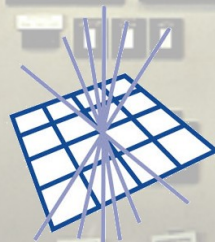


The background image shows a control room with three monitors mounted on a wood-paneled wall. Below the monitors is a large control panel with various buttons, switches, and small displays. Labels on the panel include 'GASLARM NH3 LASER' and 'TURBO AVSTÄLLD'.

MonAMI

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UNIVERSITY
of
GLASGOW



GridPP

UK Computing for Particle Physics



Introducing MonAMI

What's in the latest release

Plans for the future

DEMO!

Aims

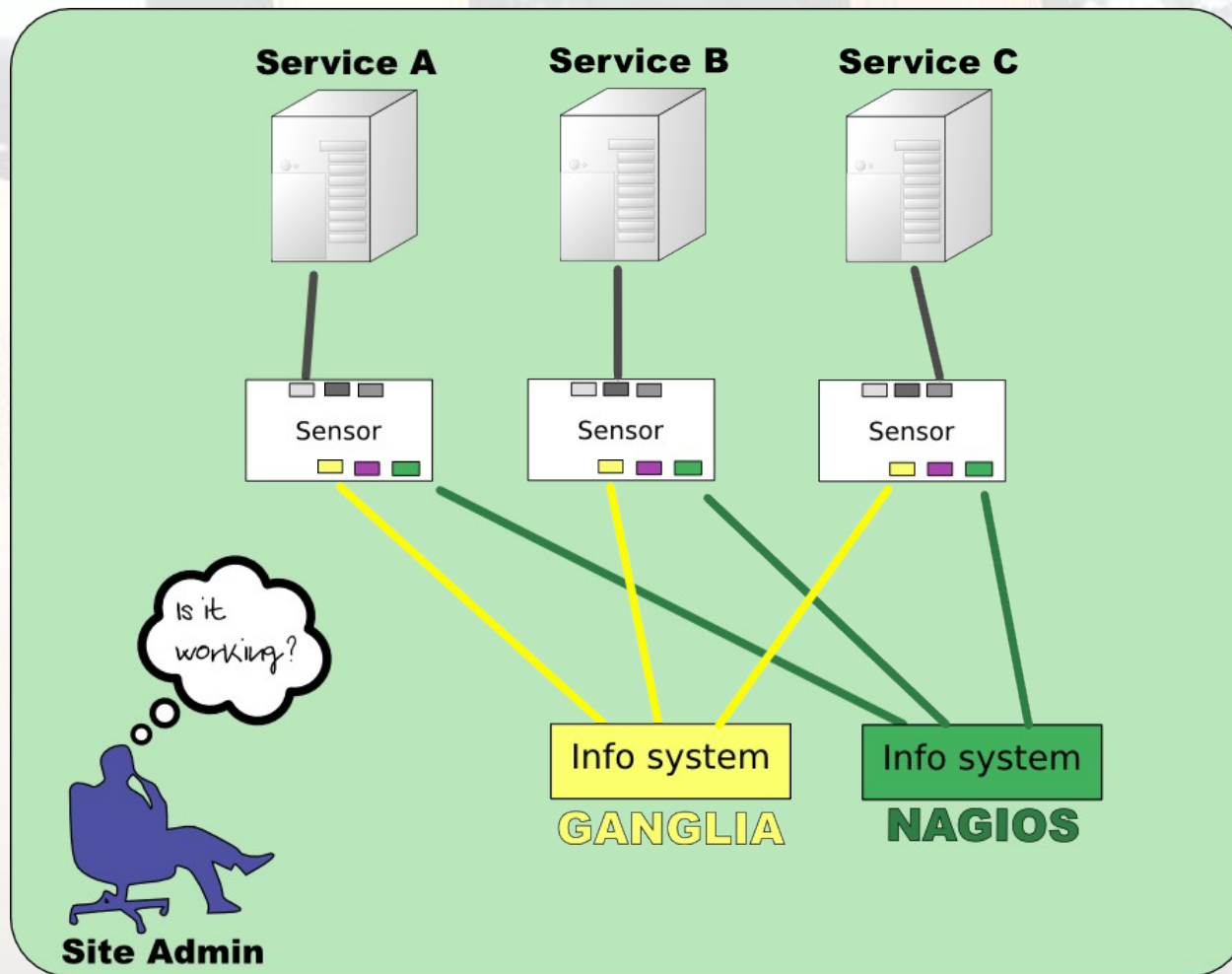
Provide Grid “monitoring information.”

