



## Purpose

This document describes how to access Nagios Network Analyzer reports within Nagios XI.

This is done by configuring the Nagios Network Analyzer Component within Nagios XI.

Having the Network Analyzer reports available in Nagios XI will allow quick and easy access

to your Nagios Network Analyzer Network Report and Network Query report.

## Target Audience

This document is intended for use by network administrators who want to integrate Nagios Network Analyzer reports into their Nagios XI servers.

## Prerequisites

The Nagios Network Analyzer Component requires that you are running Nagios XI 2014 or later, and Nagios Network Analyzer 2014 version 1.5 or later.

This document contains instructions for upgrading to the most recent version of Nagios Network Analyzer:

[Upgrade Instructions For Nagios Network Analyzer](#)

This document contains instructions for upgrading to the most recent version of Nagios XI:

[Manually Upgrading Your Nagios XI Install](#)

## Overview

This document will demonstrate how to:

- Configure the Nagios Network Analyzer Component in Nagios XI
- View the Nagios Network Analyzer Reports in Nagios XI (Network Report and Network Query Report)

## Configuring The Nagios Network Analyzer Component In Nagios XI

From the Nagios XI Web interface, navigate to **Admin > System Extensions > Manage Components**. Find the **Nagios Network Analyzer Component** and click on the **Edit Settings** icon.

The screenshot shows the Nagios XI Admin interface. The top navigation bar includes Home, Views, Dashboards, Reports, Configure, Tools, Help, and Admin (circled in red). The left sidebar shows System Information, Users, System Config, Monitoring Config, Check Transfers, System Extensions, Manage Components (circled in red), Manage Config Wizards, Manage Dashlets, Manage Plugins, Manage Graph Templates, Manage MIBs, Custom Includes, and System Backups. The main content area displays a list of components:

Component Name	Description	Category	Version
Nagios Graph Explorer	Nagios Graph Explorer is an interactive graphing tool for your Nagios data. Requires Nagios XI 2011R1.3 or later. For most reliable graphs and dashlets, use Mozilla Firefox or Google Chrome.	Core	2.2.0
Nagios Network Analyzer Integration	Allows you to view Nagios Network Analyzer reports in Nagios XI and allows Nagios Network Analyzer to dynamically add hosts and services.	Core	1.2.8
Nagios XI Core Functions	Provides core functions and interface functionality for Nagios XI.	Core	-
NagiosQL Integration	Provides core integration with NagiosQL.	Core	-

To add a new Network Analyzer server, click on the **Add a Server** link. Then fill in all of the required information:

### Nagios Network Analyzer Integration ?

#### Component Settings

These are all the general settings for this component.

Disable Host/Service Tabs from being shown

#### Nagios Network Analyzer Servers

Specify the addresses and a users API Key for each of the Nagios Network Analyzer servers you'd like to see from inside Nagios XI.

[Add a Server](#)

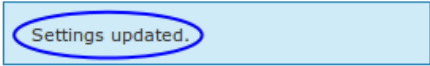
Nagios Network Analyzer Servers					
<b>Name:</b> <input type="text" value="Network Analyzer Producti"/>	<b>IP Address / Hostname:</b> <input type="text" value="10.25.5.70"/>	<b>API Key:</b> <input type="text" value="667328cf72d0521c98bc0fc3175999("/>	<input type="checkbox"/> Use SSL <input type="checkbox"/> Allow invalid certificate	<b>Lookback period 🕒:</b> <input type="text" value="4"/>	<a href="#">Remove</a>

