Network Monitoring & Management: Nagios

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UNIVERSITY OF OREGON

NSRC Network Startup Resource Center

Introduction

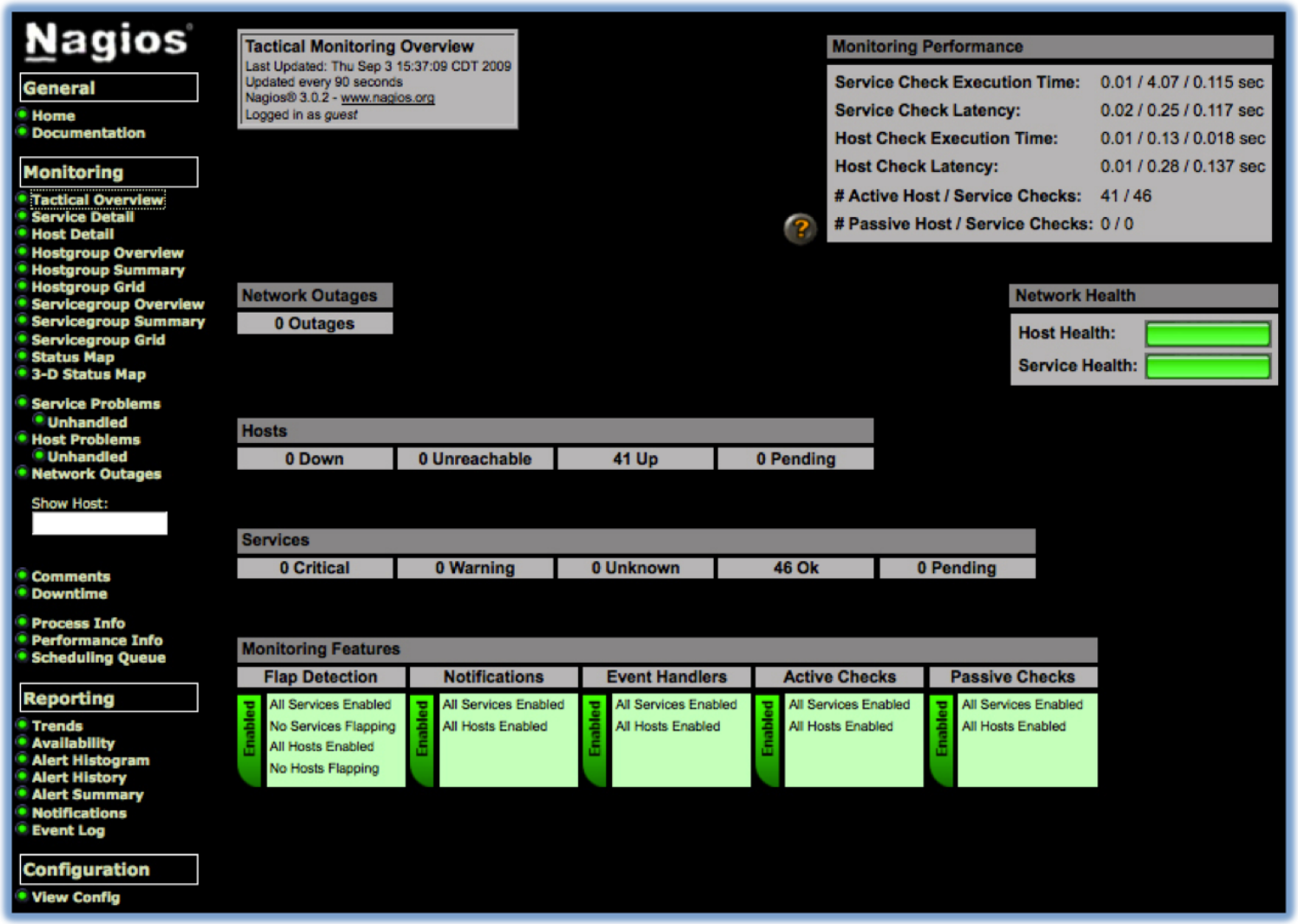
- Possibly the most used open source network monitoring software
- Web interface for viewing status, browsing history, scheduling downtime etc
- Sends out alerts via E-mail. Can be configured to use other mechanisms, e.g. SMS

Introduction

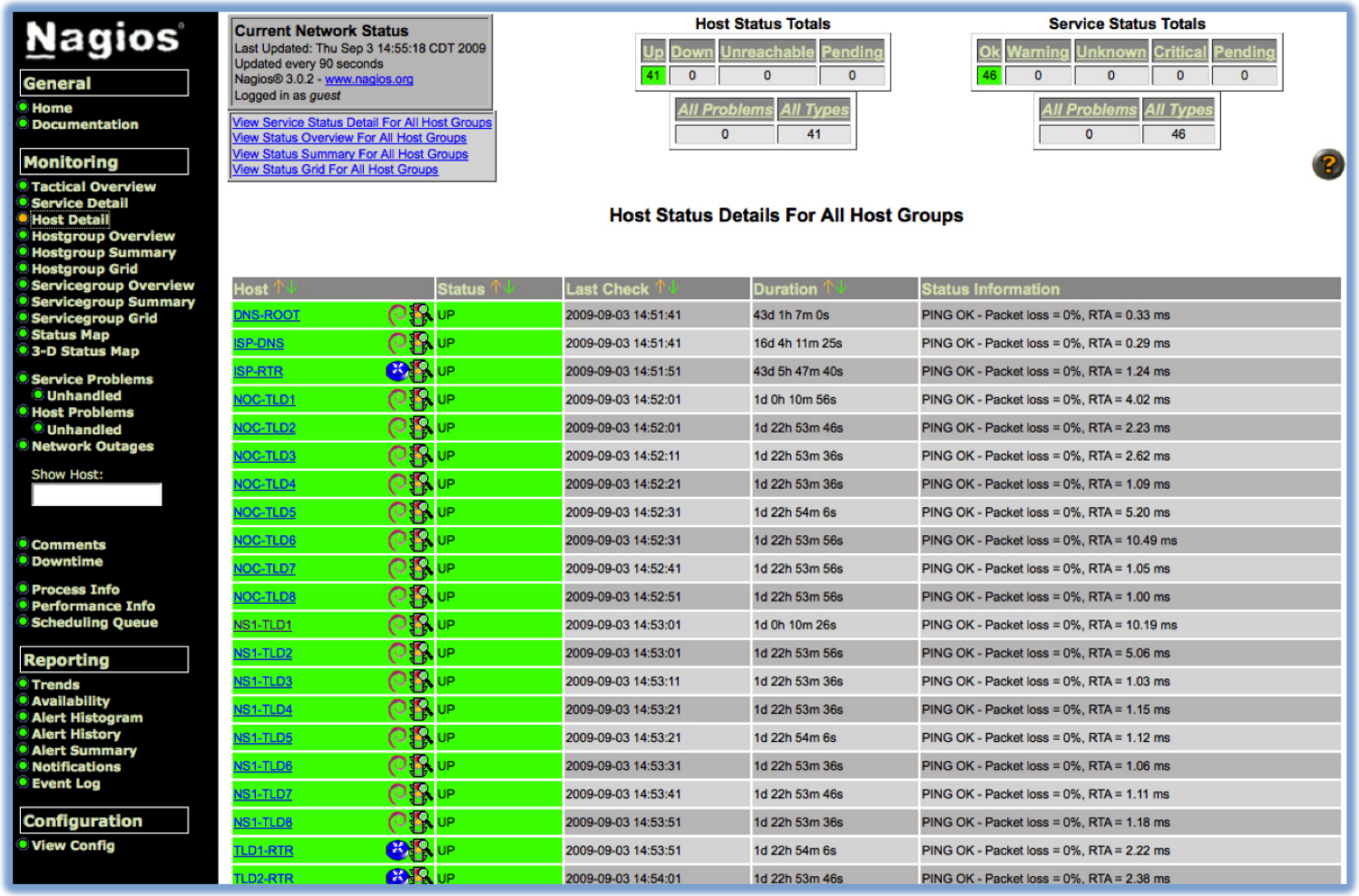
Nagios actively monitors the availability

