



# What's new and what's planned?

<https://pcp.io>

**Nathan Scott**

# What's new - last 9 months

- **Some highlights ...**

- Successful PCP 4.0 deployments!
  - RHEL 7.6 onwards
  - pmrep(1), dstat(1) – **demo**
- Vector
  - eBPF/BCC metrics - **demo**
  - Histograms - **demo**



# What's new – last 9 months

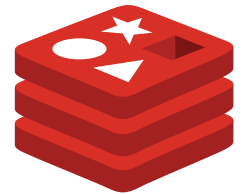
- **Some highlights ...**

- Archive compression
  - zeroconf (↑) vs compression (↓)
  - Data volumes (-v100Mb), .meta
  - During-the-day compression, rotation
- selinux stability
- Many new metrics, e.g.
  - Linux kernel “Pressure Stall Information”

# What's new – last 9 months

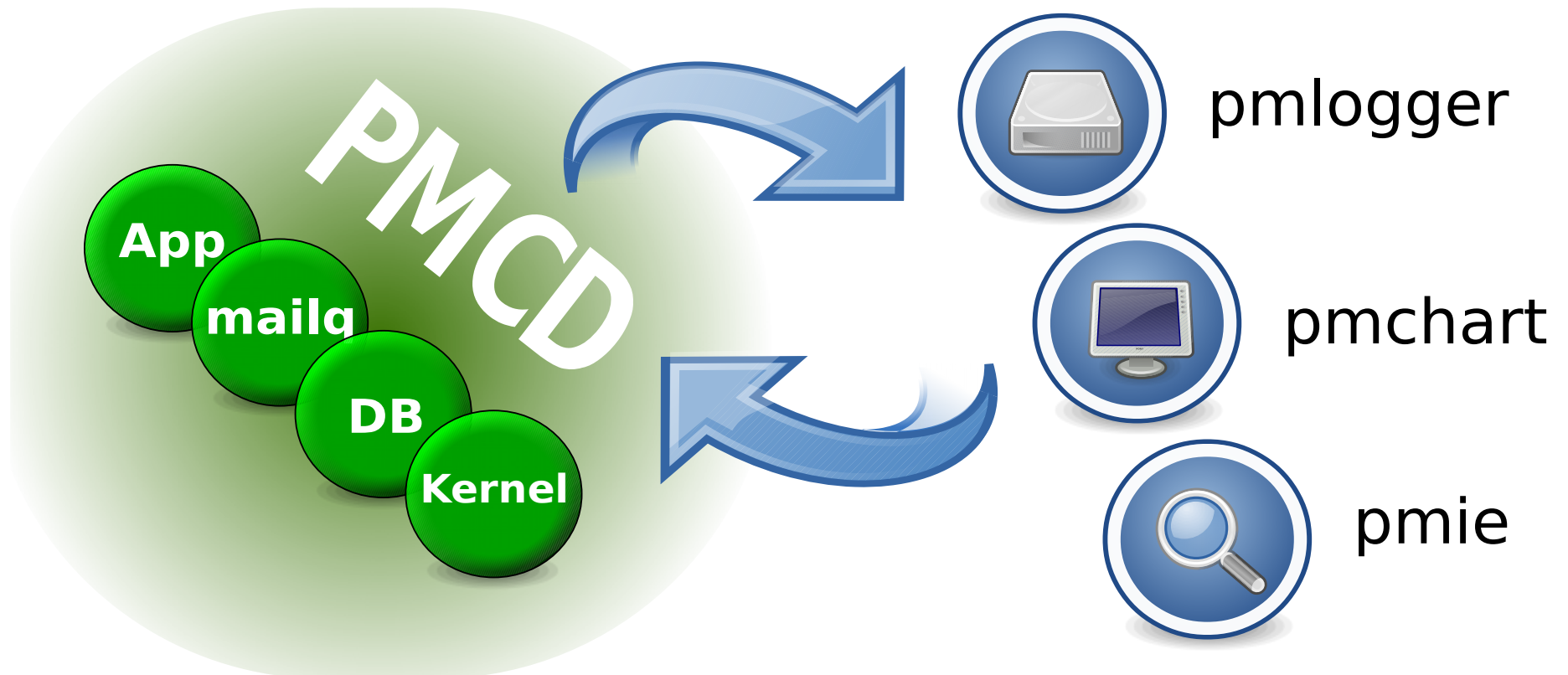
- **Scalable time series ...**

- Async, non-blocking I/O
- Redis STREAMs
  - Indexed, structured time series (v5+)
- Archive discovery
- REST APIs