- Select a **Name** for your Nagios Network Analyzer server
  - This is the name that you will see in the Network Analyzer Server drop-down on the Network Report and Network Query report in Nagios XI
- Enter the **IP address** of your Nagios Network Analyzer server.
- Enter the **API Key**, which can be found on the **My Profile** page in the **Nagios Network Analyzer** web interface
  - You can access this page by clicking on the **username** in the upper right corner of any Network Analyzer page.
  - **Note:** If you do not have an API Key on your My Profile page it will show **No API Access**
    - You will need to alter your user via **Administration > User Management**.
    - On the Edit User page, change **API Access** to **Yes**
- Optionally, you can select the **Use SSL** and **Allow invalid certificate** check-boxes
- You can add **more** Nagios Network Analyzer servers by clicking on the **Add a Server** link
- You can **remove** a server that you have previously set up if you wish by clicking on the **Remove** link
- The **Disable Host/Service Tabs** from being shown is only applicable if you are not integrating Nagios Network Analyzer with Nagios XI

After you are finished entering the required information, click on the **Apply Settings** button.

You will receive a message stating the settings were updated.

### Nagios Network Analyzer Integration

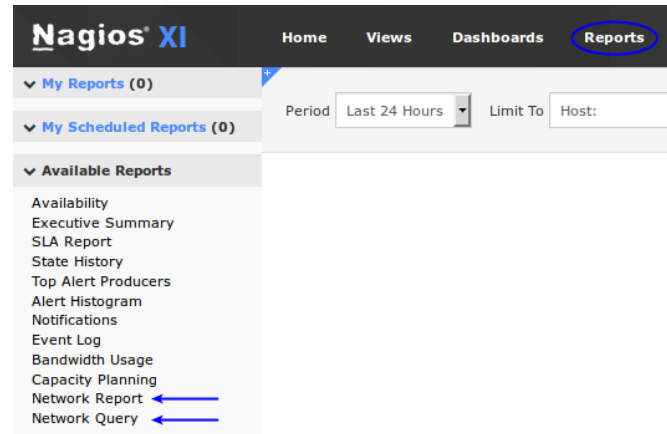


Settings updated.

# Viewing The Nagios Network Analyzer Reports In Nagios XI

There are two Network Analyzer reports available for viewing in Nagios XI:

- [Network Report](#)
- [Network Query](#)



## Network Report

Select your Network Analyzer **Server**, the **source** or **sourcegroup**, and the **Report** to run from the drop-down menus, and click on **Run Report**.

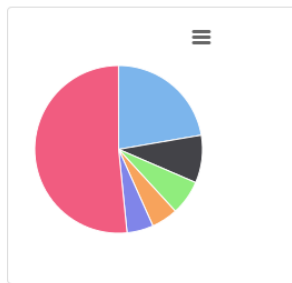
### Network Report

NNA Server:   Source  Sourcegroup  [\[+\] Show Column Excluders](#)

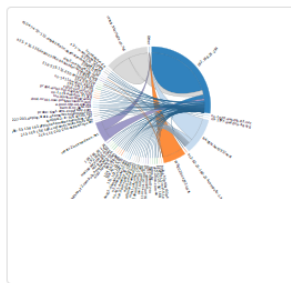
Report to run:

### Report: Top 5 Talkers By Source IP (Last 24 Hours)

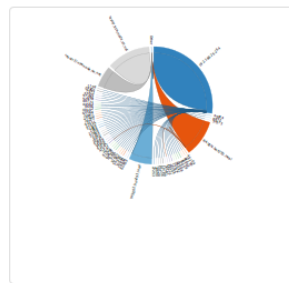
Source: **pfSense** on 10.25.5.70 (Showing top 5 based on Source IP and ordered by Bytes )  
Timeframe: Last 24 Hours



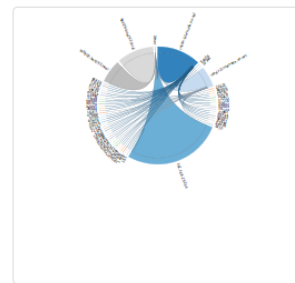
Pie Chart



Chord Diagram (srcip <=> dstip)



Chord Diagram (srcip <=> srcport)



Chord Diagram (srcip <=> dstport)

