker
6
7 # If you are using docker compose, you can spin up a demo environment
8 docker-compose up -d
9 # Database migration to populate with initial data
10 docker-compose run web docker-compose-bootstrap
11 # If you want to create a different admin user
12 docker-compose run web createsuperuser
13 # Now you should be able to open the demo environment in your browser
```

The MIT License

Copyright (c) 2017 LINE Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.