- of Hosts (devices)
- and Services

Nagios: General View



Host Detail View



Nagios

General
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- Documentation

Monitoring
- Tactical Overview
- Service Detail
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- Servicegroup Overview
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Show Host:

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Reporting
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- Availability
- Alert Histogram
- Alert History
- Alert Summary
- Notifications
- Event Log

Configuration
- View Config

Current Network Status
Last Updated: Thu Sep 3 14:55:18 CDT 2009
Updated every 90 seconds
Nagios® 3.0.2 - www.nagios.org
Logged in as *guest*

View Service Status Detail For All Host Groups
View Status Overview For All Host Groups
View Status Summary For All Host Groups
View Status Grid For All Host Groups

Host Status Totals

Up	Down	Unreachable	Pending
41	0	0	0

All Problems	All Types
0	41

Service Status Totals

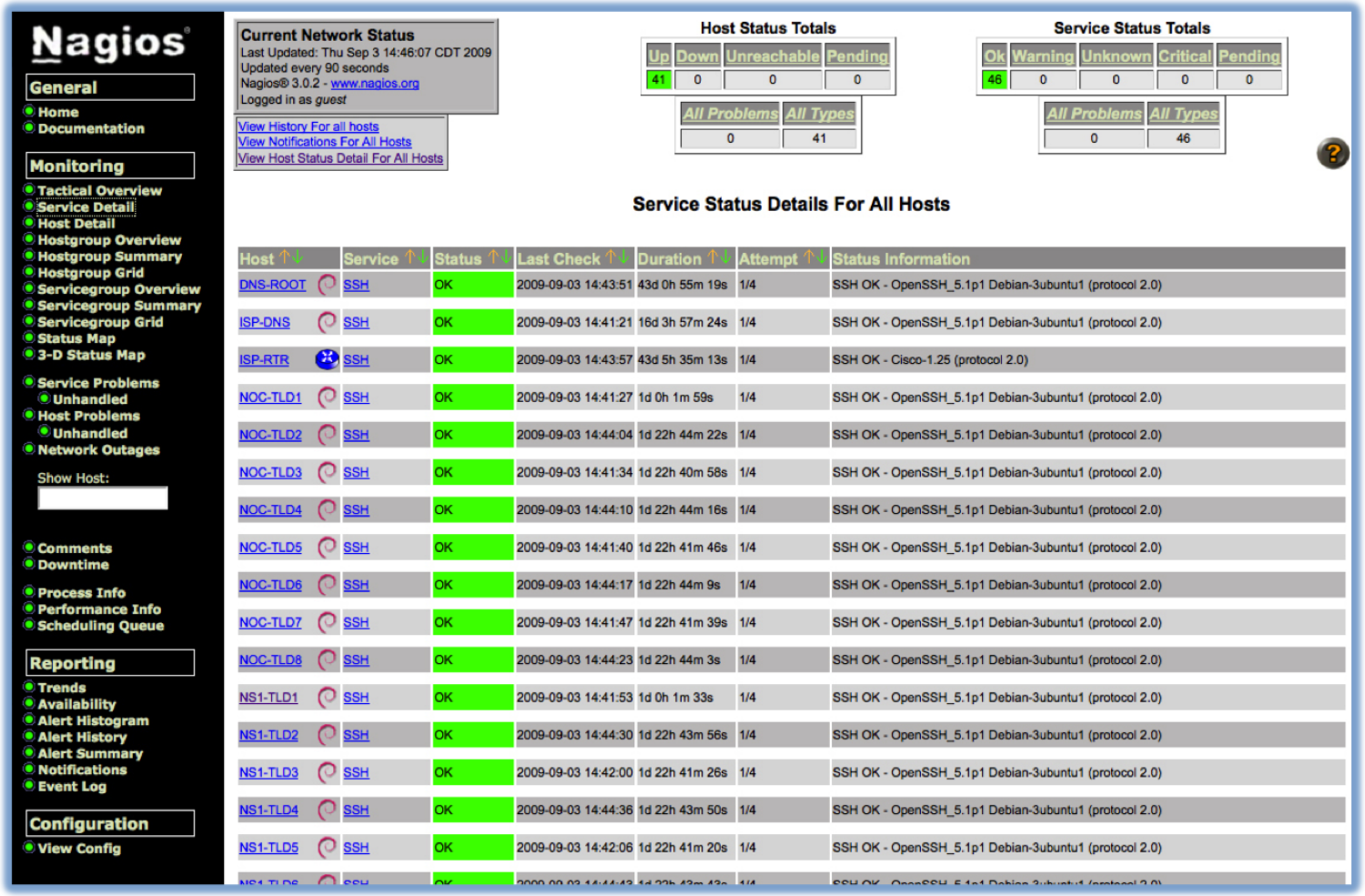
Ok	Warning	Unknown	Critical	Pending
46	0	0	0	0

All Problems	All Types
0	46

Host Status Details For All Host Groups

Host	Status	Last Check	Duration	Status Information
DNS-ROOT	UP	2009-09-03 14:51:41	43d 1h 7m 0s	PING OK - Packet loss = 0%, RTA = 0.33 ms
ISP-DNS	UP	2009-09-03 14:51:41	16d 4h 11m 25s	PING OK - Packet loss = 0%, RTA = 0.29 ms
ISP-RTR	UP	2009-09-03 14:51:51	43d 5h 47m 40s	PING OK - Packet loss = 0%, RTA = 1.24 ms
NOC-TLD1	UP	2009-09-03 14:52:01	1d 0h 10m 56s	PING OK - Packet loss = 0%, RTA = 4.02 ms
NOC-TLD2	UP	2009-09-03 14:52:01	1d 22h 53m 46s	PING OK - Packet loss = 0%, RTA = 2.23 ms
NOC-TLD3	UP	2009-09-03 14:52:11	1d 22h 53m 36s	PING OK - Packet loss = 0%, RTA = 2.62 ms
NOC-TLD4	UP	2009-09-03 14:52:21	1d 22h 53m 36s	PING OK - Packet loss = 0%, RTA = 1.09 ms
NOC-TLD5	UP	2009-09-03 14:52:31	1d 22h 54m 6s	PING OK - Packet loss = 0%, RTA = 5.20 ms
NOC-TLD6	UP	2009-09-03 14:52:31	1d 22h 53m 56s	PING OK - Packet loss = 0%, RTA = 10.49 ms
NOC-TLD7	UP	2009-09-03 14:52:41	1d 22h 53m 56s	PING OK - Packet loss = 0%, RTA = 1.05 ms
NOC-TLD8	UP	2009-09-03 14:52:51	1d 22h 53m 56s	PING OK - Packet loss = 0%, RTA = 1.00 ms
NS1-TLD1	UP	2009-09-03 14:53:01	1d 0h 10m 26s	PING OK - Packet loss = 0%, RTA = 10.19 ms
NS1-TLD2	UP	2009-09-03 14:53:01	1d 22h 53m 56s	PING OK - Packet loss = 0%, RTA = 5.06 ms
NS1-TLD3	UP	2009-09-03 14:53:11	1d 22h 53m 36s	PING OK - Packet loss = 0%, RTA = 1.03 ms
NS1-TLD4	UP	2009-09-03 14:53:21	1d 22h 53m 36s	PING OK - Packet loss = 0%, RTA = 1.15 ms
NS1-TLD5	UP	2009-09-03 14:53:21	1d 22h 54m 6s	PING OK - Packet loss = 0%, RTA = 1.12 ms
NS1-TLD6	UP	2009-09-03 14:53:31	1d 22h 53m 36s	PING OK - Packet loss = 0%, RTA = 1.06 ms
NS1-TLD7	UP	2009-09-03 14:53:41	1d 22h 53m 46s	PING OK - Packet loss = 0%, RTA = 1.11 ms
NS1-TLD8	UP	2009-09-03 14:53:51	1d 22h 53m 36s	PING OK - Packet loss = 0%, RTA = 1.18 ms
TLD1-RTR	UP	2009-09-03 14:53:51	1d 22h 54m 6s	PING OK - Packet loss = 0%, RTA = 2.22 ms
TLD2-RTR	UP	2009-09-03 14:54:01	1d 22h 53m 46s	PING OK - Packet loss = 0%, RTA = 2.38 ms

Service Detail View



Features

Utilizes topology to determine dependencies.

