

# *From 1 to 1000 Nodes*

An integration showcase with OpenNMS

*GNU Public License*

# OpenNMS

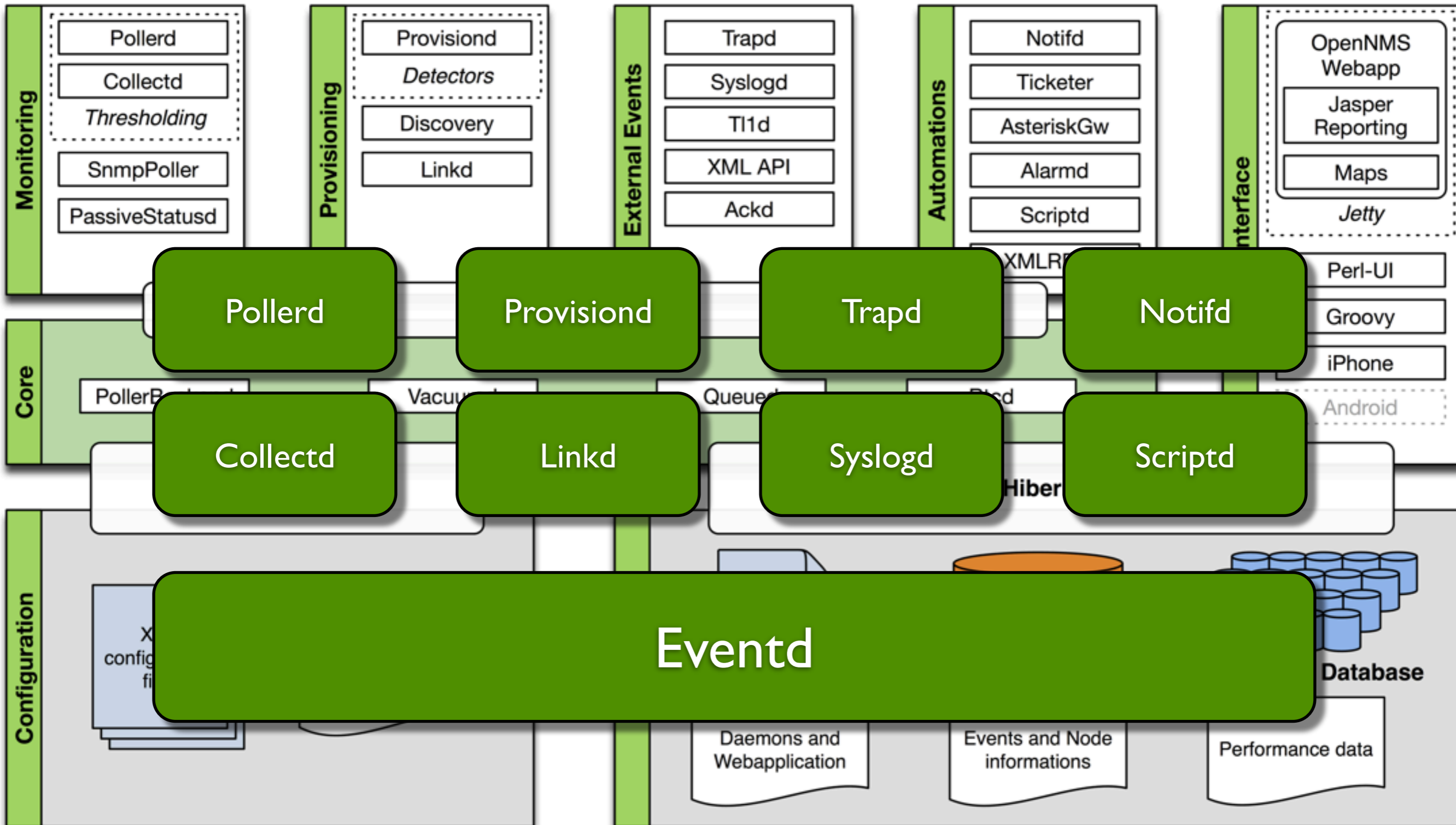
- Monitors everything which can be reached
- Scales up to hundreds of thousands of Nodes & Interfaces
- Integrates with your infrastructure
- Tells you only what's interesting
- ..has an IOS App!



# Architecture

```
root@opennms-eval: /usr/share/opennms/bin — ssh — 64x12
root@opennms-eval:/usr/share/opennms/bin# ./send-event.pl \
> uei.opennms.org/internal/discovery/newSuspect \
> -i 193.99.144.85
root@opennms-eval:/usr/share/opennms/bin#
```

- Read “Enterprise Integration Patterns”
- Everything is about events



# Showcase

- OpenNMS will provision itself based on the Domain Name Service and send a notification

Pollerd

Provisiond

Trapd

Notifd

Collectd

Linkd

Syslogd

Scriptd

Eventd

# Preparation

- Create an empty provisioning Group in OpenNMS (opennms.example.org) [show]
- (DNS) Zone opennms.example.org created
- Allowed zone transfer to OpenNMS Server
- Tested zone transfer with dig:
  - `dig -t axfr @dnsserver \`  
`opennms.example.org`