Easy to install, easy to configure.

Works with existing monitoring systems.

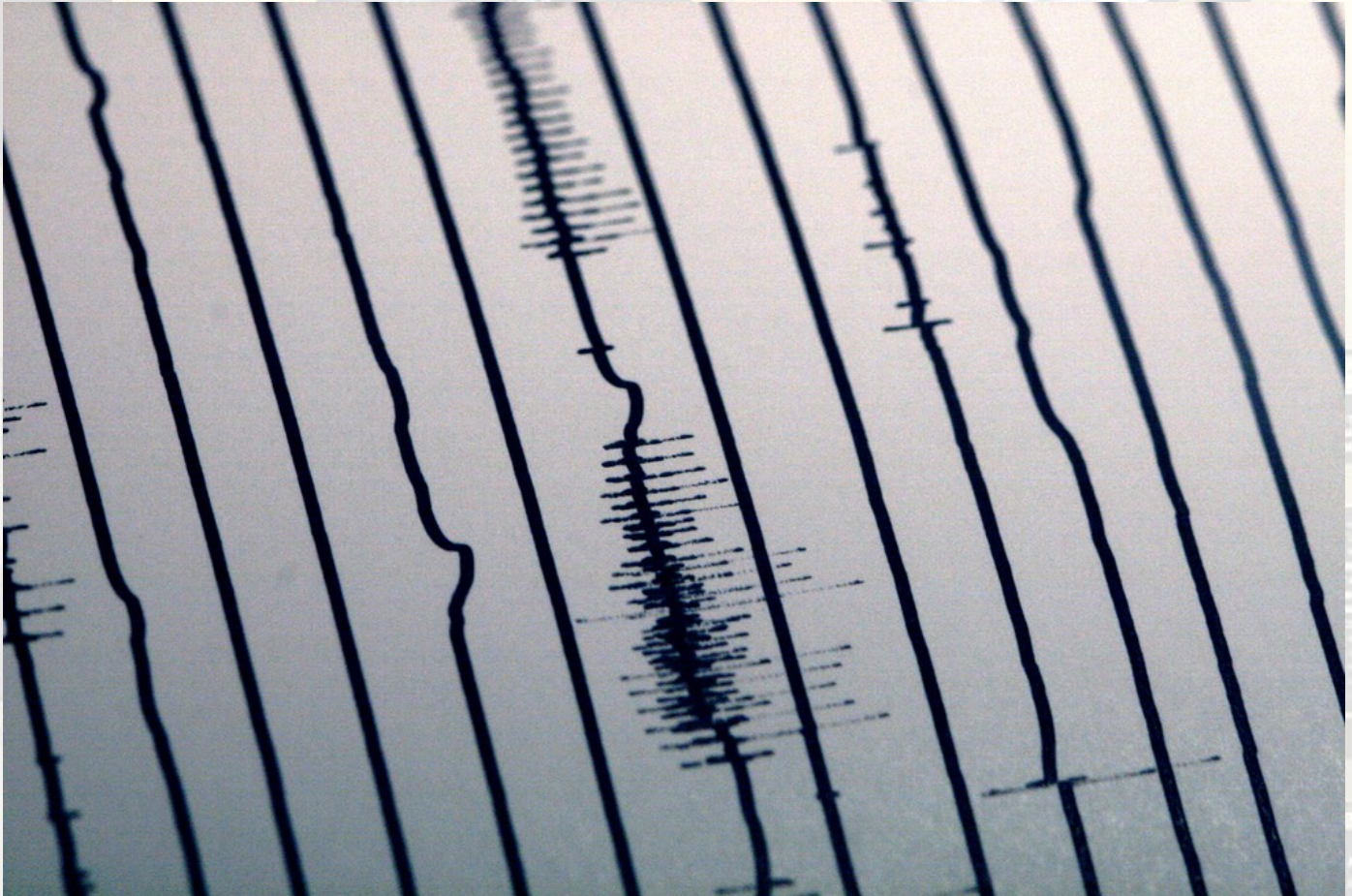
**Extendable: “easy to have it monitor something else”
or “also send data here”.**

