



Nagios Looking Glass Version 1.0

Documentation

Author: Mark Novak

<http://software.andyshellam.eu/looking-glass.php>

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About

What is Nagios Looking Glass?

Speak to network administrators who run Nagios, and you'll soon come across a common problem - how to provide up-to-the-minute status information from Nagios to the general public (or a specific set of users), without giving them access to the Nagios front-end (CGIs), as this can seem over-complicated and a possible security risk.

Nagios Looking Glass (NLG) can be run on a public webserver, and take its feed from a separate Nagios server - so the general public will never know the Nagios server even exists! It also means you don't have to expose your Nagios server to the public in your company's DMZ.

If, however, you don't have the luxury of a separate Nagios and web server, NLG will run perfectly happily on the same machine.

System Requirements

On the Nagios server (s3_poller)

- Nagios 2.x series (tested with 2.4 and 2.5)
- Apache 2.x series (tested with 2.2.3)
- PHP 5 (tested with PHP 5.1.6 and 5.2.0)
- 1MB disk space

On the public-side Web server (s3_client)

- Apache 2.x series (tested with 2.2.3)
- PHP 5 (tested with PHP 5.1.6 and 5.2.0)
- allow_url_fopen enabled in PHP (with HTTP handler enabled)
- If need to access s3_poller.php via HTTPS, need OpenSSL compiled into PHP with HTTPS handler enabled
- 3MB disk space
- Dig client tools (able to `dig version.looking-glass.andyshellam.eu TXT`)

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On user's client machines

- Firefox (tested with 1.5 and 2.0)
- Internet Explorer (tested with IE 6 and 7)
- JavaScript enabled
- 16-bit colour
- 800x600 resolution (ideal at 1024x768 or higher)

Licensing

Nagios Looking Glass is distributed under the terms of the Creative Commons Share-Alike 2.5 license.

You can download a copy of the license separately here.

<http://software.andyshellam.eu/looking-glass/license.php>

Download The Newest Version

The latest stable version can be downloaded from:

<http://software.andyshellam.eu/looking-glass/download.php>

(SVN access will be available shortly.)

Release Notes

What's new in this version?

First release of NLG, not much to report!

Changelog – from the 0.2.x Beta series

1.0.0#PRE (released 27th Dec 2006)

[UPGRADE] Poller upgraded to Series 3

[UPGRADE] JavaScript API changes

[BUG FIX] "hostname --fqdn" fails on non-BSD systems - now using "hostname"

[BUG FIX] Massively-improved server paging

[BUG FIX] Improved IP Access Control Lists for both server- and client-side

[BUG FIX] HTTP authentication fixed in download stub

[FEATURE] Shared files sync'd from server to client (including config)

[FEATURE] HTTP authentication in config made more obvious

[FEATURE] Data is cached client-side for multi-hit improvements

[FEATURE] Server filters can be customised with any status combination

[FEATURE] Completely re-written templating system

[FEATURE] Overall network health page

[FEATURE] Language strings separated into separate language files

[FEATURE] Update notification by checking DNS records for current version

Downloading and Installing

Become Root

You'll need to have root access to install Nagios Looking glass and to modify the web server configuration files. Either login as root before you begin or use the su command to change to the root user from another account.

Download The Newest Version

The latest stable version can be downloaded from:

<http://software.andysheila.com/looking-glass/download.php>

(SVN access will be available shortly.)

Unpacking The Distribution

To unpack Nagios Looking Glass, use the following command:

```
unzip nlg_version.zip
```

When you have finished executing this command, you should find an **nlg_version** directory that has been created in your current directory. Inside that directory will be the files needed to install and run Nagios Looking Glass.

Installing NLG

Now you need to copy the client and server directories to their appropriate locations. In the following example, it is assumed that the client and server are on the same Nagios computer. This does not need to be the case, as the client and server can be easily separated.

*** Need documentation for separate client/server installation.

Copy the client and server directories to the Nagios /share/ directory. By default, this is the /usr/local/nagios/share directory.

```
cp -R nlg_version/client /usr/local/nagios/share/  
cp -R nlg_version/server /usr/local/nagios/share/
```

Downloading and Installing

Change the ownership to the same user and group as your web server to the entire /client directory. In this example the Apache server runs as www-data for the user and www-data for the group.

chown -R www-data.www-data /usr/local/nagios/share/client/

Edit the s3_config.inc.dist file

Enter into the /server/sync-files directory and edit the s3_config.inc.dist file. Once this is complete, we will copy it to /server/sync-files/s3_config.inc.php.