- Differentiates between what is *down* vs. what is *unreachable*. Avoids running unnecessary checks and sending redundant alarms

Allows you to define how to send notifications based on combinations of:

- Contacts and lists of contacts
- Devices and groups of devices
- Services and groups of services
- Defined hours by persons or groups.
- The state of a service.

Plugins

Plugins are used to verify services and devices:

- Nagios architecture is simple enough that writing new plugins is fairly easy in the language of your choice.
- There are ***many, many*** plugins available (thousands).
  - ✓ http://exchange.nagios.org/
  - ✓ http://nagiosplugins.org/

Pre-installed Plugins for Ubuntu

/usr/lib/nagios/plugins

```
nsrc@s1:~$ ls /usr/lib/nagios/plugins
check_apt      check_disk      check_hpjd          check_jabber    check_mysql        check_ntp_time  check_real       check_ssh    check_wave
check_breeze   check_disk_smb  check_http          check_ldap      check_mysql_query  check_nwstat    check_rpc        check_ssmtp  negate
check_by_ssh   check_dns       check_icmp          check_ldaps     check_nagios       check_oracle    check_rta_multi  check_swap   urlize
check_clamd    check_dummy     check_ide_smart     check_load      check_nntp         check_overcr    check_sensors    check_tcp    utils.pm
check_cluster  check_file_age  check_ifoperstatus  check_log       check_nntps        check_pgsql     check_simap      check_time   utils.sh
check_dbi      check_flexlm    check_ifstatus      check_mailq     check_nt           check_ping      check_smtp       check_udp
check_dhcp     check_ftp       check_imap          check_mrtg      check_ntp          check_pop       check_snmp       check_ups
check_dig      check_host      check_ircd          check_mrtgtraf  check_ntp_peer     check_procs     check_spop       check_users
nsrc@s1:~$
```

/etc/nagios-plugins/config

```
nsrc@s1:~$ ls /etc/nagios-plugins/config/
apt.cfg     disk-smb.cfg  fping.cfg  http.cfg      mail.cfg   netware.cfg  pgsql.cfg   real.cfg     tcp_udp.cfg
breeze.cfg  dns.cfg       ftp.cfg    ifstatus.cfg  mailq.cfg  news.cfg     ping.cfg    rpc-nfs.cfg  telnet.cfg
dhcp.cfg    dummy.cfg     games.cfg  ldap.cfg      mrtg.cfg   nt.cfg       procs.cfg   snmp.cfg     users.cfg
disk.cfg    flexlm.cfg    hppjd.cfg  load.cfg      mysql.cfg  ntp.cfg      radius.cfg  ssh.cfg
nsrc@s1:~$
```

How Checks Work

- Periodically Nagios calls a plugin to test the state of each service. Possible responses are:
  - OK
  - WARNING
  - CRITICAL
  - UNKNOWN
- If a service is not OK it goes into a “soft” error state. After a number of retries (default 3) it goes into a “hard” error state. At that point an alert is sent.
- You can also trigger external event handlers based on these state transitions

How Checks Work (Continued)

Parameters

- Normal checking interval
- Retry interval (i.e. when not OK)
- Maximum number of retries
- Time period for performing checks
- Time period for sending notifications

Scheduling

- Nagios spreads its checks throughout the time period to even out the workload
- Web UI shows when next check is scheduled

Hierarchy: The Concept of Parents

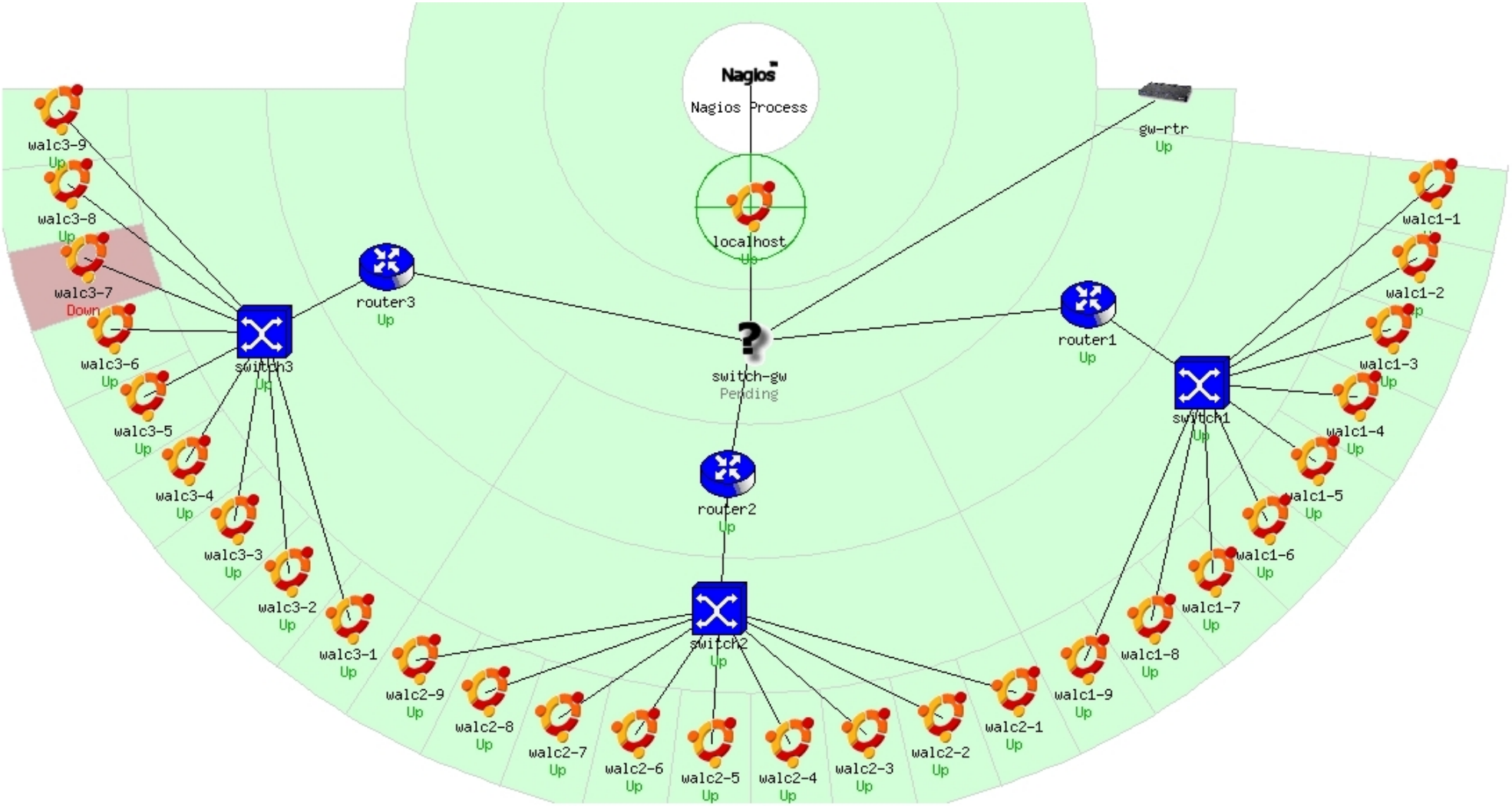
Hosts can have parents:

- The parent of a PC connected to a switch would be the switch.
- Allows us to specify the dependencies between devices.
- Avoids sending alarms when parent does not respond.
- A node can have multiple parents (dual homed).

