

Quick Start Guide

Get started in 5 minutes!

This document will give a brief introduction about the product and its installation procedure.

INTRODUCTION

NetFlow Analyzer is a complete traffic analysis and network performance monitoring tool that leverages flow technologies like NetFlow, sFlow, IPFIX, NetStream J-Flow, AppFlow and cFlow, to provide real-time visibility into the network traffic patterns and bandwidth performance. NetFlow Analyzer supports all major vendor devices like Cisco, Enterasys Extreme Networks, HP ProCurve, Huawei, Juniper, Riverbed etc. [Click here for other supported devices.](#)

Using Cisco technologies like NBAR, CBQoS, IP SLA, WAAS, and Medianet, NetFlow Analyzer helps in application recognition through deep packet inspection, validates QoS policies, monitors performance metrics like jitter, latency, and packet loss, and provides insight on traffic optimization done by your Cisco devices.

PRE – INSTALLATION

NetFlow Analyzer System Requirements:

NetFlow Analyzer is an integrated flow collector and analyzer, which come with a bundled PGSQL database that requires no configuration. The product also supports MSSQL database.

The recommended hardware requirements for NetFlow Analyzer are as follows:

Parameter	Essential Edition	Distributed Edition	
		Central Server	Collector
Processor	2.4 GHz, Pentium 4 processor, or equivalent	2.4 GHz Dual Core	3.2 GHz Quad core
RAM	4 GB	4 GB	8 GB
Hard-disk space	10GB for database	600 GB	1 TB SATA hard disk
Operating System	64 bit	64 bit	64 bit

Rate of Flow/Second	Processor	RAM	Hard-disk space	Server
0 to 3000	2.4 GHz Quad Core Processor	4 GB	250 GB	-
3000 to 6000	3.2 GHz Quad Core Processor	6 GB	600 GB	64 bit
6000 to 9000	3.2 GHz Quad Core Processor	8 GB	1 TB (High Speed SATA or SAS Drive)	64 bit
9000 and Above	3.2 GHz Quad Core Processor	16 GB	1 TB (High Speed SATA or SAS Drive with RAID 0 or RAID 10 config)	64 bit
100k (With Raw Data)	2 x 3.2 GHz Quad Core Processor	32 GB+	1 TB per day raw (High Speed SATA or SAS Drive with RAID 10 config)	64 bit

Supported Operating Systems

- Windows Server 2012 R1 & R2
- Windows 10
- Windows 8
- Windows 7v
- Windows Vista
- Windows 2008 - R1 & R2
- RedHat Linux 6.0 and above
- Cent OS 6.0 and above
- Fedora 18 and above
- Debian version 6.0 and above
- Ubuntu 12 and above
- SUSE 10 and above

Supported Browsers

- Internet Explorer 10.0 and above
- Mozilla 30 and above
- Google Chrome 35 and above

Note:

NetFlow Analyzer is an integrated flow cNetFlow Analyzer runs in both Windows and Linux, supports NetFlow® versions 5/7/9,sFlow®, cflowd®, J-Flow®, IPFIX® , NetStream®.

Connection ports:

NetFlow Analyzer uses the following ports and we recommend that these ports are not to be blocked or used by other services. The below mentioned port numbers can be changed as per your network requirements. Refer to [user guide](#) for advanced product information or [contact technical support](#).

Web server port: 80, TCP, to connect to NetFlow Analyzer GUI from a web browser. NetFlow Listener port: 9996, UDP, to receive NetFlow exports from routers. Embedded database port: 13306, to connect to the PGSQL database in NetFlow Analyzer. MSSQL port: 1433, port that connects NetFlow Analyzer to a SQL database.

INSTALLATION

Installing in Microsoft Windows:

1. Navigate to your download location, and then launch the executable file.
2. In the welcome screen that appears, click "Next" to go to next screen.
3. To accept the terms of the license agreement and click "Yes".
4. Select Trial version or Free Edition and click "Next".
5. Choose the language and click "Next".
5. Enter the installation location, click "Next".
6. Enter the webserver port and listener port, click "Next".
7. Register for technical support (optional), click "Next" or "Skip".
8. It will show "Extracting files". Select the backend database for NetFlow Analyzer, click "Next".
9. Click "OK" to Antivirus scanners interfering with database files.
10. Installation summary is displayed, click "Finish".