In the s3_config.inc.dist file, you can/may need to change the following variables. Everything else should work by default and is explained in greater detail later in this document.

```
$ClientCompanyName = "&copy; your company name"  
$ClientAdminEmailAddress = "your@emailaddress.com"
```

```
$ServerFeed_URL = "http://your\_nagios\_server/s3\_poller.php";
```

In our example case http://bigeye01.server.com/nagios/server/s3_poller.php;

If you set up authentication in Nagios for web viewing, you will need to change the following variables as well:

```
$ServerFeed_AuthEnabled = 1;  
$ServerFeed_AuthUsername = "username";  
$ServerFeed_AuthPassword = "password";
```

Now copy and rename this file to place it in the correct location:

cp s3_config.inc.dist /usr/local/nagios/share/server/sync-files/s3_config.inc.php

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Edit the s3_config_stub.inc.dist file

Enter into the /client/ directory and edit the s3_config_stub.inc.dist files. Once this is complete, we will rename it so that NLG recognizes it.

Modify the s3_config_stub.inc.dist and save it as s3_config_stub.inc.php

In the s3_config_stub.inc.dist file, you can/may need to change the following variables. Everything else should work by default and is explained in greater detail later in this document.

If you have set up HTTP authentication, you will need to change the following two variables:

```
$Stub_HTTPAuthEnabled = 1;  
$Stub_HTTPAuthUsername = "username";  
$Stub_HTTPAuthPassword = "password";
```

```
$Stub_DownloadSource = "http://your\_nagios\_server/s3\_download.php";
```

In our example case http://bigeye01.server.com/nagios/server/s3_download.php;

Now save the file and rename it so that NLG recognizes it:

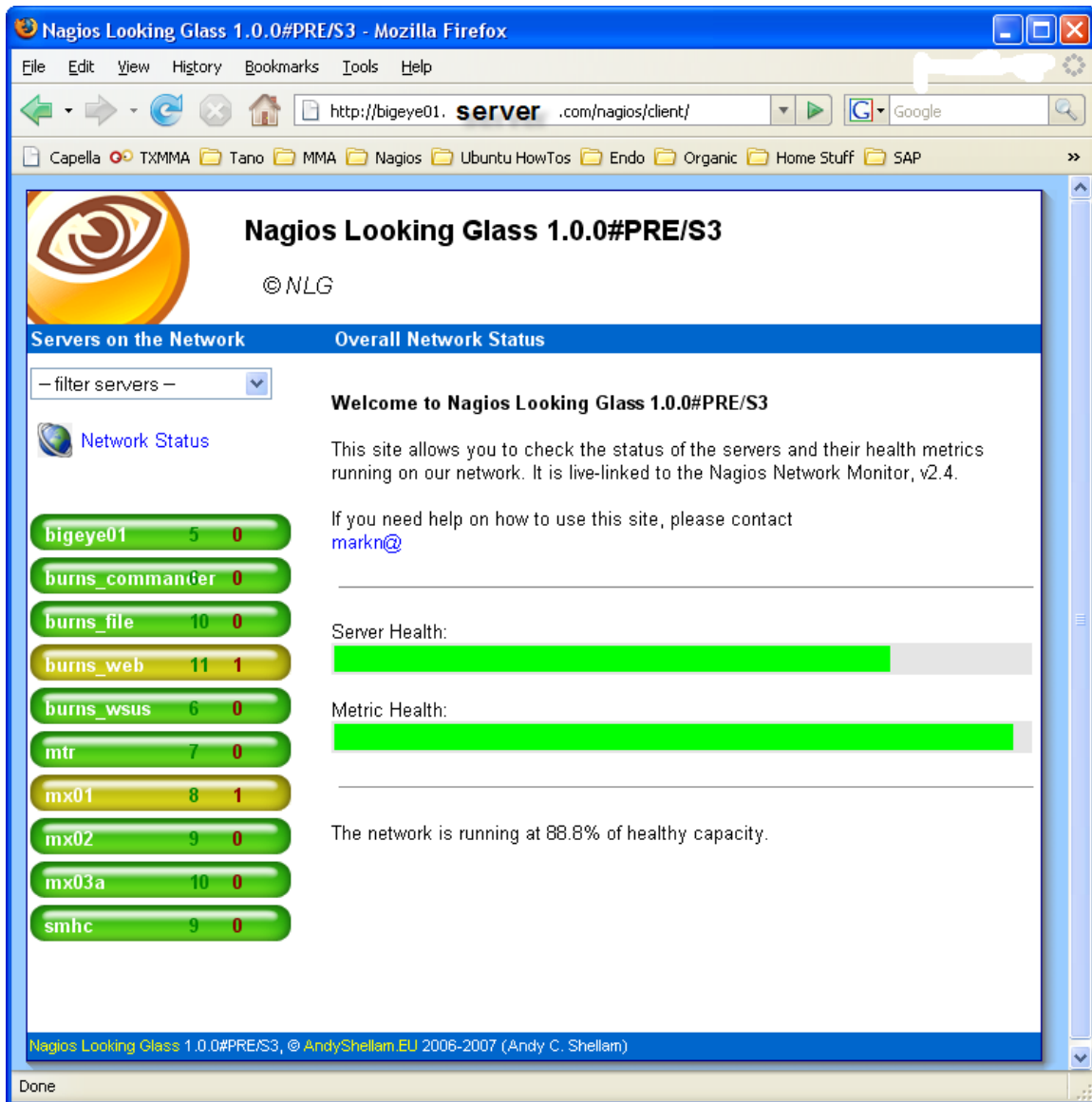
```
cp s3_config_stub.inc.dist /usr/local/nagios/share/client/s3_config_stub.inc.php
```