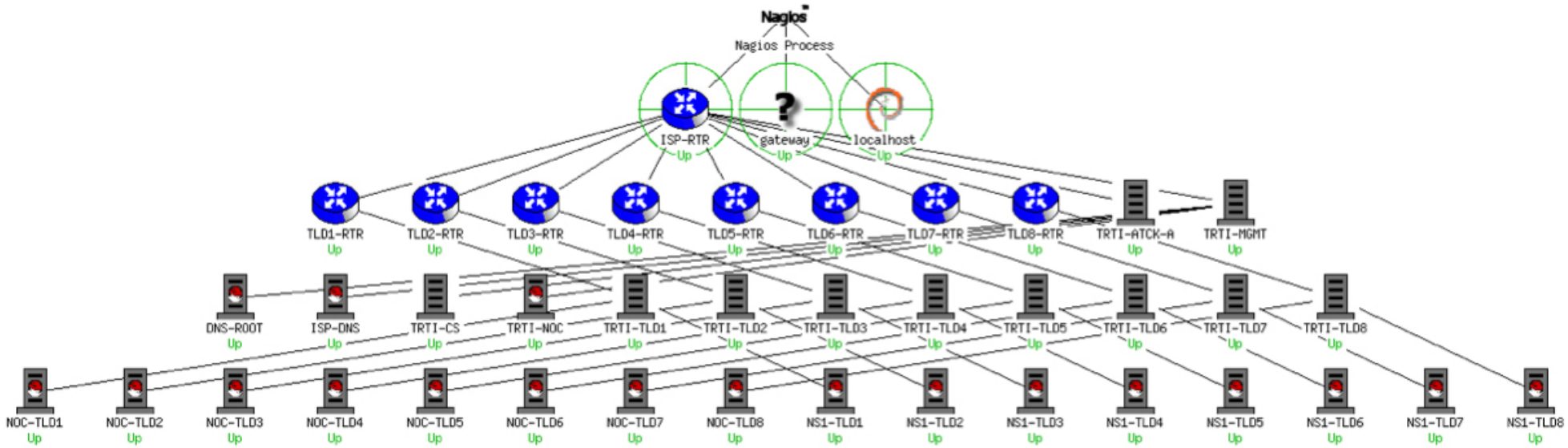
Network Viewpoint

- Where you locate your Nagios server will determine your point of view of the network.
- The Nagios server becomes the “root” of your dependency tree

Network Viewpoint



Collapsed Tree Network View



Demo of Nagios

http://noc.ws.nsrc.org/nagios3/

nagiosadmin: lab_password

Installation

In Debian/Ubuntu

```
# apt-get install nagios3
```

<u>Key directories</u>

```
/etc/nagios3
/etc/nagios3/conf.d
/etc/nagios-plugins/config
/usr/lib/nagios/plugins
/usr/share/nagios3/htdocs/images/logos
```

Nagios web interface is here:

http://pcN.ws.nsrc.org/nagios3/

Host and Services Configuration

Based on templates

- This saves lots of time avoiding repetition

There are default templates with default parameters for a:

- *generic host* (generic-host_nagios2.cfg)
- *generic service* (generic-service_nagios2.cfg)

- Individual settings can be overridden
- Defaults are all sensible

Configuration

- Configuration defined in text files
  - /etc/nagios3/conf.d/*.cfg
  - Details at http://nagios.sourceforge.net/docs/3_0/objectdefinitions.html
- The default config is broken into several files with different objects in different files, but actually you can organise it how you like
- Always verify before restarting Nagios – otherwise your monitoring system may die!
  - `nagios3 –v /etc/nagios3/nagios.cfg`

Monitoring a Single Host

pcs.cfg

```
define host {
   host_name pc1
   alias     pc1 in group 1
   address   pc1.ws.nsrc.org
   use       generic-host
}
```

copy settings from this template

- This is a minimal working config
  - You are just pinging the host; Nagios will warn that you are not monitoring any services
- The filename can be anything ending **`.cfg`**
- Organise your devices however you like – e.g. related hosts in the same file

Generic Host Template

generic-host_nagios2.cfg

```
define host {
   name                          generic-host    ; The name of this host template
   notifications_enabled         1  ; Host notifications are enabled
   event_handler_enabled         1  ; Host event handler is enabled
   flap_detection_enabled        1  ; Flap detection is enabled
   failure_prediction_enabled    1  ; Failure prediction is enabled
   process_perf_data             1  ; Process performance data
   retain_status_information     1  ; Retain status information across program restarts
   retain_nonstatus_information  1  ; Retain non-status information across restarts
      check_command                 check-host-alive
      max_check_attempts            10
      notification_interval         0
      notification_period           24x7
      notification_options          d,u,r
      contact_groups                admins
   register                      0  ; DON'T REGISTER THIS DEFINITION –
                                    ; IT'S NOT A REAL HOST, JUST A TEMPLATE!
}
```

Overriding Defaults

All settings can be overridden per host

pcs.cfg

```
define host {
   host_name                pc1
   alias                    pc1 in group 1
   address                  pc1.ws.nsrc.org
   use                      generic-host
   notification_interval    120
   contact_groups           admins,managers
}
```

Defining Services: Direct Way

pcs.cfg

```
define host {
   host_name     pc1
   alias         pc1 in group 1
   address       pc1.ws.nsrc.org
   use           generic-host
}

define service {
   host_name              pc1
   service_description    HTTP
   check_command          check_http
   use                    generic-service
}

define service {
   host_name              pc1
   service_description    SSH
   check_command          check_ssh
   use                    generic-service
}
```

service "pc1,HTTP"

plug in

service template

Service Checks

- The combination of host + service is a unique identifier for the service check, e.g.
  - “pc1,HTTP”
  - “pc1,SSH”
  - “pc2,HTTP”
  - “pc2,SSH”
- *check_command* points to the plugin
- *service template* pulls in settings for how often the check is done, and who and when to alert

Generic Service Templates

```
define service{
        name                            generic-service
        active_checks_enabled           1
        passive_checks_enabled          1
        parallelize_check               1
        obsess_over_service             1
        check_freshness                 0
        notifications_enabled           1
        event_handler_enabled           1
        flap_detection_enabled          1
        failure_prediction_enabled      1
        process_perf_data               1
        retain_status_information       1
        retain_nonstatus_information    1
          notification_interval           0
          is_volatile                     0
          check_period                    24x7
          normal_check_interval           5
          retry_check_interval            1
          max_check_attempts              4
          notification_period             24x7
          notification_options            w,u,c,r
          contact_groups                  admins
        register                        0    ; DONT REGISTER THIS DEFINITION
        }
```

generic-service_nagios2.cfg

(comments have been removed)

Overriding Defaults

Again, settings can be overridden per service

services_nagios2.cfg

```
define service {
   host_name              pc1
   service_description    HTTP
   check_command          check_http
   use                    generic-service
   contact_groups         admins,managers
   max_check_attempts     3
}
```

Repeating Service Checks

- Often we are monitoring an identical service on many hosts
- To avoid duplication, a better way is to define a service check for all hosts in a *hostgroup*

Creating Hostgroups

hostgroups_nagios2.cfg

```
define hostgroup {
   hostgroup_name   http-servers
   alias            HTTP servers
   members          pc1,pc2
}

define hostgroup {
   hostgroup_name   ssh-servers
   alias            SSH servers
   members          pc1,pc2
}
```

Monitoring Services in Hostgroups

```
define service {
   hostgroup_name        http-servers
   service_description   HTTP
   check_command         check_http
   use                   generic-service
}

define service {
   hostgroup_name        ssh-servers
   service_description   SSH
   check_command         check_ssh
   use                   generic-service
}
```

services_nagios2.cfg

if hostgroup "http-servers" contains pc1 & pc2 then Nagios creates HTTP service checks for both hosts. The service checks are called "pc1,HTTP" and "pc2,HTTP"

Alternative View

- “this hostgroup contains these PCs”

or:

- “this PC belongs to these hostgroups”

- No need for “members” line in hostgroups file

Alternative Group Membership

pcs.cfg

```
define host {
   host_name     pc1
   alias         pc1 in group 1
   address       pc1.ws.nsrc.org
   use           generic-host
   hostgroups    ssh-servers,http-servers
}

define host {
   host_name     pc2
   alias         pc2 in group 1
   address       pc2.ws.nsrc.org
   use           generic-host
   hostgroups    ssh-servers,http-servers
}
```