Start Date	End Date	Duration	Protocol	Source Hostname	Flows	Flow %	Packets	Packet %	Bytes	Byte %	Packets/Sec	Bits/Sec	Bits/Package
2016-11-20 17:48:49	2016-11-21 17:41:05	85936.683	any	192.168.25.254	66661	24.6	190394	28.6	15.56 MB	22.3	2	1518	85
2016-11-20 17:49:11	2016-11-21 17:38:02	85730.823	any	resolv.internode.on.net	20356	7.5	20400	3.1	6.46 MB	9.2	0	631	331
2016-11-20 17:50:34	2016-11-21 17:38:51	85696.653	any	RAVEN.box293.local	5847	2.2	45785	6.9	4.68 MB	6.7	0	458	107
2016-11-20 17:49:13	2016-11-21 17:41:05	85911.491	any	WSE02.box293.local	3366	1.2	37600	5.7	3.6 MB	5.1	0	351	100
2016-11-20 17:49:12	2016-11-21 17:38:54	85781.969	any	resolv2.internode.on.net	9432	3.5	9440	1.4	2.99 MB	4.3	0	292	332

### Network Query

Select your Network Analyzer **server**, the **source** or **sourcegroup**, and the **Query** to run from the drop-down menus, and click on **Run Query**.

Note: By default, only two network queries are included in Nagios XI, however you will be able to view all of the queries that you have saved in Nagios Network Analyzer in Nagios XI. They will show up in the **Query to run** drop-down menu. The following example is a query of **DNS Port 53 Outbound**.

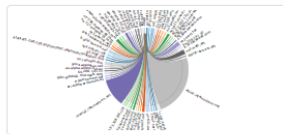
#### Network Query

Nagios Network Analyzer Server:   Source  Sourcegroup  [\[+\] Show Column Excluders](#)

Query to run:

#### Query: DNS Port 53 Outbound

Description : dst port 53 aggregated by dstip  
 Source : pfSense on 10.25.5.70  
 Timeframe: Last 24 Hours  
 Raw Query: dst port 53



Chord Diagram

Flow Start	Flow End	Duration	Source IP	Destination IP	Source Port	Destination Port	Packets	Bytes	Flows	Bytes/Sec	Packets/Sec	Bytes/Packet		
2016-11-21 10:21:04.337	2016-11-22 10:00:51.918	85187.581	*	192.54.112.30	*	*	243	17.05 kB	243	1	0	71	0.0.0.0	h.gtld-servers.net
2016-11-21 19:09:11.511	2016-11-21 20:19:05.863	4194.352	*	205.251.198.229	*	*	8	616 B	8	1	0	77	0.0.0.0	ns-1765.awsdns-28.co.uk
2016-11-21 19:06:31.842	2016-11-21 20:16:26.360	4194.518	*	205.251.197.46	*	*	4	292 B	4	0	0	73	0.0.0.0	ns-1326.awsdns-37.org
2016-11-21 12:23:19.722	2016-11-21 13:33:14.398	4194.676	*	23.61.199.66	*	*	8	552 B	8	1	0	69	0.0.0.0	a7-66.akam.net
2016-11-21 13:25:45.590	2016-11-22 09:42:22.481	72996.891	*	58.65.253.73	*	*	36	2.77 kB	36	0	0	78	0.0.0.0	b.au
2016-11-21 15:17:20.043	2016-11-22 09:42:22.813	66302.770	*	95.100.168.67	*	*	60	4.16 kB	60	0	0	71	0.0.0.0	a5-67.akam.net
2016-11-21 15:17:15.376	2016-11-21 16:27:09.800	4194.424	*	66.231.94.222	*	*	16	1.19 kB	16	2	0	76	0.0.0.0	ns2.exacttarget.com
2016-11-21 13:28:11.001	2016-11-22 09:04:27.046	70576.045	*	205.251.193.237	*	*	14	1.05 kB	14	0	0	77	0.0.0.0	ns-493.awsdns-61.com
2016-11-22 07:57:22.008	2016-11-22 09:07:16.506	4194.498	*	74.116.179.1	*	*	4	288 B	4	0	0	72	0.0.0.0	b4-1.oneworlddns.net
2016-11-22 08:32:28.937	2016-11-22 09:42:23.844	4194.907	*	204.13.250.14	*	*	4	352 B	4	0	0	88	0.0.0.0	ns2.p14.dynect.net
2016-11-21 15:36:33.980	2016-11-21 16:46:27.877	4193.897	*	77.244.244.242	*	*	16	1.13 kB	16	2	0	72	0.0.0.0	ns3.nessus.at
2016-11-21 12:23:46.773	2016-11-21 13:33:41.425	4194.652	*	149.135.80.77	*	*	4	300 B	4	0	0	75	0.0.0.0	149.135.80.77
2016-11-21 19:06:29.749	2016-11-21 20:16:24.023	4194.274	*	205.251.192.166	*	*	4	264 B	4	0	0	66	0.0.0.0	ns-166.awsdns-20.com