Installing in Linux:

1. Download the BIN file and assign execute permission using the command:
`chmod 777<file_name>.bin` where <file_name> is the name of the downloaded BIN file.

2. Execute the following command: `./<file_name>.bin -console`

Note: During installation if you get an error message stating that the temp folder does not have enough space, try executing this command with the `-is:tempdir <directoryname>` option, where <directoryname> is the absolute path of an existing directory. `./<file_name>.bin -is:tempdir <directory_name>`

3. Follow the instructions as they appear on the screen to successfully install NetFlow Analyzer on to your machine.

POST – INSTALLATION

Prerequisite:

- If there are any Antivirus scanners running and automatic backup applications, then it might interfere with database files and may affect normal functioning of database. Exclude the home directory OpManager_home directory from the antivirus scanners.
- If database is running in remote server, then network connectivity should be up to avoid the chance of data loss.

Configuring flow exports:

The export flow can be done in two ways:

- From configuration management tab provide appropriate ssh credentials and click on "Export flow" option.
- By logging to router and enabling the flows.

The following is an example set of commands issued on a Cisco router to enable NetFlow version 9 on the FastEthernet 0/1 interface and export to the machine 192.168.9.101 (IP Address of NetFlow Analyzer server) on port 9996 (UDP port to export NetFlow packets).

```
router#configure terminal
router-2621(config)#interface FastEthernet 0/1
router-2621(config-if)#ip flow ingress //Apply this command on all interfaces of your device
router-2621(config-if)#exit
router-2621(config)#ip flow-export destination 192.168.9.101 9996
router-2621(config)#ip flow-export source Loopback 1
router-2621(config)#ip flow-export version 9
router-2621(config)#ip flow-cache timeout active 1
router-2621(config)#ip flow-cache timeout inactive 15
router-2621(config)#snmp-server ifindex persist
router-2621(config)#^Z router#write
```

Accessing NetFlow Analyzer:

To access NetFlow Analyzer enter the following in the address bar of the browser:

http://localhost:8080 or http://<server_IP_address>:<port>

Note: If you have changed the default web server port (8080) during installation, use the same port number instead of 8080.

Default Login Credentials

Username: admin

Password: admin

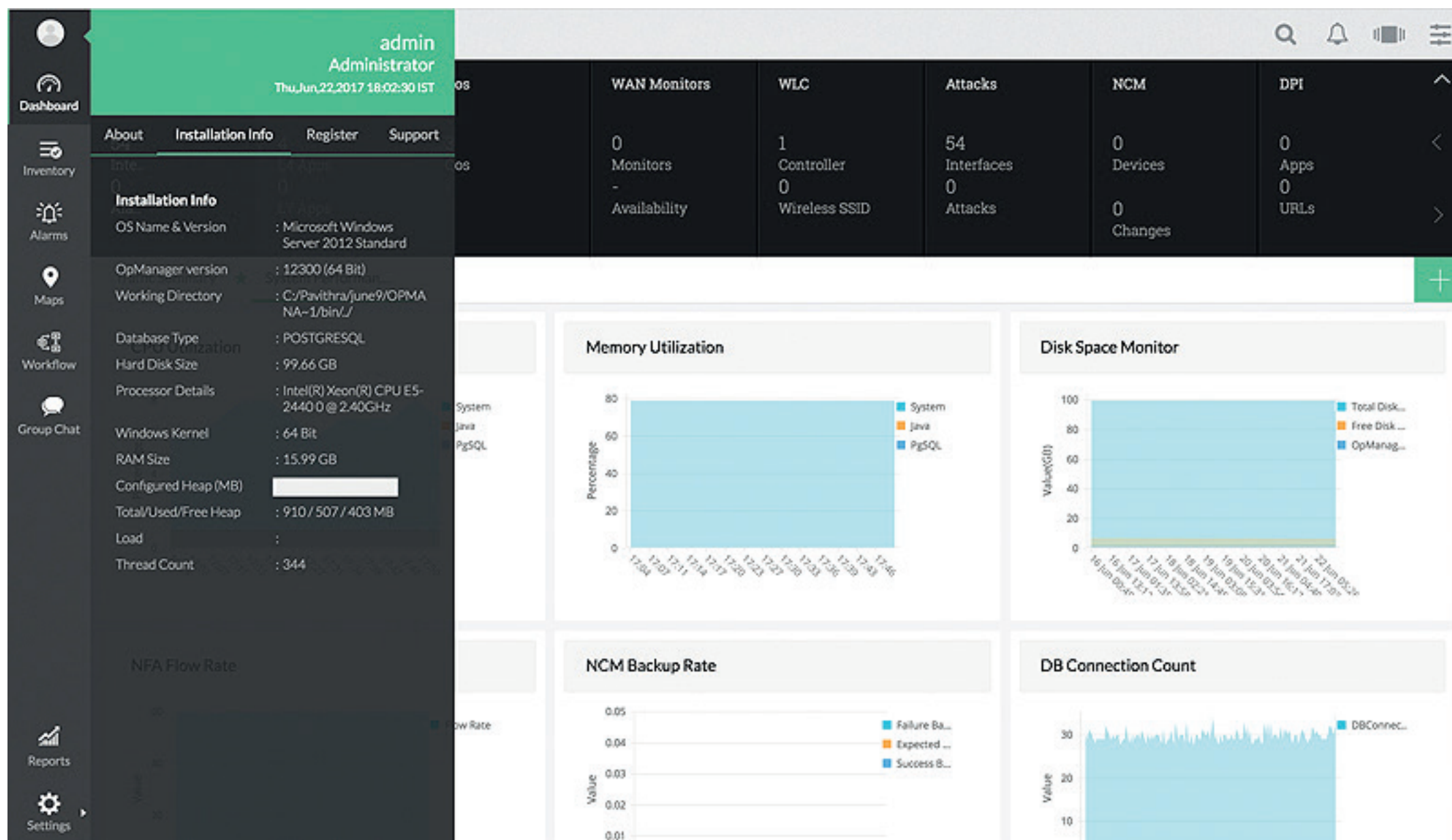
Note: The username and password can be modified later.