Hosts and services conveniently defined in the same place

Other Uses for Hostgroups

Choosing icons for the status map

pcs.cfg

```
define host {
   host_name    pc1
   alias        pc1 in group 1
   address      pc1.ws.nsrc.org
   use          generic-host
   hostgroups   ssh-servers,http-servers,debian-servers
}
```

extinfo_nagios2.cfg

```
define hostextinfo {
   hostgroup_name    debian-servers
   notes             Debian GNU/Linux servers
   icon_image        base/debian.png
   statusmap_image   base/debian.gd2
}
```

Optional: Servicegroups

- Services can be grouped into a “servicegroup”
- This is so related or dependent services can be viewed together in the web interface
- The services themselves must already exist

servicegroups.cfg

```
define servicegroup {
   servicegroup_name   mail-services
   alias        Services comprising the mail platform
   members      web1,HTTP,web2,HTTP,mail1,IMAP,db1,MYSQL
}
```

Configuring Topology

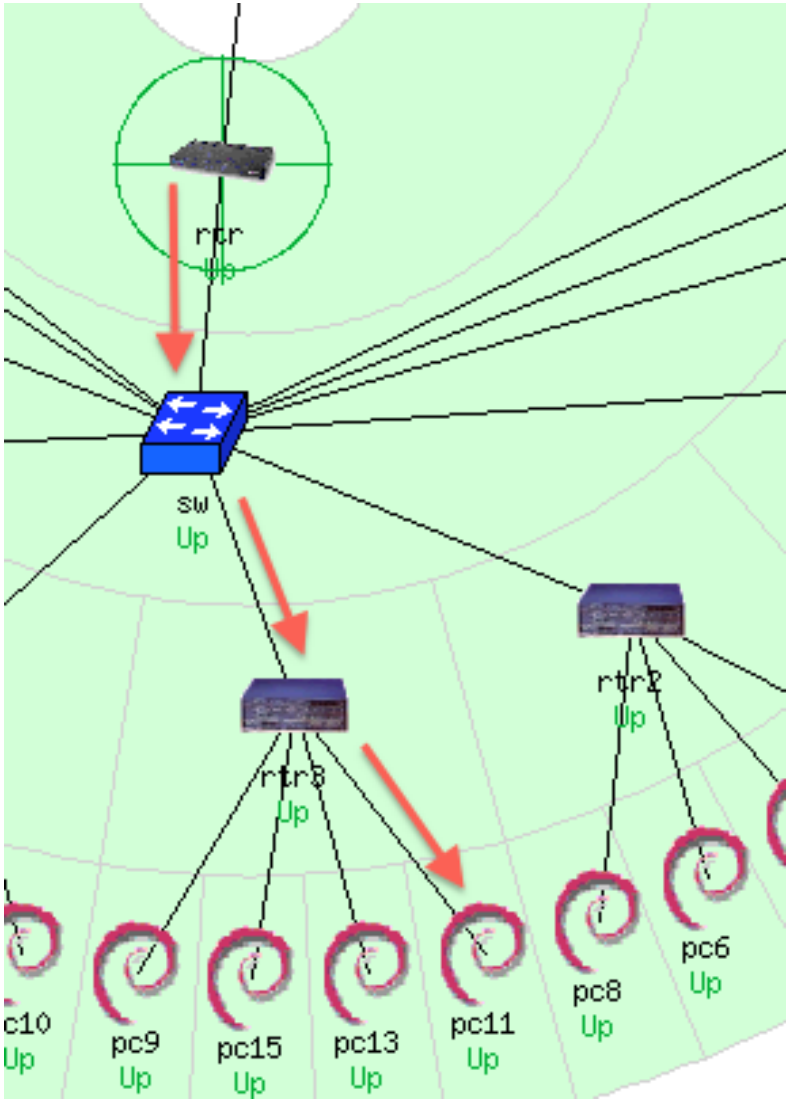
pcs.cfg

```
define host {
   host_name    pc1
   alias        pc1 in group 1
   address      pc1.ws.nsrc.org
   use          generic-host
   parents      rtr1
}
```

parent host

- This means “pc1 is on the far side of rtr1”
- If rtr1 goes down, pc1 is “unreachable”, not “down”
- Prevents a cascade of alerts if rtr1 goes down
- Also allows Nagios to draw cool status map

Another View of Configuration



RTR

```
define host {
    use             generic-host
    host_name       rtr
    alias           Gateway Router
    address         10.10.0.254     }
```

SW

```
define host {
    use             generic-host
    host_name       sw
    alias           Backbone Switch
    address         10.10.0.253
    parents         rtr     }
```

RTR3

```
define host {
    use             generic-host
    host_name       rtr3
    alias           router 3
    address         10.10.3.254
    parents         sw      }
```

PC11…

Out of Band (OOB) Notifications

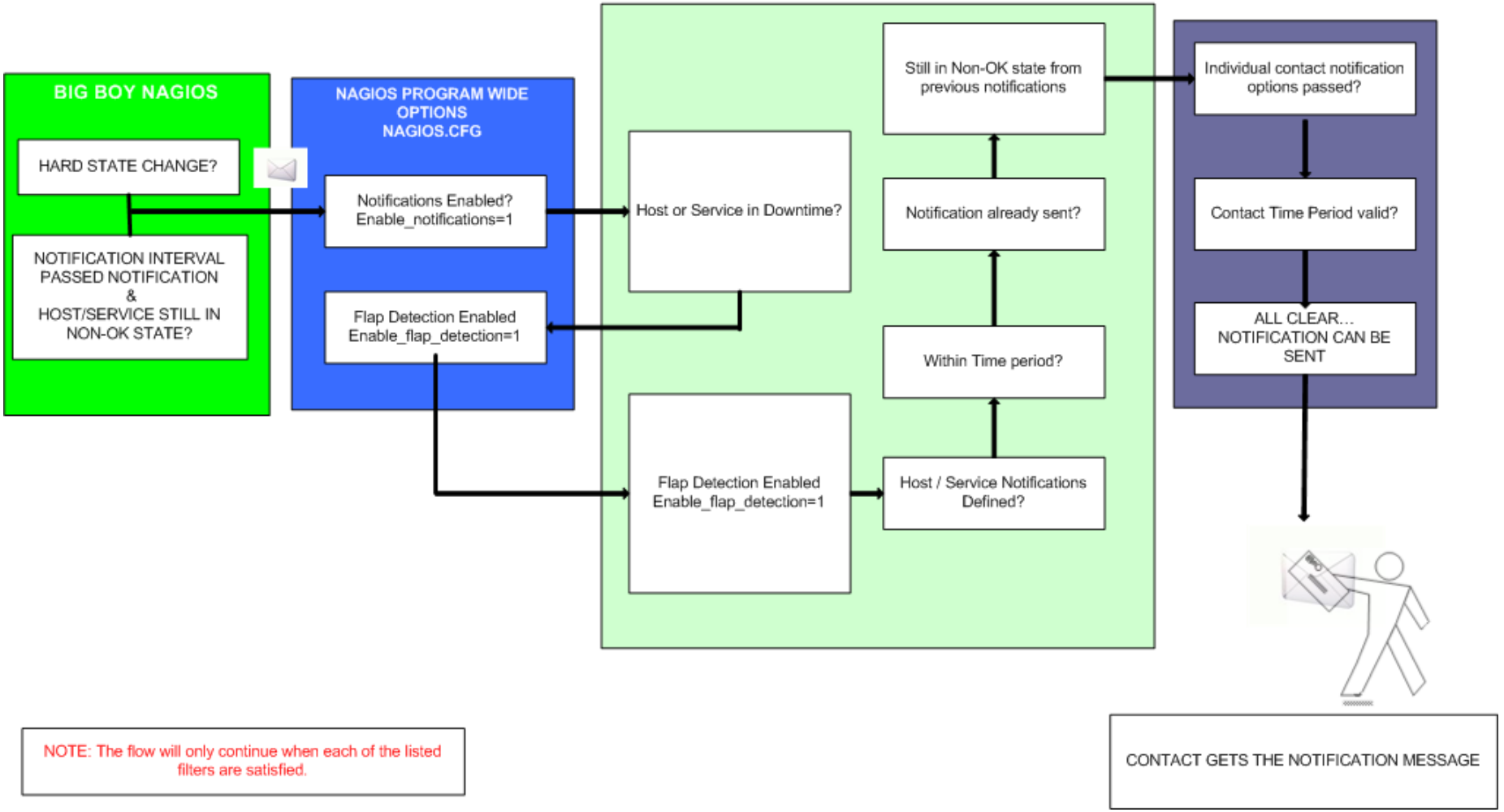
A critical item to remember: an SMS or message system that is independent from your network.

