

DEVOPSSAAR

Netdata

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What is Netdata?

- A Real-Time Performance Monitoring Tool for Linux Systems
“Monitor and get overview of what is happening in real-time and what just happened, on your Linux systems and applications”
- Open Source (C, Python, JavaScript, Bash)
- Multi-Layer Monitoring

Applications

Services

System

Hardware

Other Monitoring Tools

- **Collectd**

"A daemon which collects system performance statistics periodically and provides mechanisms to store the values in a variety of ways, for example in RRD files."

- **Cacti**

"A complete frontend to RRDTool, it stores all of the necessary information to create graphs and populate them with data in a MySQL database."

- **Grafana**

"The leading graph and dashboard builder for visualizing time series metrics."

- **Many more**

icinga, nagios, prometheus, ...

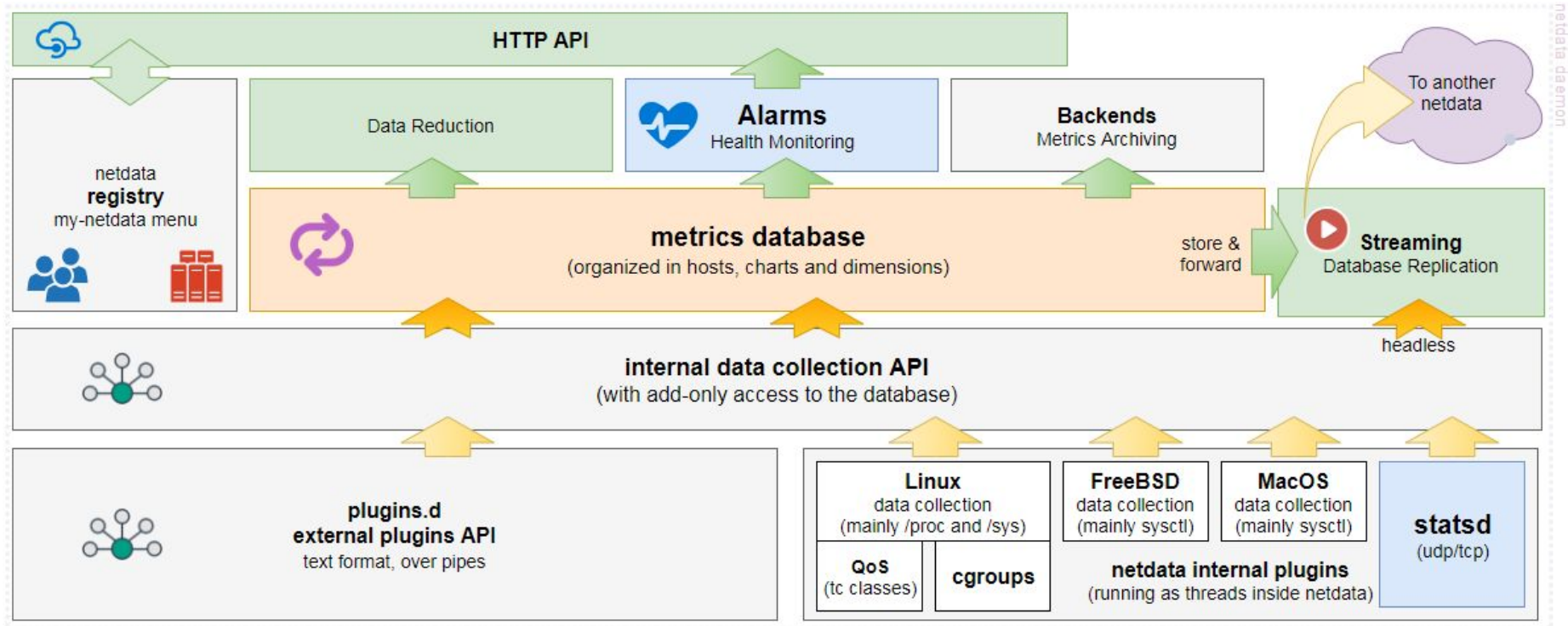


Why netdata? -> Netdata is unique!

