



Nagios Eventbroker Modules

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Topics

- The Nagios community
- Contributing to and extending Nagios
- How to write a NEB-module in one minute
- The NEB-interface
- Some callbacks
- What NEB-modules can do
- Existing NEB-modules
- How the core can help

The Nagios Community

- Ethan (papa Nagios)
- Email list participants
- Plugin authors
- Module authors
- Companies
- Users
- Wiki editors
- Etc...

Contributing to Nagios

- Patches to core Nagios
- Writing plugins
- Writing NEB-modules
- Hosting Nagios-related sites
- Testing beta features
- Writing HowTo's
- Answering questions on email lists

Module in a Minute

- Observe...

The NEB-interface

- Nagios loads the module
- Nagios runs the module's init function
- The init function sets “hooks” in Nagios
- Something happens in Nagios
- Nagios prods the hook
- The hook works its magic
- Control goes back to Nagios

Some of the callbacks

- Host/service checks
- Notifications
- Downtime start/stop
- Flapping start/stop
- Comments added/deleted/modified
- Timed triggers

What NEB's can do

- *

What NEB's shouldn't do

- Play with signal(2)
- Set alarm(2)
- fork(2)
- Modify Nagios' objects
- Enter infinite loops
- Define non-static functions with conflicting names

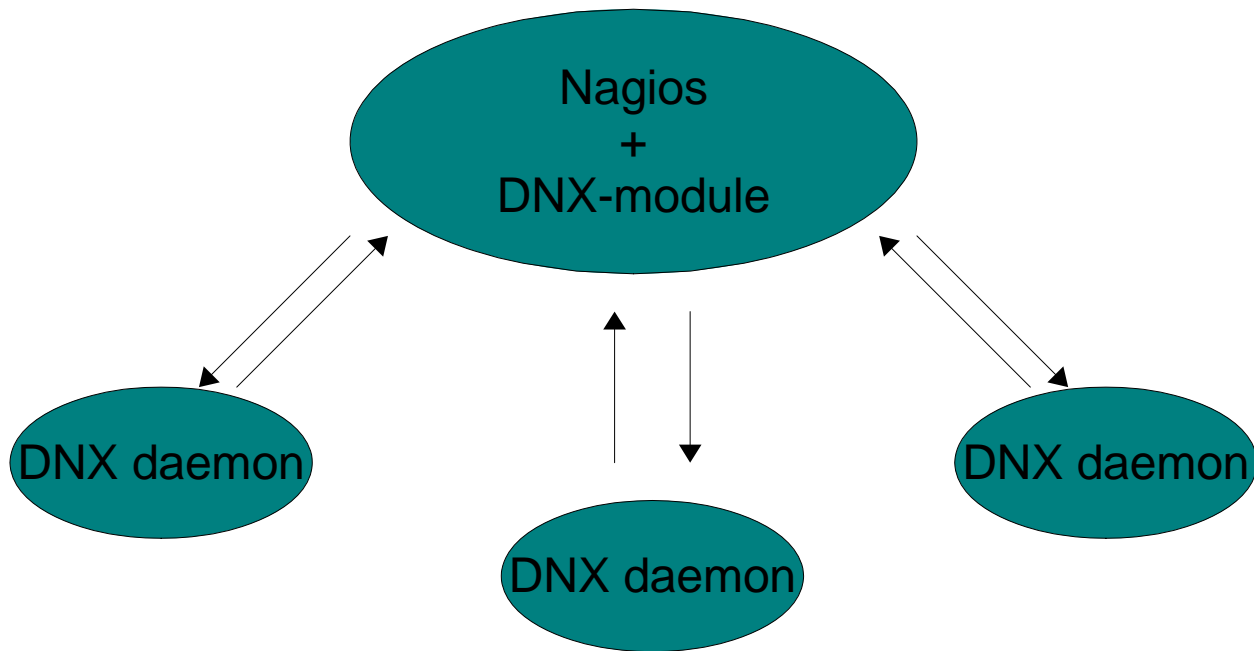
Existing NEB-modules

- DNX - Distributed Nagios Executor
- NDO - Nagios Data Output
- reports-module - database logger
- Merlin - (guess the acronym)
- pnsca - Persistent NSCA sender
- nebsor - Script On Rotate

DNX

- Works with a command queue
- Must have a single master-server
- Can use up to 16380 poller slaves
- Checks are created on master but may be run on any slave
- Single GUI- and notification server
- Loadbalanced
- One place to configure

