Passive Monitoring Solutions For Remote Networks

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Topics

- Difficulties with Remote Networks
- Firewall Challenges
- Types of Monitoring Active vs. Passive
- Possible Solutions
 - Nagios Remote Data Sender (NRDS)
 - Nagios Reflector
- Q & A / Discussion



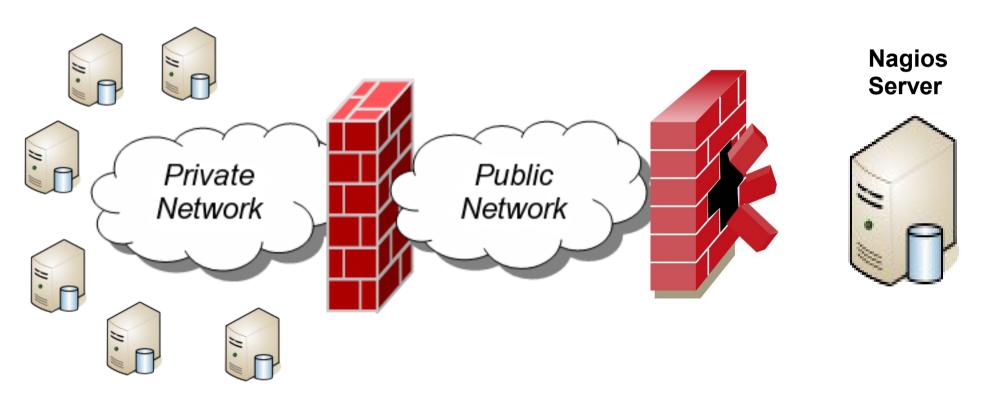
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Difficulties with Remote Networks

- Active Checks
 - Need Access through Firewall
 - Port forwarding
 - Multiple levels of NAT/firewall to go through
 - What port goes to which system?
 - What about Laptops with Dynamic IP?
- Passive Checks
 - Every monitoring change requires updating config and plugin on each machine monitored
 - Nagios server need to be reachable from remote system



Pitfalls with Remote Networks



Unlocking The Power of Passive Monitoring With NRDS





What the heck is NRDS?

Nagios Remote Data Sender

- Nagios
- Remote
- Data
- Sender



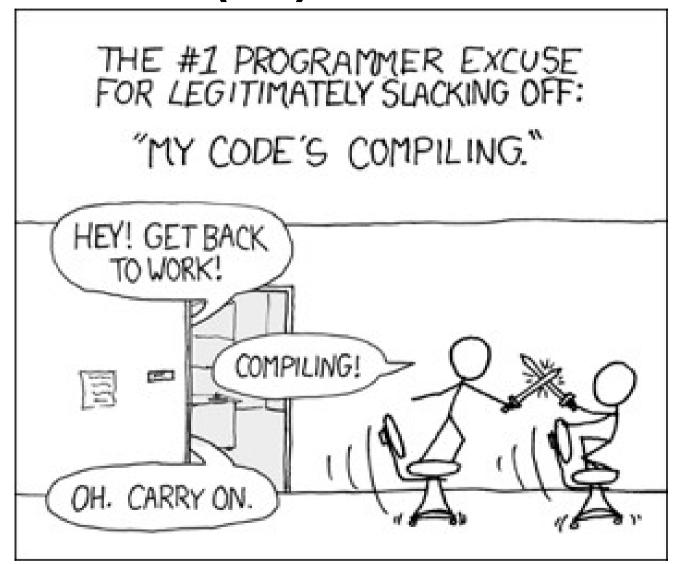
Key Benefits of NRDS

- Central Configuration
 - Deploy once
 - Automatic updates
- Plugin Deployment
 - All plugins on one server
- Shared Configurations
 - Change config, deploy to all
 - Including needed plugins!
- Multiple Platforms and Architecture





How do(es) NRDS work?

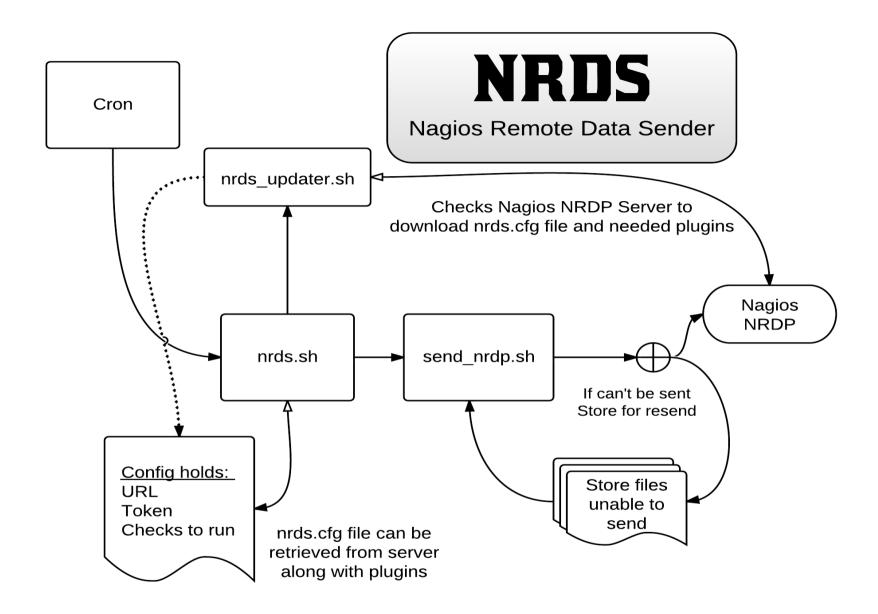




What Makes NRDS tick?