## Excluding Columns In Reports

Sometimes, you may have too much data that cannot be displayed properly on a PDF. You can exclude some of the columns that you don't need from the report table by clicking on the Show Column Excluders, and selecting the check-boxes next to the columns that you would like to exclude. This can be done on both of the Nagios Network Analyzer reports.

Here is the same Network Query report but this time with the **Source IP**, **Source Port** and **Destination Port** columns excluded:

### Network Query

Star  Refresh  Email  PDF  JPG

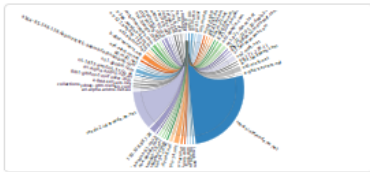
Nagios Network Analyzer Server: Network Analyzer Production (10.25.5.70)  Source  Sourcegroup pfSense [ - ] Hide Column Excluders

Exclude the checked columns from the queries display table : 
  Flow Start  Flow End  Duration  Source IP  Destination IP  Source Port  Destination Port  
 (Useful if generating a PDF with this data)
  Flows  Packets  Bytes  Packets/Sec  Bytes/Sec  Bytes/Packet

Query to run: DNS Port 53 Outbound Run Query

### Query: DNS Port 53 Outbound

Description : dst port 53 aggregated by dstip  
 Source: **pfSense** on 10.25.5.70  
 Timeframe: Last 24 Hours  
 Raw Query: dst port 53



Chord Diagram

Flow Start	Flow End	Duration	Destination IP	Packets	Bytes	Flows	Bytes/Sec	Packets/Sec	Bytes/Packet		
2016-11-21 10:36:10.382	2016-11-22 10:00:51.918	84281.536	192.54.112.30	239	16.79 kB	239	1	0	71	0.0.0.0	h.gttd-servers.net
2016-11-21 19:09:11.511	2016-11-21 20:19:05.863	4194.352	205.251.198.229	8	616 B	8	1	0	77	0.0.0.0	ns-1765.awsdns-28.co.uk
2016-11-21 19:06:31.842	2016-11-21 20:16:26.360	4194.518	205.251.197.46	4	292 B	4	0	0	73	0.0.0.0	ns-1326.awsdns-37.org
2016-11-21 12:23:19.722	2016-11-21 13:33:14.398	4194.676	23.61.199.66	8	552 B	8	1	0	69	0.0.0.0	a7-66.akam.net
2016-11-21 13:25:45.590	2016-11-22 09:42:22.481	72996.891	58.65.253.73	36	2.77 kB	36	0	0	78	0.0.0.0	b.au



## Finishing Up

This completes the documentation on how to integrate Nagios Network Analyzer reports in Nagios XI.

If you have additional questions or other support related questions, please visit us at our Nagios Support Forums:

<https://support.nagios.com/forum>

The Nagios Support Knowledgebase is also a great support resource:

<https://support.nagios.com/kb>