Viewing Reports:

Once the device has been configured to export NetFlow packets to the server, NetFlow Analyzer will receive the packets and generate reports automatically. Login the NetFlow Analyzer web client to view NetFlow Reports.

Performance Tuning:

We recommend tuning of java and a few database parameters to improve the performance of the system.



1. To access performance tuning settings, Admin ->Installation Info
 2. Click on configured Heap size and edit it.
 3. After you have updated the values, the server has to be re-started.
- To know more on performance tuning refer [this page](#).

License:

NetFlow Analyzer licensing is based on the number of interfaces to be monitored from your routing and switching devices. For example, consider you have 10 devices, each with 1 LAN, 1 WAN and 1 VLAN interface, which comes to a total of 30 interfaces. If you need reports for only the WAN and VLAN interfaces from each device, then you need a 20-interface license for NetFlow Analyzer. So, it is the monitored interfaces that count and not the total number of interfaces in your network.

Free Edition:

After the download and installation, the product runs as a fully featured trial (excluding add-ons) with last 24 hours time period for 30- days and then switches to free edition. The free edition allows you to manage a maximum of two interfaces with all features of Essential Edition.

Essential Edition:

The Essential Edition of NetFlow Analyzer allows you to manage a maximum of 'n' interfaces (where 'n' is the number of interfaces for which you have purchased the NetFlow Analyzer license).

Distributed Edition:

The Distributed Edition is a scalable bandwidth monitoring, involves a single Central Server and "n" number of Distributed collectors based on number of remote locations. It contains all features of Essential Edition and also reports on CBQoS, NBAR, Billing and Capacity Planning.

Distributed Edition:

NetFlow Analyzer offers FREE technical support during evaluation period. Contact our support team for any product related assistance.

Support: netflowanalyzer-support@manageengine.com

Resources: <https://www.manageengine.com/products/netflow/resources.html>

Forums: <http://forums.netflowanalyzer.com>

Blogs: <http://blogs.manageengine.com/netflowanalyzer>

Help Doc: <http://help.netflowanalyzer.com/>

Request a Free Demo: <http://www.manageengine.com/products/netflow/demo-form.html>

Live Online demo: <http://demo.netflowanalyzer.com/>

Tech Videos: <https://www.youtube.com/channel/UCHLusaahd4nSgesD3xBVeUQ>