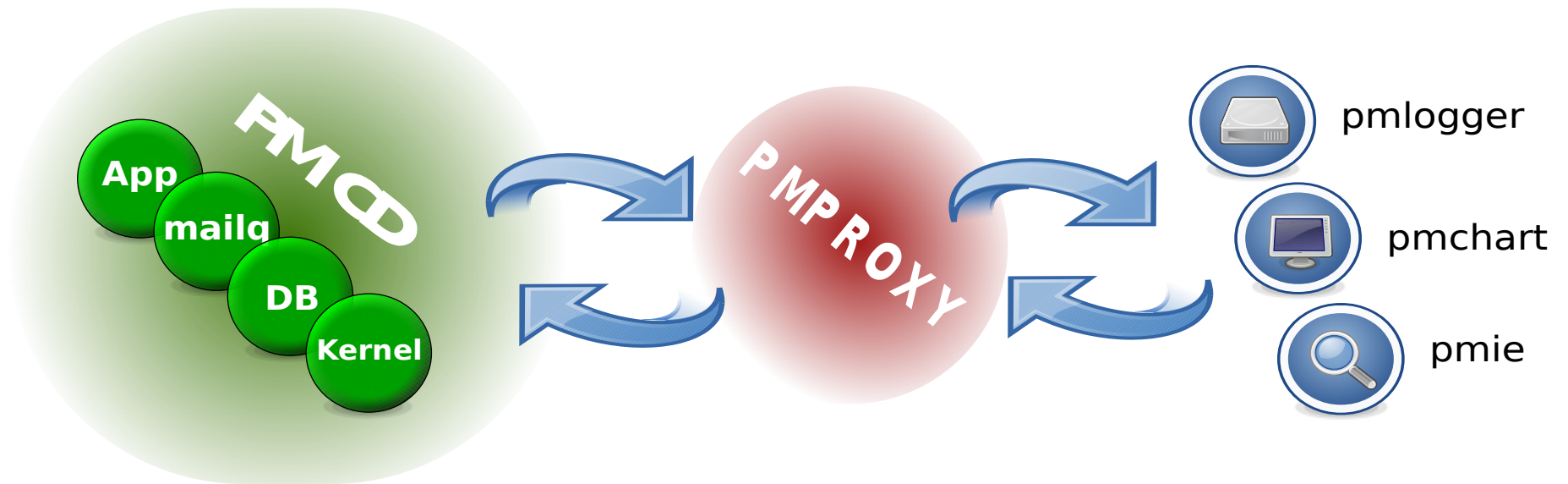


- **Demo**

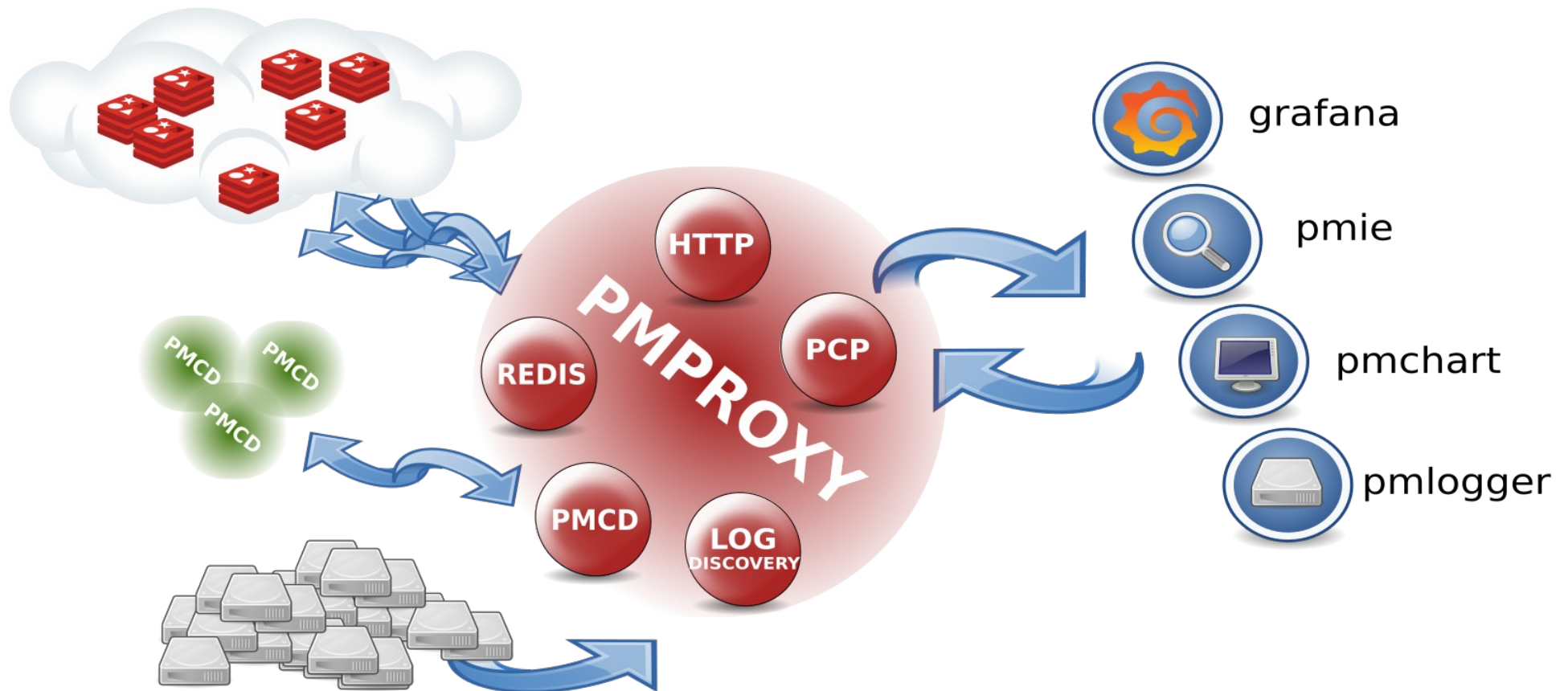
# Recap: pmcd



# Recap: pmpoxy



# Modular pmpoxy





# What's planned ... next 9 months

- **REST APIs**

- Asynchronous, more responsive
- Chunked-transfer-encoding
- Re-package webapps
- HTTPS support



- **Scalable time series**

- Label-based querying 10s-100s of nodes

# What's planned ... next 9 months

- **Process improvements**

- Build, test and release automation
- Presence – continuing the conferences, talks, articles, blog posts ...

- **Improved containers**

- Lightweight, easier-to-use REST API
- Smaller, simpler base PCP container

# What's planned - 2020 & beyond!

- **Integration areas**
  - Grafana datasource features
  - Kubernetes analysis
- **Research areas**
  - Scaling to 1,000+ nodes
  - Query language refinement

# Questions?

<https://pcp.io/roadmap>