- Primarily Nagios XI
 - NRDP (NRDS adds on to NRDP)
- NRDS
 Nagios Remote Data Sender
- NRDS Config Manager Component
- Plugin Cache in /usr/local/nrdp/plugins
- Easy Addition Using XI's Unconfigured Objects
- Could be used with Core
 - Still need NRDP
 - Need to modify configs manually
- Client-side
 - Cron/Scheduled Tasks
 - *nix/Mac OS/X version use bash & curl/wget







Pros & Cons of Passive Checks

Advantages



- No Need to Open Firewalls to Clients
- Reduce Nagios Server Load
- Central Config Management
- Central Plugin Management
- Easy setup, no compiling on every server

Disadvantages

- Nagios doesn't control when checks happen
- Some plugins have pre-reqs
- Nagios server needs to be accessible from remote system



Pros & Cons of Passive Checks

NRDS Links

NRDS
Nagios Remote Data Sender

- Pre-installed in Nagios XI 2012
- Component Download
- Passive Monitoring with NRDS Documentation
- Tutorial



Using the New Nagios Reflector to Monitor Remote Machines





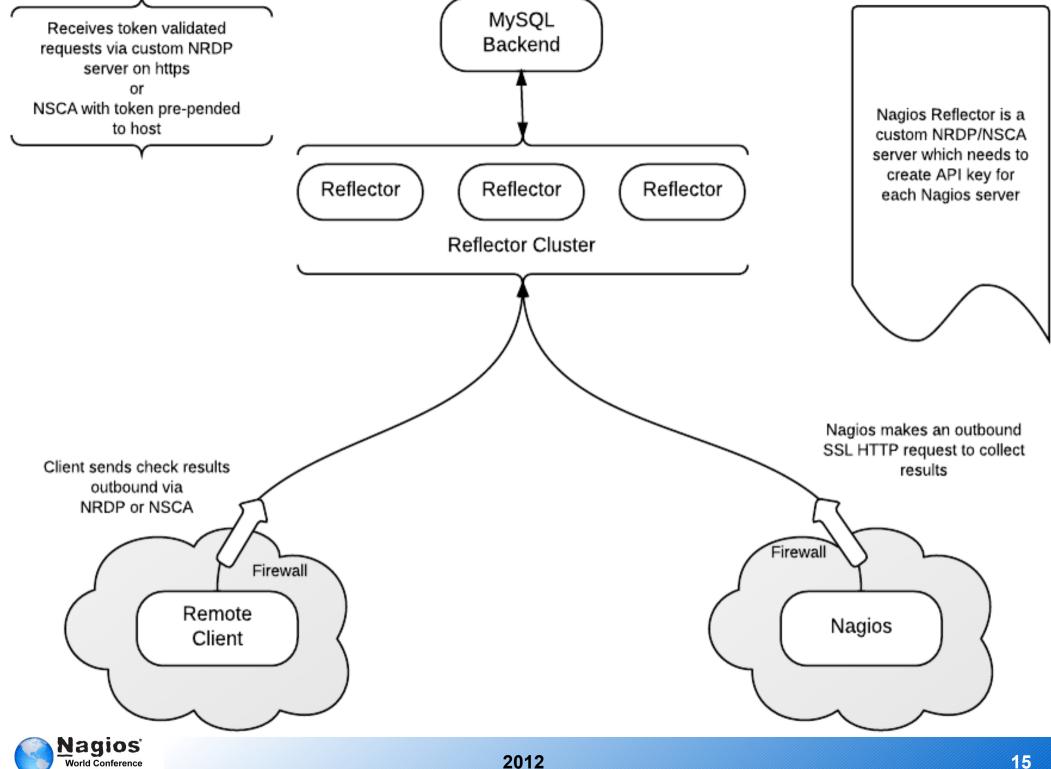
What is the Nagios Reflector?

Just Released



- Nagios Enterprise Hosted Results
 - Clients send data to Reflector
 - Nagios server Utilizes new check_reflector.py plugin to collect results via SSL HTTP
- Useful for Core and Nagios XI
 - Can accept NRDP or NSCA data
 - Zero Firewall setup, all connections outbound
- Conference attendees are the first people allowed access to Nagios Reflector





2012 World Conference **North America**

Pros & Cons of Nagios Reflector

Advantages



- No Need to Open Firewalls (either)
- Reduce Nagios Server Load
- Works with dynamic IP assignments
- Can pull data to multiple Nagios Servers
- Integration with NRDS (Roadmap)

Disadvantages

- Nagios doesn't control when checks happen
- Clients & Nagios need Internet Access
- Some data is sent to remote network



Pros & Cons of Nagios Reflector

Reflector Links



- https://reflector.nagios.com
- Using Nagios Reflector with Nagios XI
- Using Nagios Reflector with Nagios Core
- Nagios XI Reflector Wizard
- Reflector Plugin



Contact Us

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Thank You!

Thank you!

Additional Questions?

http://support.nagios.com/forum/viewtopic.php?f=24&t=7484