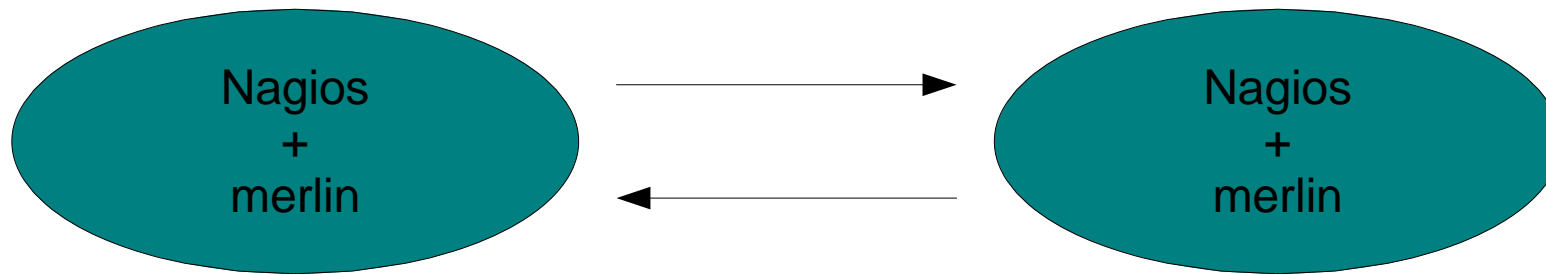
DNX design



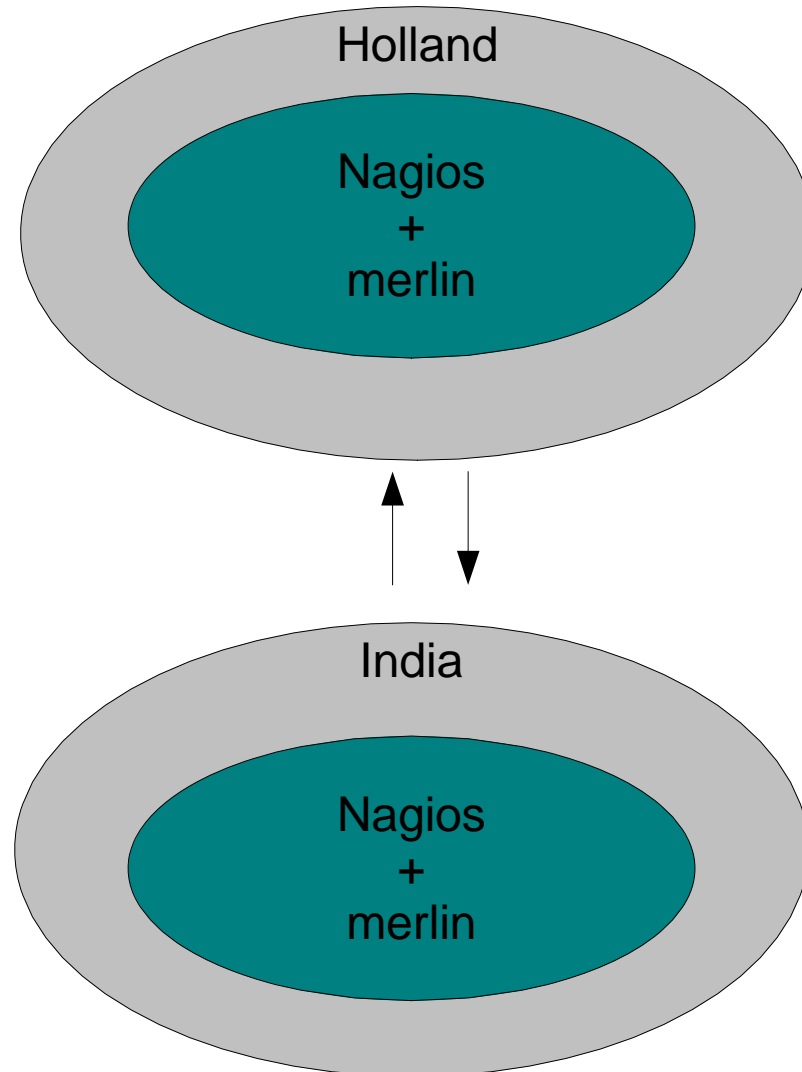
Merlin

- One Nagios installation on every poller
- Loadbalanced
- Multi-tier failover
- Redundancy in every step
- Automatic config synchronization
- Multiple possible GUI- and notification servers

