

Prometheus in Debian

4th year in a row!

Martina (Tina) Ferrari



November 7th, 2019

Debian contributor since 2005.

(Debian Developer since 2008)

Ex-Googler (and BorgMon lover).

Still happy as a freelance SRE/dev.

You should all try it, never work 9 to 5 again!

About Tina (ii)

Before you ask..

Yes. Last year I looked different.

It took me 40 years to realise I'm trans.

I have never been happier about myself!

Show of hands!

Who uses Debian (or derivatives) in production?

Who uses Debian packages for prometheus*?

Why Debian (i)

Not hip, but still relevant.

Runs on everything!

From embedded devices to supercomputers.

9 release arches + 13 non-release arches.

Over 120 active derivative distros. ¹

¹According to [Distrowatch](#). 300+ derivatives, 120+ active

Why Debian (ii)

Trusted, reproducible² binaries.

In general, not a good idea to download binaries from the web!

Package management, integration,
pre-set defaults, security support.

You still get up-to-date package versions,
thanks to backports.

²Buster released with 91% reproducible packages

As simple as running

```
$ apt install prometheus
```

To get a simple self-monitoring deployment, including local node-exporter.

Most packages available in 9+ architectures.

Stretch backports effort almost finished.

Buster backports about to be started.

Small, but growing team of maintainers.

Package versions (i)

Core packages:

package	stable	testing/sid
prometheus	2.7.1	2.13.1
prometheus-alertmanager	0.15.3	0.19.0
prometheus-pushgateway	0.7.0	1.0.0*

Client libraries:

language	stable	testing/sid
golang	0.9.0	1.2.1
perl	0.07	0.07
python	0.6.0	0.7.1*
ruby	0.9.4	0.9.10

Package versions (ii)

Exporters:

package	stable	testing/sid
cadvisor		0.34.0
mtail	3.0rc19	3.0rc24
prometheus-apache-exporter	0.5.0	0.7.0
prometheus-bind-exporter	0.2.0+	0.2.0++
prometheus-bird-exporter	1.2.2	1.2.2
prometheus-blackbox-exporter	0.13.0	0.13.0
prometheus-haproxy-exporter	0.9.0	0.9.0
prometheus-ipmi-exporter		1.0.0*
prometheus-mailexporter	1.0	1.0
prometheus-mongodb-exporter	1.0.0	1.0.0
prometheus-mysqld-exporter	0.11.0	0.11.0

Package versions (iii)

Exporters (continued):

package	stable	testing/sid
prometheus-nginx-exporter	0.1.0	0.4.2
prometheus-nginx-vts-exporter		0.10.3+
prometheus-node-exporter	0.17.0	0.18.1
prometheus-pgbouncer-exporter	1.7	1.7
prometheus-postfix-exporter		0.2.0
prometheus-postgres-exporter	0.4.7	0.5.1
prometheus-process-exporter	0.4.0	0.4.0
prometheus-snmp-exporter	0.14.0	0.15.0
prometheus-sql-exporter	0.2.0	0.2.0
prometheus-squid-exporter	1.4	1.4
prometheus-trafficserver-exporter	0.2.0	0.3.2
prometheus-varnish-exporter	1.4	1.5

Help is always needed!

A lot of work

- Keeping packages up to date and bug-free
- New dependencies all the time
- **ReactJS looming over!**
- Plenty of exporters to package
- Better integration, I still want to work on jsonnet stuff!

Help is always needed!

Extra complications

- Golang practices (vendoring, API breakage)
- Long tail of dependencies
- JavaScript

Current development status:

<https://tracker.debian.org/teams/pkg-prometheus/>

IRC channel:

[#debian-prometheus @ OFTC](#)



Thank you!

Thanks!



Martina Ferrari

tina@tincho.org

[@NightTsarina](#)

Also offering Prometheus support :-)