- You can utilize a cell phone connected to the Nagios server, or a USB dongle with SIM card
- You can use packages like:

gammu: http://wammu.eu/
gnokii: http://www.gnokii.org/
sms-tools: http://smstools3.kekekasvi.com/

I use a Raspberry Pi with Kannel: http://www.kannel.org/

NAGIOS - NOTIFICATION FLOW DIAGRAM



NOTE: The flow will only continue when each of the listed filters are satisfied.

References

- **Nagios web site**
  http://www.nagios.org/
- **Nagios plugins site**
  http://www.nagiosplugins.org/
- *Nagios System and Network Monitoring*, by Wolfgang Barth. Good book about Nagios.
- **Unofficial Nagios plugin site**
  http://nagios.exchange.org/
- **A Debian tutorial on Nagios**
  http://www.debianhelp.co.uk/nagios.htm
- **Commercial Nagios support**
  http://www.nagios.com/

Additional Details

A few additional slides you may find useful or informative…

More Features

- Allows you to acknowledge an event.
  - A user can add comments via the GUI
- You can define maintenance periods
  - By device or a group of devices
- Maintains availability statistics and generates reports
- Can detect flapping and suppress additional notifications.
- Allows for multiple notification methods:
  - e-mail, pager, SMS, winpopup, audio, etc...
- Allows you to define notification levels for escalation

Host Notification Options

Host state:

When configuring a host you can be notified on the following conditions:

- **d:** DOWN
- **u:** UNREACHABLE
- **r:** RECOVERY
- **f:** FLAPPING (start/end)
- **s:** SCHEDULED DOWNTIME (start/end)
- **n:** NONE

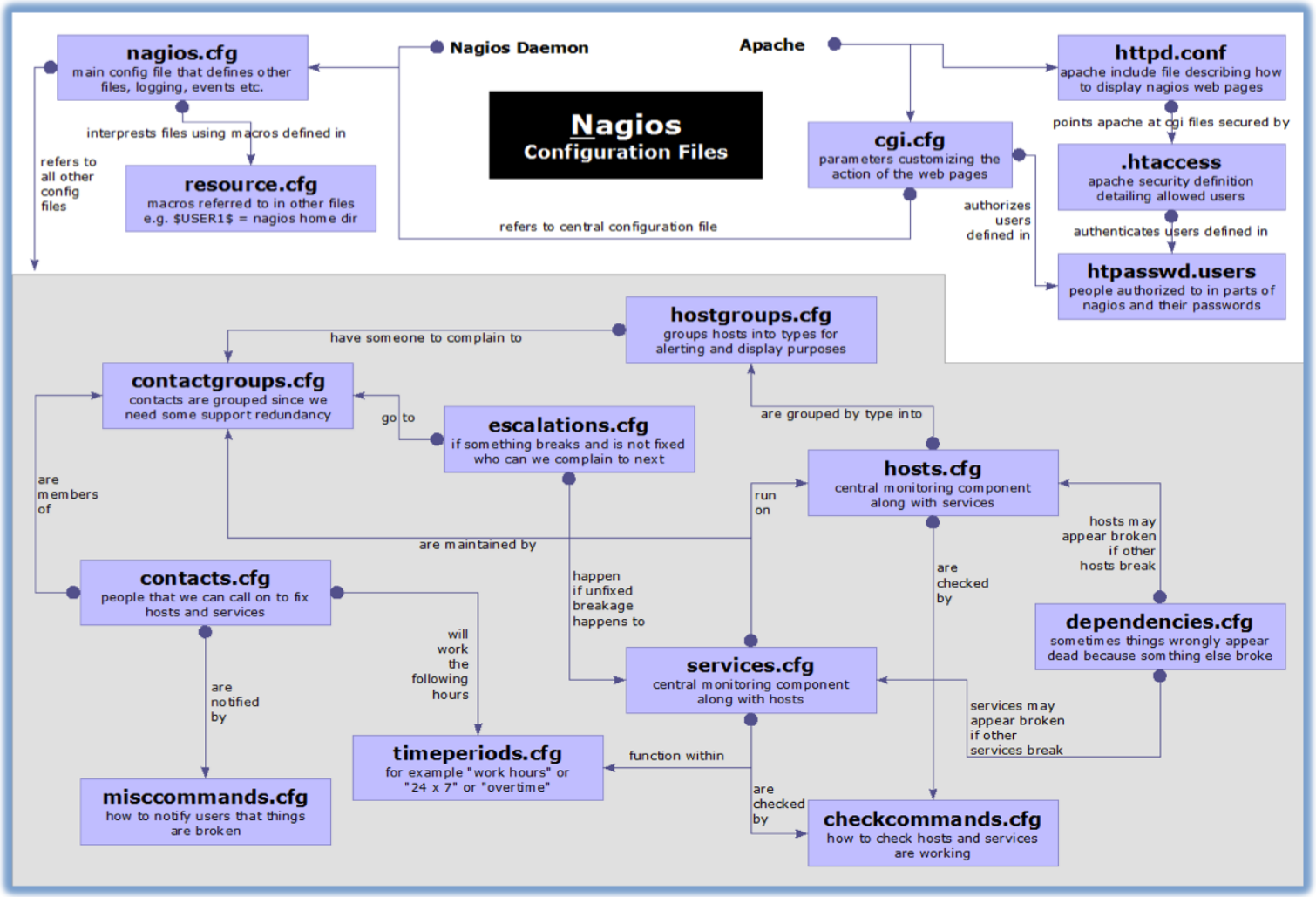
Service Notification Options

Service state:

When configuring a service you can be notified on the following conditions:

- **w:** WARNING
- **c:** CRITICAL
- **u:** UNKNOWN
- **r:** RECOVERY
- **f:** FLAPPING (start/end)
- **s:** SCHEDULED DOWNTIME (start/end)
- **n:** NONE

Configuration Files



Debian/Ubuntu Configuration Files

Located in /etc/nagios3/

Important files include:

- nagios.cfg — Main configuration file.
- cgi.cfg — Controls the web interface and security options.
- commands.cfg — The commands that Nagios uses for notifications.
- conf.d/* — All other configuration goes here!

More Configuration FIles

Under conf.d/*

- contacts_nagios2.cfg — users and groups
- extinfo_nagios2.cfg — make your UI pretty
- generic-host_nagios2.cfg — default host template
- generic-service_nagios2.cfg — default service template
- host-gateway_nagios3.cfg — upstream router definition
- hostgroups_nagios2.cfg — groups of nodes
- localhost_nagios2.cfg — definition of nagios host
- services_nagios2.cfg — what services to check
- timeperiods_nagios2.cfg — when to check who to notify

More Configuration Files

Under conf.d some other possible config files:

- servicegroups.cfg — Groups of nodes and services
- pcs.cfg — Sample definition of PCs (hosts)
- switches.cfg — Definitions of switches (hosts)
- routers.cfg — Definitions of routers (hosts)

Main Configuration Details

Global settings

File: `/etc/nagios3/nagios.cfg`

- Says where other configuration files are.
- General Nagios behavior:
  - For large installations you should tune the installation via this file.
  - See: *Tunning Nagios for Maximum Performance* **http://nagios.sourceforge.net/docs/3_0/tuning.html**

CGI Configuration

/etc/nagios3/cgi.cfg

- You can change the CGI directory if you wish
- Authentication and authorization for Nagios use:
  - Activate authentication via Apache's .htpasswd mechanism, or using RADIUS or LDAP.
  - Users can be assigned rights via the following variables:
    - authorized_for_system_information
    - authorized_for_configuration_information
    - authorized_for_system_commands
    - authorized_for_all_services
    - authorized_for_all_hosts
    - authorized_for_all_service_commands
    - authorized_for_all_host_commands

Time Periods

This defines the base periods that control checks, notifications, etc.