- Per second data collection and visualization
- Realtime
- No disk I/O at all
- No root access required
- Embedded web server
- Configuration-less
- Visualizes QoS
- Aims for simplicity - easy to use
- Open and extensible via Add-ons

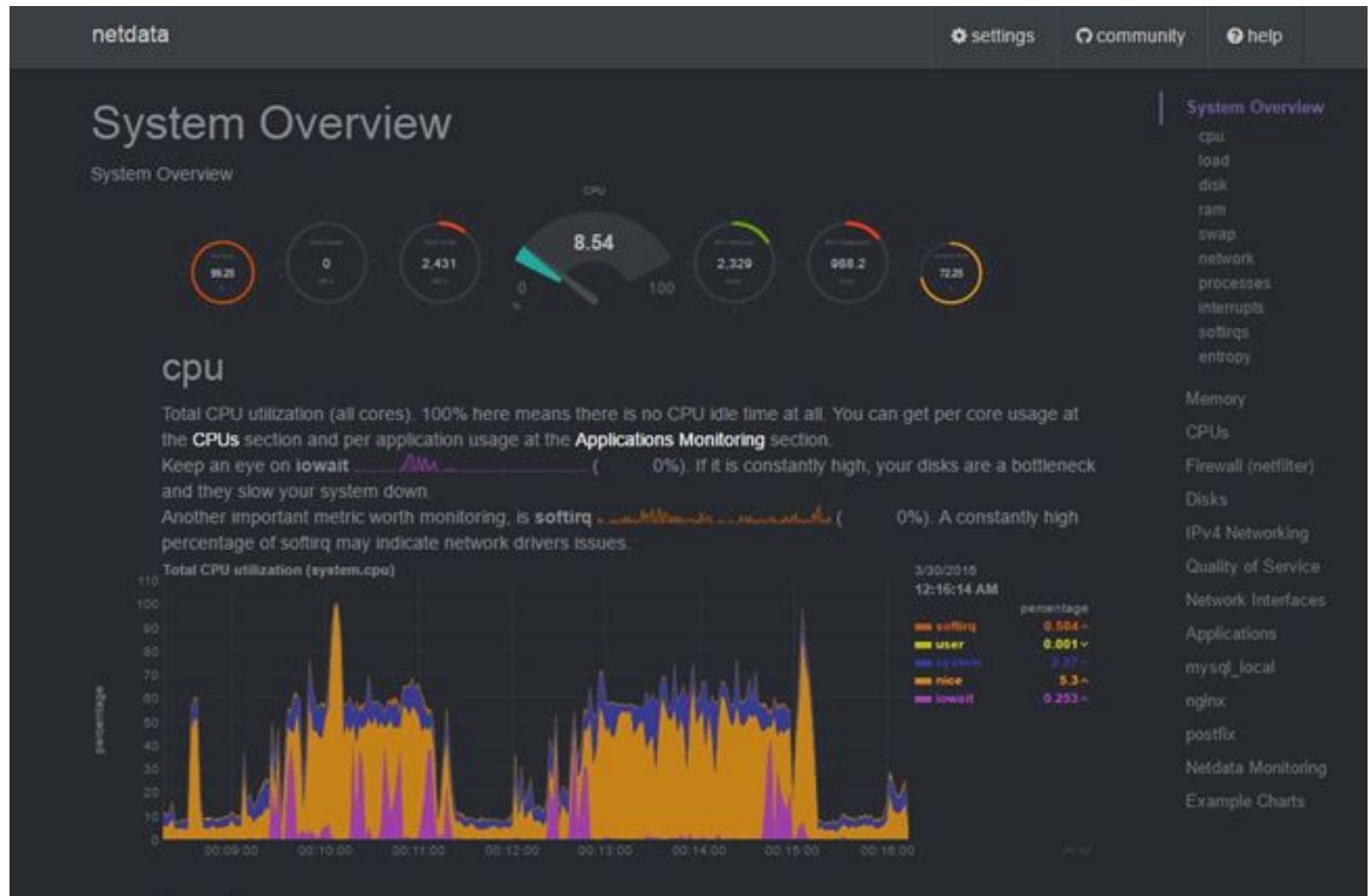
See more [Why-netdata?](#)

