

# System Requirements

System requirements depend primarily on the number of IP flows that will be received and processed by the system. The bigger the network traffic volume, the higher the number of IP flows. This reflects strongly on IP flow processing speed and Raw Data file size. The former rises the CPU speed requirement and the latter rises the amount of HDD space needed to store Raw Data.

In addition to this, HDD space requirement rises with the number of Traffic Patterns and subnets you create and with the amount of Raw Data files you decide to store on your system. The number of Traffic Patterns you create also affects the IP flow processing speed.

## Hardware Requirements

### NetFlow Analyzer

Package (max fps)	Assumptions (avg fps, avg nodes)	CPU	RAM	HDD Space
Free (5 fps)	0.5 fps, 8 nodes	Singe-core 1.6 GHz processor	2GB	30 MB
Express (50 fps)	5 fps, 60 nodes	Singe-core 2.0 GHz processor	2GB	300 MB
SME (500 fps)	50 fps, 120 nodes	Singe-core 2.0 GHz processor	3GB	3 GB
Enterprise (5,000 fps)	2,000 fps, 420 nodes	Dual-core 2.0 GHz processor	4GB	120 GB - SAS or SSD in RAID 0 or similar setup with striping
Large Enterprise (50,000 fps)	35,000 fps, 1,400 nodes	Octa-core 2.0 GHz processor	8GB	2.4 TB - SAS or SSD in RAID 0 or similar setup with striping
Unlimited (50,000 + fps)	<a href="#">Contact us</a>			

**General assumptions:** 30 days of Archive and 365 days of Database history stored.



- These are recommended server requirements based on the assumptions given in the table above. Average flows processed and monitoring counters impact all parameters (CPU, RAM and HDD). Archive and Database storing time also impacts HDD space and may require additional external storage.
- NetVizura comes with built-in database which will be installed on the NetVizura server. You can use a different server for your database to achieve better performance but note that NetVizura only supports PostgreSQL version 9.3+.
- NetFlow Analyzer Raw Data files are stored on the NetVizura server. You can store them in some other storage, but keep in mind that it can have a considerable impact on the performance due to large files being transferred across your network between the NetVizura server and Raw data files storage.

### EventLog Analyzer

Max mps	Assumptions (alarms)	CPU	RAM	HDD Space
500 mps	2 alarms	Singe-core 1.6 GHz	2GB	1.2 TB - SAS or SSD in RAID 0 or similar set-up with striping
5,000 mps	5 alarms	Quad-Core 3.0 GHz	2GB	12 TB - SAS or SSD in RAID 0 or similar setup with striping
50,000 mps	10 alarms	Octa-Core 3.6 GHz	8GB	120 TB - SAS or SSD in RAID 0 or similar setup with striping
50,000+ mps	<a href="#">Contact us</a>			

**General assumptions:** 30 days of Database history stored.

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NetFlow Analyzer is highly flexible and you can configure it to minimize system requirements cost. To get more details on configuration, see [NetFlow Settings > Configuration](#).



To learn more on how calculation is made or how to make your own custom HDD space estimation, see [N V NetFlow HDD calculator. xlsx](#).



To learn more on how calculation is made or how to make your own custom HDD space estimation, see [N V EventLog HDD calculator. xlsx](#).



These are recommended server requirements based on the assumptions given in the table above. Maximum messages processed and applied alarms impact all parameters (CPU, RAM and HDD). Database storing time also impacts HDD space and may require additional external storage.

## MIB Browser

Package	CPU	RAM	HDD Space
Minimum	Singe-core 1.6GHz processor	2GB	500 MB

**General assumptions:** lifetime Database history stored.

## Software Requirements

Software	Comes with NetVizura	Notes
Oracle Java 8	Yes (Linux) No (Windows)	Automatically installed with Linux packages Required for Windows installer (download from <a href="#">Oracle site</a> )
Apache Tomcat 6, 7 or 8	Yes (Linux) No (Windows)	Automatically installed with Linux packages Required for Windows installer (download from <a href="#">Apache Tomcat site</a> )
PostgreSQL 9.3+	Yes (Linux) No (Windows)	Automatically installed with Linux packages Required for Windows installer (download from <a href="#">Postgre SQL site</a> ) PostgreSQL 9.5 is recommended

## Supported OS

OS	Versions and Distributions	Notes
Linux Debian	Debian Wheezy 7 (64 bit),	Required for DEB package
Linux Ubuntu	Ubuntu Precise 12.04 (64-bit) Ubuntu Trusty 14.04 (64-bit)	Required for DEB package
Linux CentOS	CentOS 6 (64 bit)	Required for RPM package Autimatically installed with ISO image
Windows	Windows Server 2008 (64 bit) Windows Server 2012 (64 bit)	Required for Windows installer

## Supported Browsers

Browser	Versions	Notes
Chrome	35.0+	-
Firefox	26.0+	-
Internet Explorer	10.0+	-