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Running Nagios Looking Glass

At this point, the basic configuration is complete. If the installation was successful, you can launch the URL for NLG and you should see it working fine.

In our example case:



Appendix – File System Layout

```
+ client/
  + sync-files/
    s3_class.inc.php
    s3_config.inc.php
    s3_filter.inc.php
    s3_functions.inc.php
    s3_lang_en.inc.php
  + templates/
    + default/
      comment_detail.tpl      --> Host/service comment template
      default.css.tpl         --> CSS style for the template
      default.tpl             --> Overall page view template
      filter_chooser.tpl      --> The server filter-selector
    template
      logo.gif                --> Company logo for this template
      network_status.tpl      --> Overall 'looking-glass' network
    status
      server_detail.tpl       --> List of server-specific details
    (inc. metrics)
      server_pager.tpl        --> The server-pager template
      server_summary.tpl      --> List of servers and statuses (in
main view)
      server_summary_no_result.tpl  --> The template returned
instead of 'server_summary.tpl'    when no servers are found matching
selected filter
      template_chooser.tpl     --> Template-selector
    s3_client.php
    s3_config_stub.inc.php
    s3_download_stub.inc.php

+ server/
  + sync-files/
    s3_class.inc.php
    s3_config.inc.php
    s3_filter.inc.php
    s3_functions.inc.php
    s3_lang_en.inc.php
  s3_download.php
  s3_poller.php
```

Appendix – Template Variables

Template Variables 1.0

[*....*] In-line template (parsed and repeated as and when necessary) – must be enclosed in <!--...-->

[[....]] Single variable replacement

[+....+] Calculated variable replacement (NOT YET IMPLEMENTED)

Global Parameters (usable in any template):

[[NLG_VERSION]]

Version of Nagios Looking Glass running

[[NAGIOS_VERSION]]

Replaced with the version of Nagios used from the feed

[[NAGIOS_FEED_UPDATED]]

Replaced with the date/time the feed from Nagios was updated

[[TEMPLATE_NAME]]

Replaced with the template name

[*TEMPLATE_CHOOSER*]

Replaced with the contents of template_chooser.tpl

[*FILTER_CHOOSER*]

Replaced with the contents of filter_chooser.tpl

[*PAGER_CHOOSER*]

For each pager group, replaced with the contents of pager_group.tpl

[[CURRENT_FILTER_NAME]]

Replaced with the currently-applied filter name

default.tpl:

[[STYLE_CSS]]

Stylesheet declarations to go in the <style type="text/css"></style> section

Appendix – Template Variables

[[COMPANY_LOGO]]

Replaced with the path to the company logo (eg. www.domain.com/images/logo.gif)

[[SITE_NAME]]

Replaced with the value of the \$ClientSiteName config directive

[[COMPANY_NAME]]

Replaced with the value of the \$ClientCompanyName config directive

[[NLG_HOME_LINK]]

Link back to Nagios Looking Glass's homepage

[[NLG_COPYRIGHT]]

Nagios Looking Glass's copyright statement

comment_detail.tpl:

[*S_SERVER_COMMENT_ITEM*]

Start tag for a host comment template

[*E_SERVER_COMMENT_ITEM*]

End tag for a host comment template

[*S_METRIC_COMMENT_ITEM*]

Start tag for a metric comment template

[*E_METRIC_COMMENT_ITEM*]

End tag for a metric comment template

[[COMMENT_UID]]

Within a COMMENT_ITEM template, replaced with the comment's ID

[[COMMENT_AUTHOR]]

Within a COMMENT_ITEM template, replaced with the comment's author

[[COMMENT_TIME]]

Within a COMMENT_ITEM template, replaced with the comment's keyed name

[[COMMENT_SERVER]]

Within a COMMENT_ITEM template, replaced with the host name the comment relates to

Appendix – Template Variables

[[COMMENT_METRIC]]