Netdata Architecture

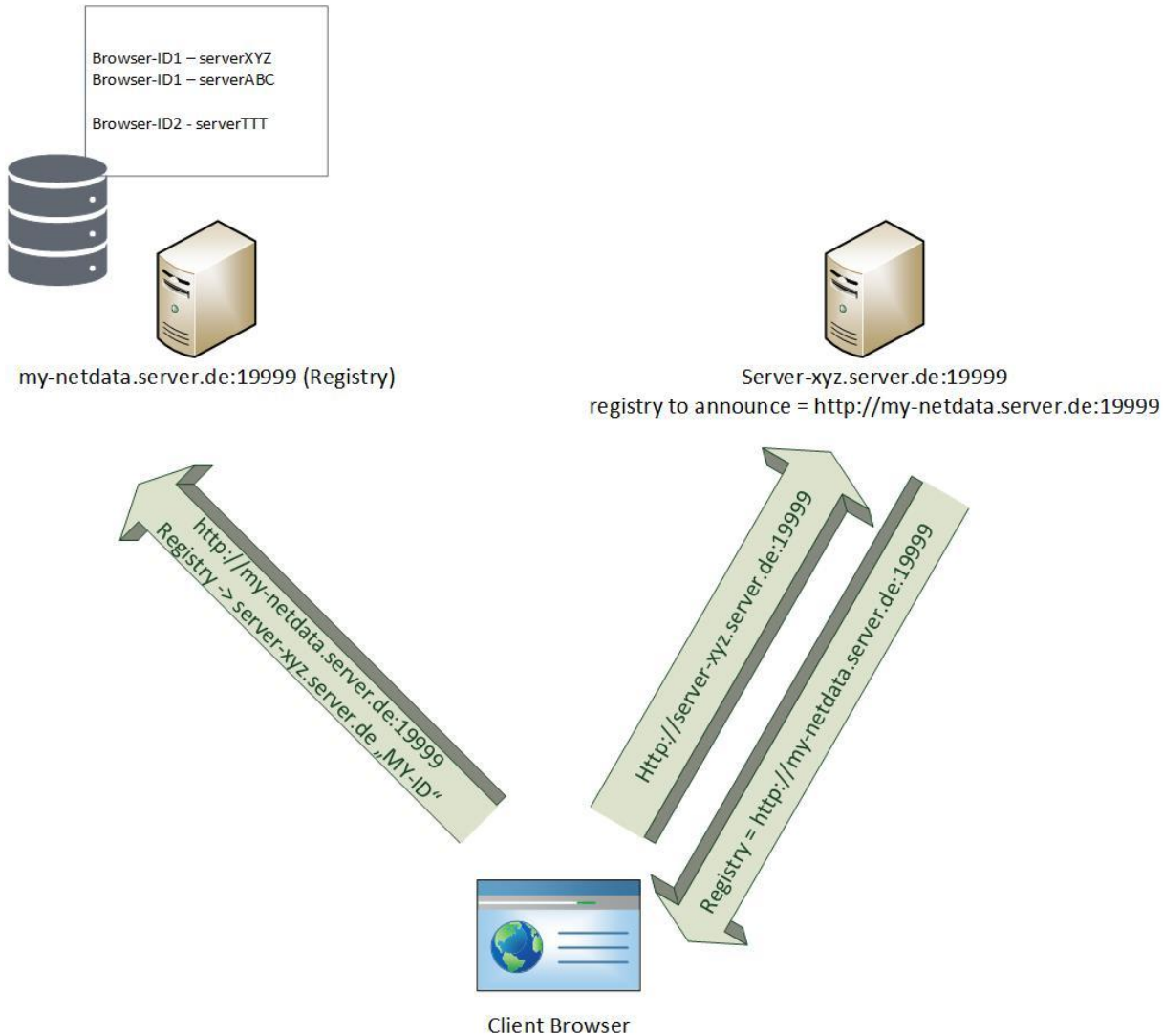


[Netdata Infographic with Dataflows](#)

Demo



my-netdata



How to Install?

- **Package Manager**
 - `apt-get install netdata`
 - See also [my-Netadata Installation](#)
- **Linux one-liner**
 - `bash <(curl -Ss https://my-netdata.io/kickstart.sh)`
Installs `netdata-updater.sh` to `cron.daily`, so your netdata installation will be updated daily.
Note that you will get a message from cron only if the update fails.
- **Latest release** *07/2018
 - netdata 1.10.0 – 2018-03-27
- **Ubuntu Package: > 17.10 (artful)** *07/2018
 - Artful (17.10) - netdata 1.7.0
 - Bionic (18.04LTS) – netdata 1.9.0
 - Cosmic (net) – netdata 1.10.0
- **Debian Package: > stable/backports (stretch)** *07/2018
 - Stretch-backports (stable) – netdata 1.6.0
 - Buster (testing) – netdata 1.9.0
 - Sid (unstable) – netdata 1.10.0
- **Version 1.10 Recommended**
 - Debian/Ubuntu Package – BUG python; resolved in 1.10

Good to know

- Embedded web Server
 - Default Port 19999
 - Configure bind Address
 - `/etc/netdata/netdata.conf`
 - binds socket to IP = 0.0.0.0 #Default with Linux one liner
 - `http://SERVER:19999`
- Stores measurements in Memory
 - Memory Requirements
 - 1h (3600 sec) → 14.4MB (default)
 - 8h (28800 sec) → 115.0MB
 - 24h (86400 sec) → 345.0MB

Thanks