- Defaults: 24 x 7
- Adjust as needed, such as work-week only.
- Set up new time period for “outside regular hours”, etc.

```
# '24x7'
define timeperiod{
        timeperiod_name 24x7
        alias           24 Hours A Day, 7 Days A Week
        sunday          00:00-24:00
        monday          00:00-24:00
        tuesday         00:00-24:00
        wednesday       00:00-24:00
        thursday        00:00-24:00
        friday          00:00-24:00
        saturday        00:00-24:00
        }
```

Configuring Service/Host Checks

```
define command {
  command_name  check_ssh
  command_line  /usr/lib/nagios/plugins/check_ssh '$HOSTADDRESS$'
}

define command {
  command_name  check_ssh_port
  command_line  /usr/lib/nagios/plugins/check_ssh -p '$ARG1$' '$HOSTADDRESS$'
}
```

/etc/nagios-plugins/config/ssh.cfg

- Notice the same plugin can be invoked in different ways (“commands”)
- Command and arguments are separated by exclamation marks (!)
- e.g. to check SSH on a non-standard port, you can do it like this:

```
define service {
   hostgroup_name        ssh-servers-2222
   service_description   SSH-2222
   check_command         check_ssh_port!2222
   use                   generic-service
}
```

this is $ARG1$

Notification Commands

Use any command you want!

We could use this to generate tickets in RT.

```
# 'notify-by-email' command definition
define command{
        command_name    notify-by-email
        command_line    /usr/bin/printf "%b" "Service: $SERVICEDESC$\nHost:
$HOSTNAME$\nIn: $HOSTALIAS$\nAddress: $HOSTADDRESS$\nState: $SERVICESTATE$\nInfo:
$SERVICEOUTPUT$\nDate: $SHORTDATETIME$" | /bin/mail -s '$NOTIFICATIONTYPE$:
$HOSTNAME$/$SERVICEDESC$ is $SERVICESTATE$' $CONTACTEMAIL$
        }
```

```
From:    nagios@nms.localdomain
To:      router_group@localdomain
Subject: Host DOWN alert for TLD1-RTR!
Date:    Thu, 29 Jun 2006 15:13:30 -0700


Host: gw
In: Core_Routers
State: DOWN
Address: 192.0.2.100
Date/Time: 06-29-2006 15:13:30
Info: CRITICAL - Plugin timed out after 6 seconds
```

Group Service Configuration

```
# check that ssh services are running
define service {
        hostgroup_name            ssh-servers
        service_description       SSH
        check_command             check_ssh
        use                       generic-service
        notification_interval     0
}
```

The “service_description” is important if you plan to create Service Groups. Here is a sample Service Group definition:

```
define servicegroup{
   servicegroup_name   Webmail
   alias               web-mta-storage-auth
   members             srvr1,HTTP,srvr1,SMTP,srvr1,POP,  \
                       srvr1,IMAP,srvr1,RAID,srvr1,LDAP, \
                       srvr2,HTTP,srvr2,SMTP,srvr2,POP,  \
                       srvr2,IMAP,srvr2,RAID,srvr2,LDAP
}
```

Screen Shots

A few sample screen shots from a Nagios install.

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Current Network Status
Last Updated: Thu Sep 3 14:55:28 CDT 2009
Updated every 90 seconds
Nagios® 3.0.2 - www.nagios.org
Logged in as *guest*

View Service Status Detail For All Host Groups
View Host Status Detail For All Host Groups
View Status Summary For All Host Groups
View Status Grid For All Host Groups

Host Status Totals

Up	Down	Unreachable	Pending
41	0	0	0

All Problems	All Types
0	41

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
46	0	0	0	0

All Problems	All Types
0	46

Service Overview For All Host Groups

TRTI TLD1 Servers, Virtual Machines, Routers (TLD1)

Host	Status	Services	Actions
NOC-TLD1	UP	1 OK	
NS1-TLD1	UP	1 OK	
TLD1-RTR	UP	1 OK	
TRTI-TLD1	UP	1 OK	

TRTI TLD2 Servers, Virtual Machines, Routers (TLD2)

Host	Status	Services	Actions
NOC-TLD2	UP	1 OK	
NS1-TLD2	UP	1 OK	
TLD2-RTR	UP	1 OK	
TRTI-TLD2	UP	1 OK	

TRTI TLD3 Servers, Virtual Machines, Routers (TLD3)

Host	Status	Services	Actions
NOC-TLD3	UP	1 OK	
NS1-TLD3	UP	1 OK	
TLD3-RTR	UP	1 OK	
TRTI-TLD3	UP	1 OK	

TRTI TLD4 Servers, Virtual Machines, Routers (TLD4)

Host	Status	Services	Actions
NOC-TLD4	UP	1 OK	
NS1-TLD4	UP	1 OK	
TLD4-RTR	UP	1 OK	
TRTI-TLD4	UP	1 OK	

TRTI TLD5 Servers, Virtual Machines, Routers (TLD5)

Host	Status	Services	Actions
NOC-TLD5	UP	1 OK	
NS1-TLD5	UP	1 OK	
TLD5-RTR	UP	1 OK	
TRTI-TLD5	UP	1 OK	

TRTI TLD6 Servers, Virtual Machines, Routers (TLD6)

Host	Status	Services	Actions
NOC-TLD6	UP	1 OK	
NS1-TLD6	UP	1 OK	
TLD6-RTR	UP	1 OK	
TRTI-TLD6	UP	1 OK	

TRTI TLD7 Servers, Virtual Machines, Routers (TLD7)

Host	Status	Services	Actions
NOC-TLD7	UP	1 OK	
NS1-TLD7	UP	1 OK	

TRTI TLD8 Servers, Virtual Machines, Routers (TLD8)

Host	Status	Services	Actions
NOC-TLD8	UP	1 OK	
NS1-TLD8	UP	1 OK	

TRTI Management Virtual Machines (VM-mgmt)

Host	Status	Services	Actions
DNS-ROOT	UP	1 OK	
ISP-DNS	UP	1 OK	

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Current Network Status
Last Updated: Fri Sep 4 13:29:20 CDT 2009
Updated every 90 seconds
Nagios® 3.0.2 - www.nagios.org
Logged in as *guest*

View Service Status Detail For All Service Groups
View Status Summary For All Service Groups
View Service Status Grid For All Service Groups