Improve gathering





Types of monitoring





Types of monitoring





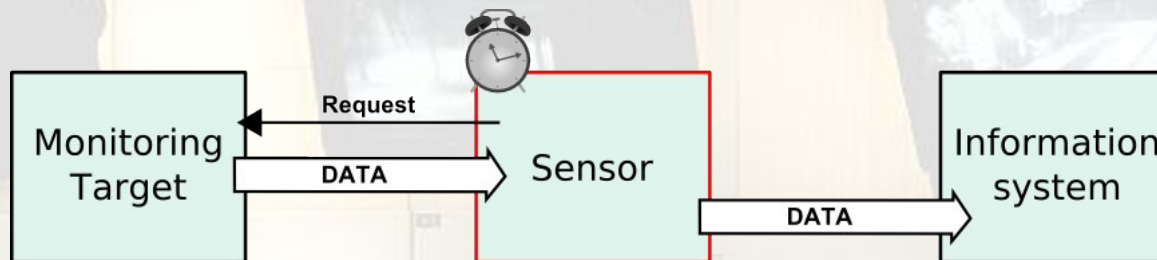
Types of monitoring



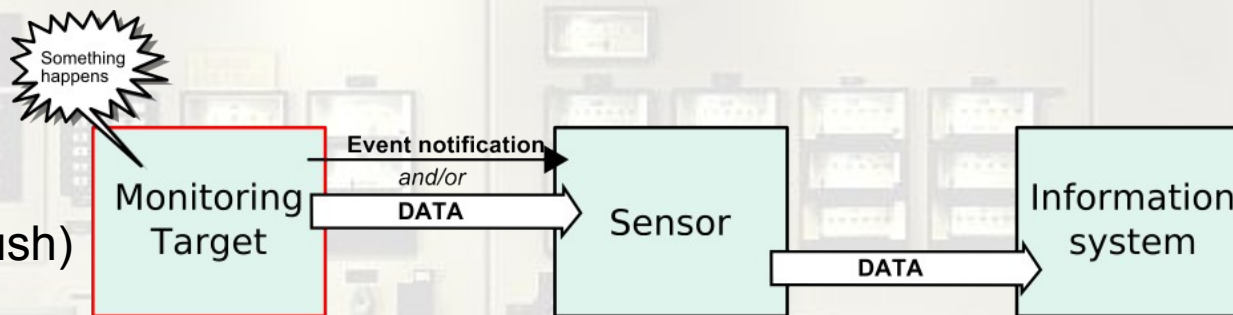


Three basic interactions

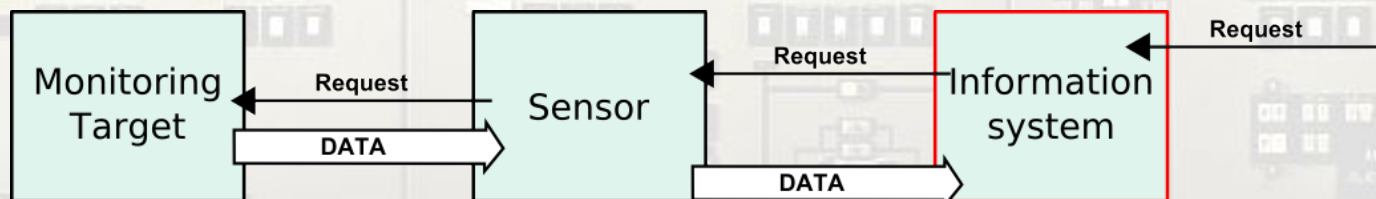
Polling
(synchronous push)



Events
(asynchronous push)