# Configuration

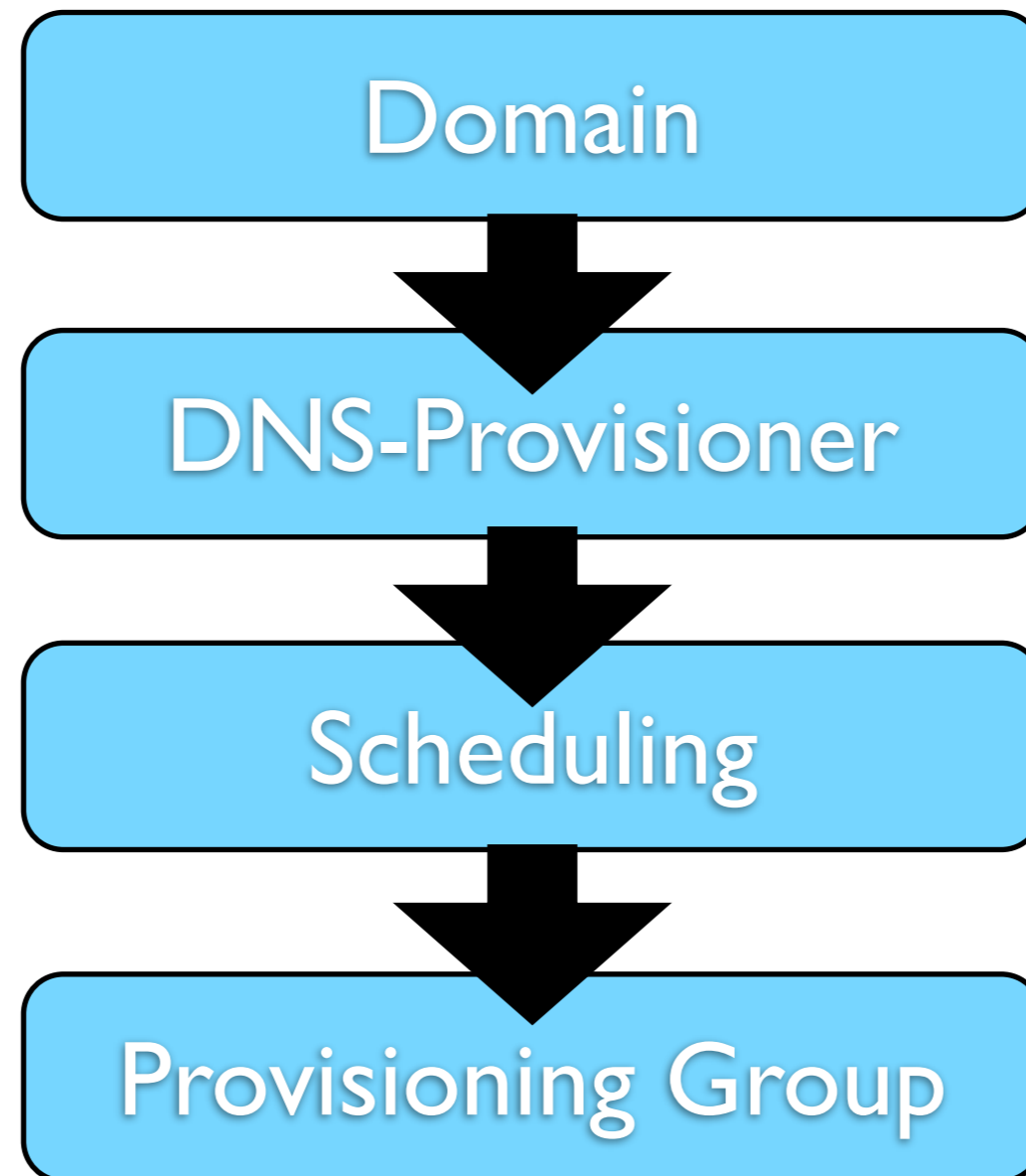
- We want to use provisiond to load all the IPs in our Zone into OpenNMS
- Categories shall be set during import

# *provisiond-configuration.xml*

- `import-name="opennms.example.org"`  
(equals provisioning group created before)
- `..-url-resource = "dns://$server/$domain"`
- `cron-schedule: ..sic.`
- **At this point we could filter with a regex to only import nodes matching the filter**



# Sequence



# Putting it to work

- We trigger a reload of provisiond using an event (send-event.pl..)
- provisiond imports according to schedule
- each host is probed with the configured detectors
- Everything which is discovered is monitored as of now

*Let's break something..*

- To emulate a node which is unreachable, we set a host route to localhost for that node
- [show]

# Questions...?

- We'll be around for the day!

# You want it.

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Whitepapers

[http://www.opennms.org/wiki/White\\_Papers](http://www.opennms.org/wiki/White_Papers)

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Virtual Appliance

<http://www.opennms.org/wiki/Vmware-evaluation>

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Get OpenNMS

<http://www.opennms.org/get-opennms/>

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Get Support

<http://www.opennms.org/get-support/>

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Slides

<http://www.opennms.org/wiki/SWINOG>

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