Only within a METRIC_COMMENT_ITEM template, replaced with the metric name the comment relates to

[[COMMENT_TEXT]]

Within a COMMENT_ITEM template, replaced with the comment's text (data)

server_pager.tpl:

[*S_PAGER_GROUP*]

Start tag for a server pager group

[*E_PAGER_GROUP*]

End tag for a server pager group

[[GROUP_UID]]

The group's ID (used to create the query)

[[GROUP_START]]

The start of the group boundary

[[GROUP_END]]

The end of the group boundary

filter_chooser.tpl:

[*S_FILTER_ITEM*]

Start tag for a filter template

[*E_FILTER_ITEM*]

End tag for a filter template

[[FILTER_UID]]

Within a FILTER_ITEM template, replaced with the filter's ID

[[FILTER_NAME]]

Within a FILTER_ITEM template, replaced with the filter's name

server_detail.tpl:

[*S_METRIC_SUMMARY*]

Start tag for the metric template

Appendix – Template Variables

[*E_METRIC_SUMMARY*]

End tag for the metric template

[[METRIC_UID]]

Replaced with the metric's ID assigned by Network Looking Glass

[[METRIC_NAME]]

Within a METRIC_SUMMARY template, replaced with the server name in Nagios

[[METRIC_STATUS]]

Within a METRIC_SUMMARY template, replaced with OK, W, C, UN

[[METRIC_STATUS_TEXT]]

Within a METRIC_SUMMARY template, replaced with OK, Warning, Critical, Unknown

[[METRIC_LAST_CHECK]]

Within a METRIC_SUMMARY template, replaced with the date/time of the last server check

[[METRIC_NEXT_CHECK]]

Within a METRIC_SUMMARY template, replaced with the date/time of the next server check (if scheduled)

---- and any directives within server_list.tpl, except [*x_SERVER_SUMMARY*] ----

network_status.tpl:

[[NETWORK_SERVER_TOTAL]]

Replaced with the number of servers (total)

[[NETWORK_SERVER_UP]]

Replaced with the number of servers that are 'Up'

[[NETWORK_SERVER_DOWN]]

Replaced with the number of servers that are 'Down'

[[NETWORK_SERVER_NETERROR]]

Replaced with the number of servers that are on 'Network Error'

Appendix – Template Variables

[[NETWORK_SERVER_DEGRADED]]

Replaced with the number of servers that have 'Degraded Metrics'

[[NETWORK_SERVER_BAD]]

Replaced with the number of servers that are not 'Up'

[[NETWORK_METRIC_TOTAL]]

Replaced with the number of metrics (total)

[[NETWORK_METRIC_OK]]

Replaced with the number of metrics that are 'OK'

[[NETWORK_METRIC_WARN]]

Replaced with the number of metrics that are 'WARNING'

[[NETWORK_METRIC_FAIL]]

Replaced with the number of metrics that are 'FAILED'

[[NETWORK_METRIC_UNKNOWN]]

Replaced with the number of metrics that are 'UNKNOWN'

[[NETWORK_METRIC_BAD]]

Replaced with the number of metrics that are not 'OK'

[*NETWORK_COMMENTS*]

Replaced with the contents of comment_detail.tpl

server_summary.tpl:

[*S_SERVER_SUMMARY*]

Start tag for the server summary template (left-hand side)

[*E_SERVER_SUMMARY*]

End tag for the server summary template (left-hand side)

[[SERVER_UID]]

Replaced with the server's ID assigned by Network Looking Glass

[[SERVER_NAME]]

Replaced with the server name in Nagios

Appendix – Template Variables

[[SERVER_STATUS]]

Replaced with U, D, NE, DM (up, down, network error, degraded metrics)

[[SERVER_STATUS_TEXT]]

Replaced with Up, Down, Network Error, Degraded Metrics

[[SERVER_CHECK_RESULT]]

The plugin's output of the check as shown in Nagios

[[SERVER_LAST_CHECK]]

Replaced with the date/time of the last server check

[[SERVER_NEXT_CHECK]]

Replaced with the date/time of the next server check (if scheduled)

[[SERVER_METRIC_TOTAL]]

Replaced with the number of metrics for the server

[[SERVER_METRIC_OK]]

Replaced with the number of metrics that are 'OK'

[[SERVER_METRIC_WARN]]

Replaced with the number of metrics that are 'WARNING'

[[SERVER_METRIC_FAIL]]

Replaced with the number of metrics that are 'FAILED'

[[SERVER_METRIC_UNKNOWN]]

Replaced with the number of metrics that are 'UNKNOWN'

[[SERVER_METRIC_BAD]]

Replaced with the number of metrics that are not 'OK'