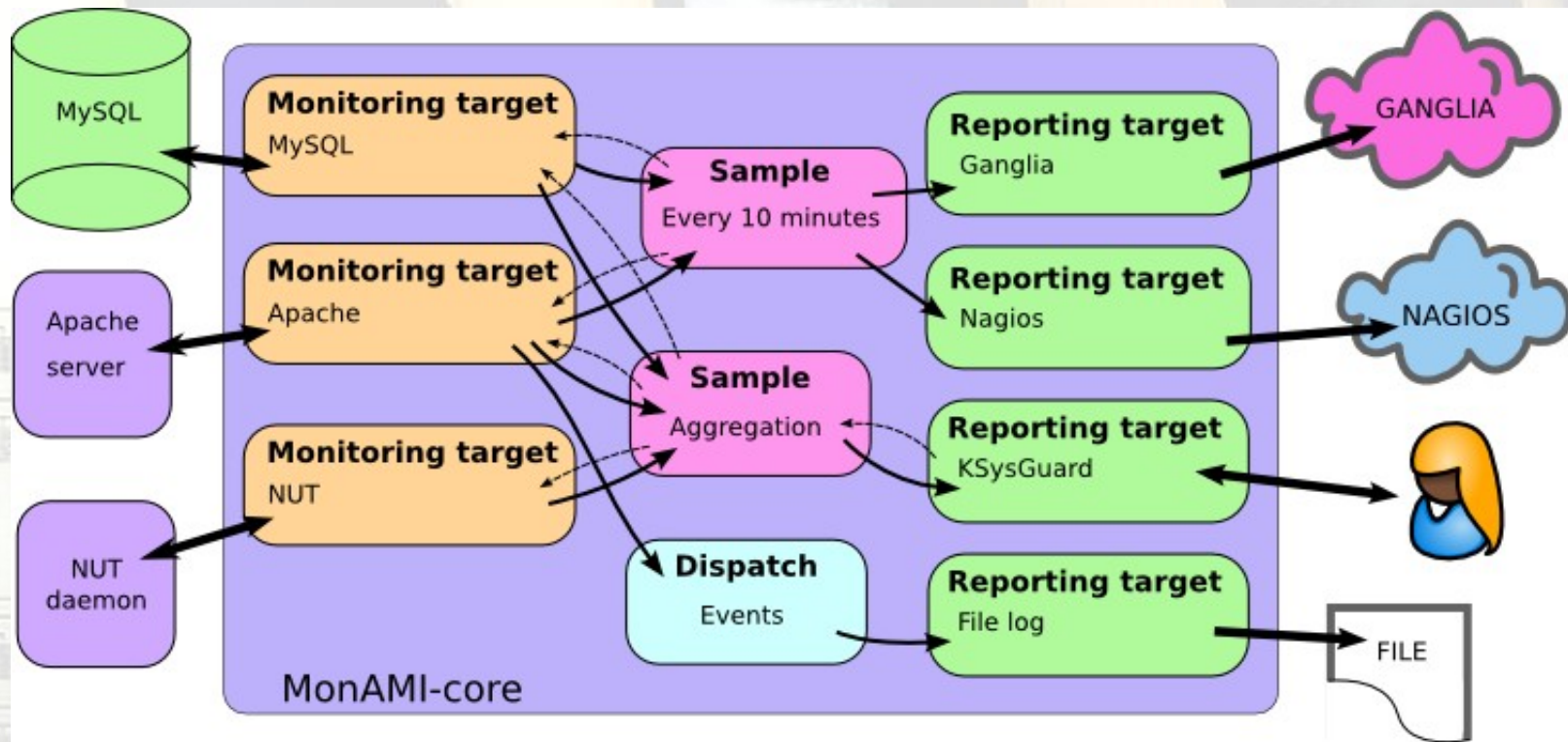


Detailed
Information Request
(asynchronous pull)





Overview





Datatrees

```
Apache
|
+--Workers
| |
| | +--busy: 1
| | |
| | +--idle: 49
| | |
+--Threads
|
| +--waiting: 49
| |
| +--starting: 0
| |
| +--reading: 0
| |
| +--replying: 1
| |
| +--keep-alive: 0
| |
| +--dns: 0
| |
| +--closing: 0
| |
| +--logging: 0
| |
| +--graceful exit: 0
| |
| +--idle: 0
| |
| +--unused: 0
```

- A tree structure of metrics
- Each metric has:
 - name,
 - value,
 - units (optionally),
 - when it was taken,
 - & some other metadata
- A metric is referred to by its path in a datatree.

Plugins

Monitoring:

MySQL, AMGA,
Tomcat, DPM,
Apache, dCache,
NUT, GridFTP.

TCP,
process:

counting,
detailed info,

Reporting:

Ganglia,
Nagios,
MonaLisa,
R-GMA,
File logs.



New in latest release

- Event-based monitoring (apache, GridFTP)
- The “Friendly Documentation”:
 - UserGuide (cross-referenced PDF and HTML),
 - man pages,
 - step-by-step tutorial.
- Improved Nagios support
- R-GMA in secure mode
- map extra data

In the future...

- More data from DPM, dCache, ..
- RSS / Atom feeds
- SAM test results
- Event rate monitoring
- Python API
- ...



Practical demo