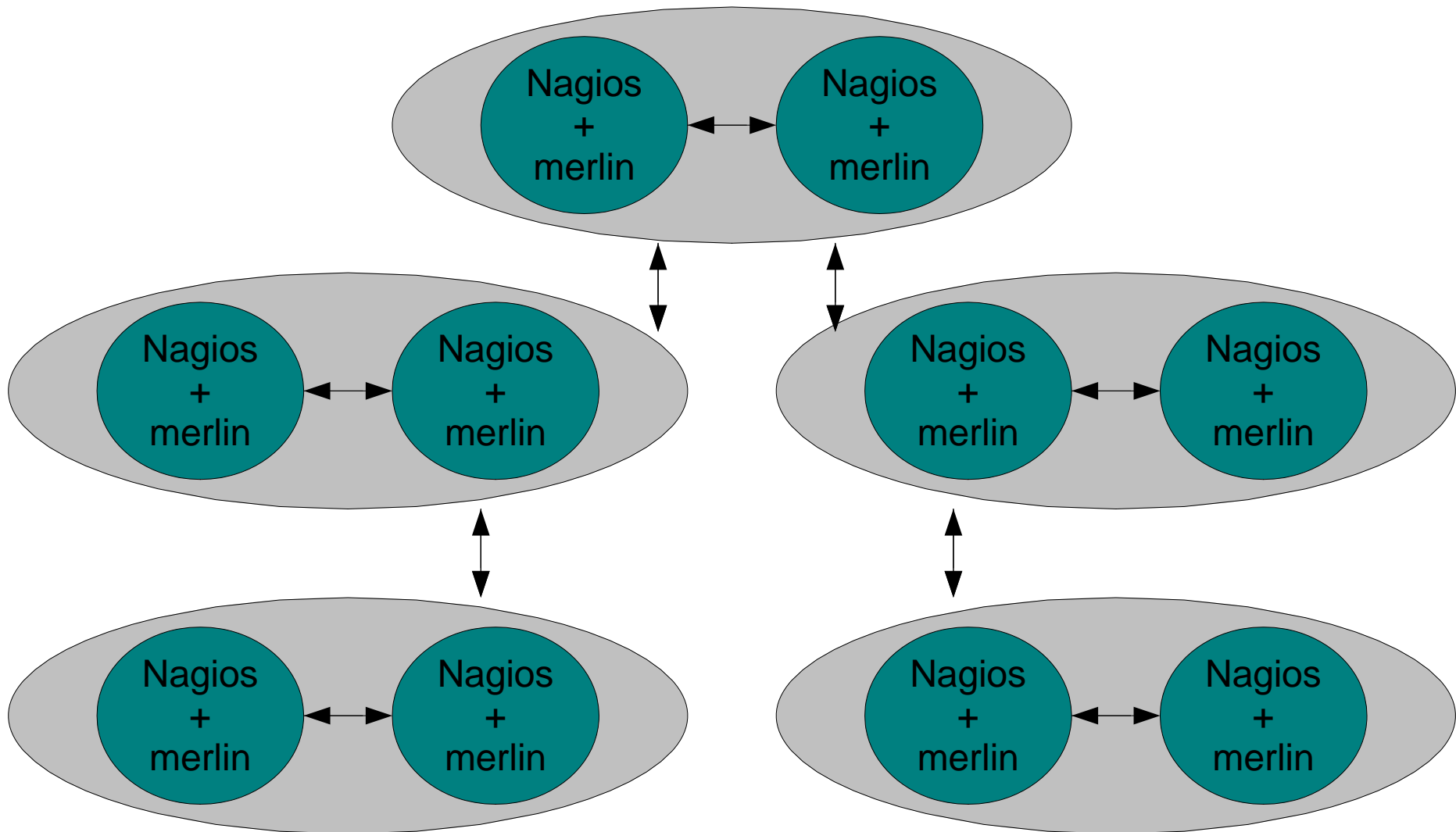
Merlin design



Merlin design, v2



Merlin design, v3



How Nagios can help

- Utility API's
 - Hashes, linked lists, etc, etc...
 - Config reading
 - Logging
- Solid API's for modifying objects
- External commands
- Let modules hijack core functionality
- More module 'types' (LUA, cfgparsers)