Practical Performance Co-Pilot

https://pcp.io

Nathan Scott

Practical Performance Co-Pilot

- **PCP offers us alot, so …**
- **Let’s keep it practical**
  - Figure it out as we go
  - Live demos all the way!

- **Learn from experience …**
- **Production incident analysis**

Practical Performance Co-Pilot

- **Scenario:**
- **Complex web application**
  - Java app
  - Storage, indexing, database
- **Serving 1000s of concurrent users**
  - Response time measures
  - Platform measures
  - Distributed

Practical Performance Co-Pilot

- **Strip charting tools**
  - pmchart(1)
  - Vector web app
  - Grafana / Graphite web apps

… demo

Practical Performance Co-Pilot

- **Command line analysis tools**
  - pmlogsummary(1)
  - pmdiff(1)

… demo

Practical Performance Co-Pilot

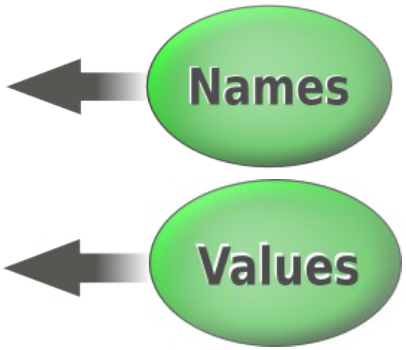
- **Metrics**

  > pminfo –-fetch *disk.dev.read*

  inst [0 or "*sda*"] value *3382299*

  inst [1 or "*sdb*"] value *178421*

  inst [4 or "*sdj*"] value *978245382299*

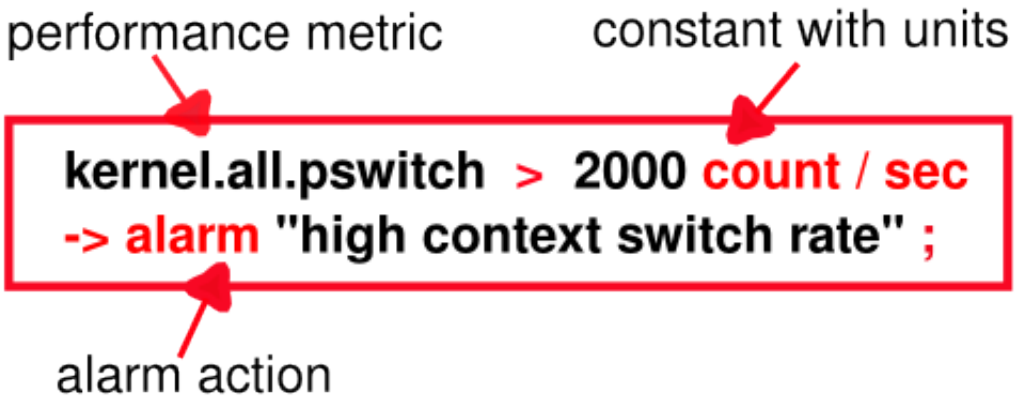


- **Metadata**

  … demo

Practical Performance Co-Pilot

- **Alerting**
  - pmie(1)

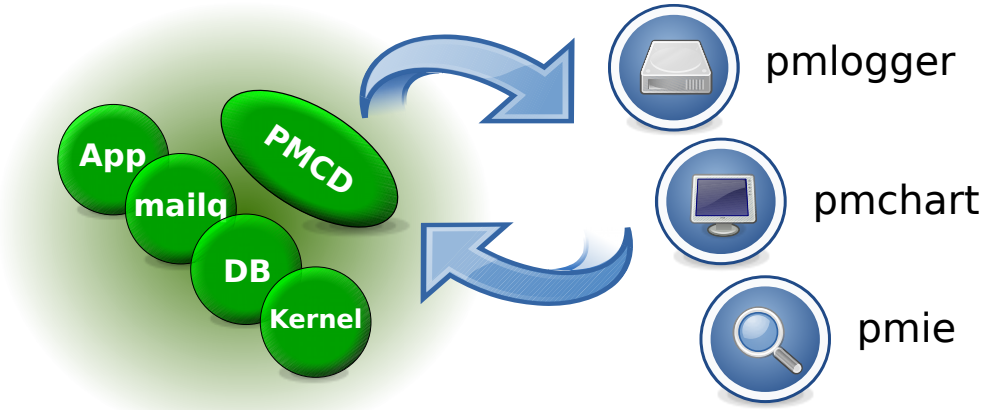


  - Test rules on historical data
  - Operate live 24x7

… demo

Practical Performance Co-Pilot

- **Site Configuration**
  - pmcd(1)
  - pmie(1)
  - pmlogger(1)
  - Distributed, central



… demo

Practical Performance Co-Pilot

- **Command line analysis tools**
  - pmrep(1)
  - pcp-atop(1)
  - pcp-dstat(1)

… demo

Questions?
More demos?

https://pcp.io