Host Status Totals

Up	Down	Unreachable	Pending
41	0	0	0

All Problems	All Types
0	41

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
53	0	0	1	0

All Problems	All Types
1	54

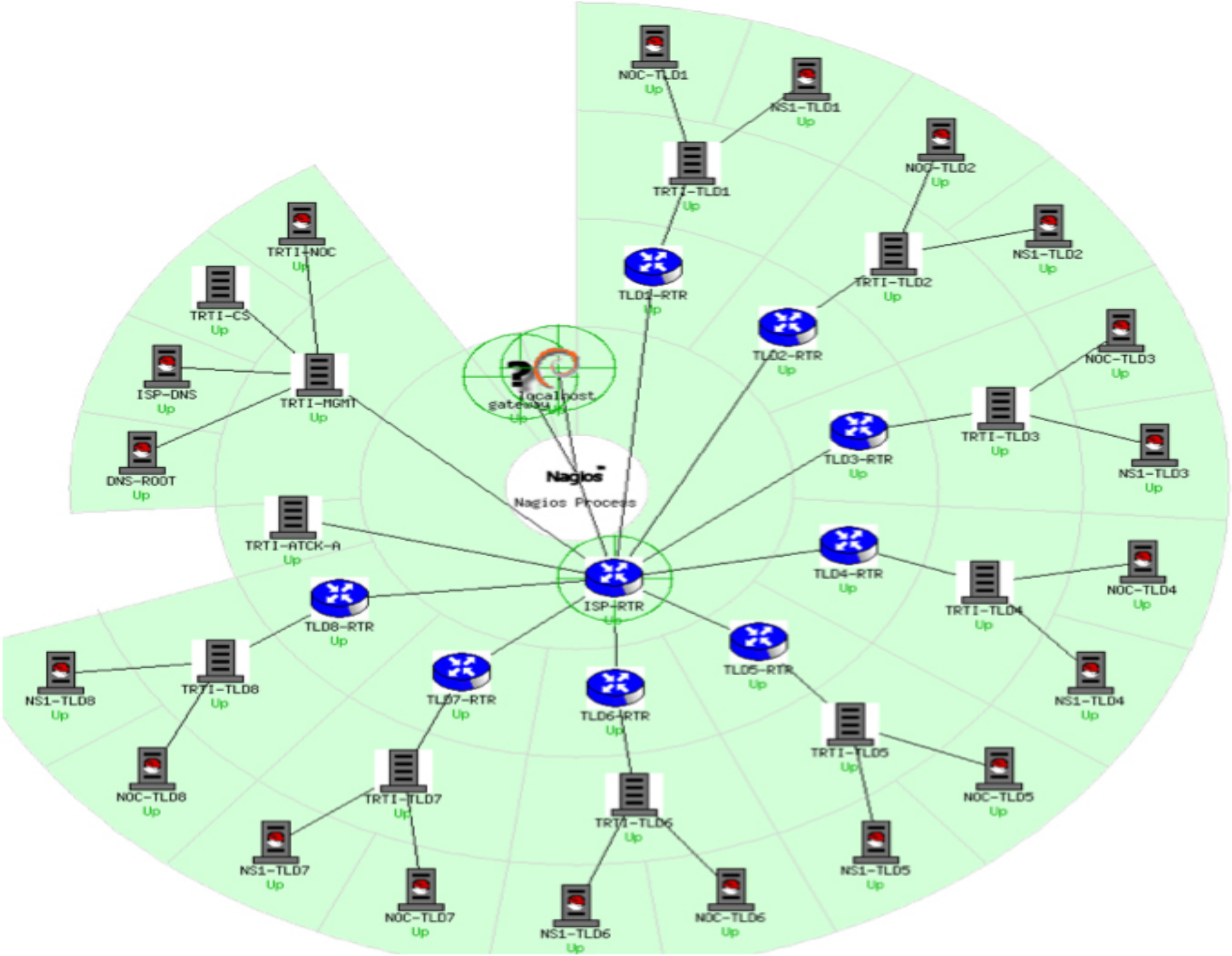
Service Overview For All Service Groups

TLD Servers running Nagios (NAGIOS)

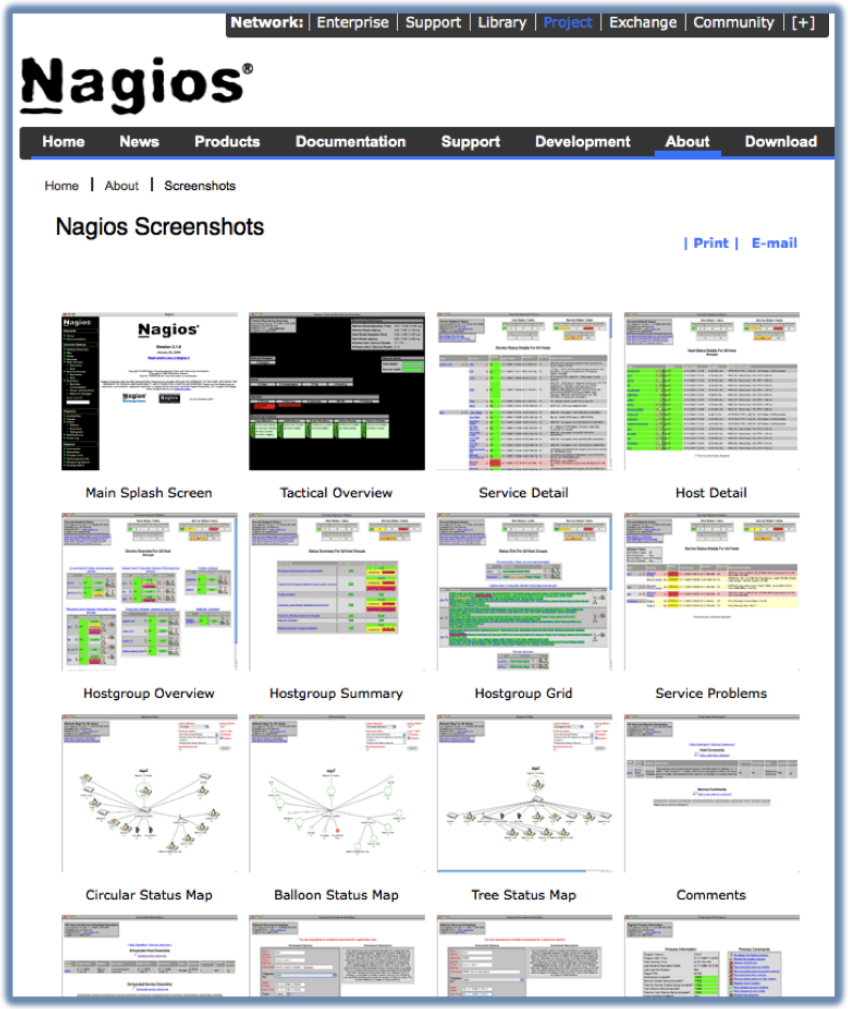
Host	Status	Services	Actions
NS1-TLD1	UP	1 OK	
NS1-TLD2	UP	1 OK	
NS1-TLD3	UP	1 OK	
NS1-TLD4	UP	1 OK	
NS1-TLD5	UP	1 OK	
NS1-TLD6	UP	1 OK	
NS1-TLD7	UP	1 OK	
NS1-TLD8	UP	1 OK	

TLD Servers running SSH (SSH)

Host	Status	Services	Actions
NS1-TLD1	UP	1 OK	
NS1-TLD2	UP	1 CRITICAL	
NS1-TLD3	UP	1 OK	
NS1-TLD4	UP	1 OK	
NS1-TLD5	UP	1 OK	
NS1-TLD6	UP	1 OK	
NS1-TLD7	UP	1 OK	
NS1-TLD8	UP	1 OK	


NOC-TLD1
Up
NS1-TLD1
Up
TRTI-TLD1
Up
TLD1-RTR
Up
NOC-TLD2
Up
TRTI-TLD2
Up
NS1-TLD2
Up
TLD2-RTR
Up
NOC-TLD3
Up
TRTI-TLD3
Up
TLD3-RTR
Up
NS1-TLD3
Up
TRTI-NOC
Up
TRTI-CS
Up
ISP-DNS
Up
TRTI-MGMT
Up
DNS-ROOT
Up
localhost
gateway
Up
Nagios
Nagios Process
TRTI-ATCK-A
Up
ISP-RTR
Up
TLD4-RTR
Up
TRTI-TLD4
Up
NOC-TLD4
Up
NS1-TLD4
Up
TLD8-RTR
Up
TRTI-TLD8
Up
NS1-TLD8
Up
NOC-TLD8
Up
TLD7-RTR
Up
TRTI-TLD7
Up
NS1-TLD7
Up
NOC-TLD7
Up
TLD6-RTR
Up
TRTI-TLD6
Up
NS1-TLD6
Up
NOC-TLD6
Up
TLD5-RTR
Up
TRTI-TLD5
Up
NOC-TLD5
Up
NS1-TLD5
Up

More Sample Screenshots



Many more sample Nagios screenshots available here:

http://www.nagios.org/about/screenshots