

# nBox

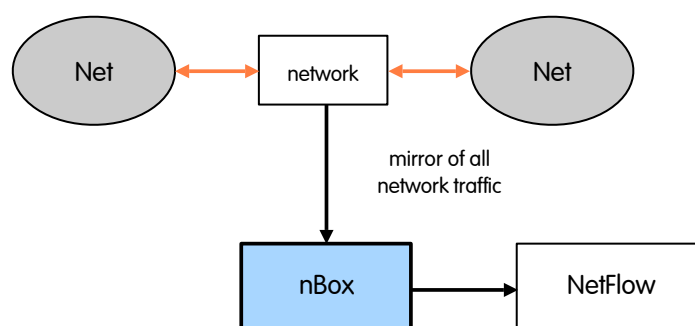
## Flow-based network probe and monitoring appliance

Who is using your network?

What is your network traffic made up of ?

Are there worms or viruses on your network?

What kind of traffic are consuming most of the bandwidth?



nBox is a flow-based network traffic analyzer capable of Cisco NetFlow<sup>TM</sup> data export and analysis. The ability to characterize IP traffic is critical for network availability, performance and troubleshooting. nBox offers a scalable, manageable and reliable solution to provide the necessary data and information to optimize and troubleshoot your network.

nBox includes both a NetFlow<sup>TM</sup> probe (nProbe) and a collector (ntop) for v5/v9/IPFIX NetFlow<sup>TM</sup> flows. It can be effectively used:

- to analyze NetFlow<sup>TM</sup> flows generated by your border gateway
- to replace the embedded, low-speed, NetFlow<sup>TM</sup> probe available on your router.
- as a NetFlow<sup>TM</sup> probe that sends flows towards one or more collectors (ntop or any other compliance NetFlow<sup>TM</sup>/IPFIX collector).
- both as a probe and collector at the same time
- to analyze full speed Gbit networks trunk with no packet loss and delay.

nBox has been developed on Linux, and thanks to an optimized Linux kernel with PF\_RING module that significantly improves the packet capture process, nBox is able to monitor network trunks at full speed without the need of a hardware accelerator card.

Using the embedded and very intuitive web GUI, nBox is easy to set-up and it is immediately ready for use with little configuration effort. Improvements and/or software updates released by the nBox team are immediately available as upgrade via Internet using a simple web interface.



### Key Features:

- High-performance embedded NetFlow™ v5/v9/IPFIX probe (nProbe 4.9.x Pro).
- Embedded Net Flow v5/v9/IPFIX collector (ntop 3.3.x).
- IPv4, IPv6 and MPLS support.
- Easy to set-up and configure.
- No additional delay in both mirrored traffic and existing network.
- User friendly web GUI for nProbe and ntop.
- Multiple collector modes for load balancing or redundancy.
- Firmware and packages upgrade via Internet
- All software resides on flash disk.  
Hard-disk for permanent storing of traffic data is also a possible option.
- Ability to dump NetFlow™ flows on-disk or on Database Server.

### Typical Usage Scenario:

nBox collects traffic using one or more 10/100/1000 Ethernet interfaces that receive packets through a passive tap (like nTap) or a switch mirror ports (spam ports), and sends network flows in NetFlow™ v5/v9 format towards the configured network collector.

### Model Information

	nBox-EL	nBox-L	nBox-M	nBox-H	nBox-10G
Form Factor	Desktop	Rackmount (19")			
Management Port	1				
Input Monitoring Ports (Min/Max)	1/2	1/5	1/9	1/5	1
IPMI port	No	Optional		Yes	
HW Acceleration	None (Software Acceleration via PF_RING)				Tilera or Endace
Line to monitor	10/100 Mbit	10/100/1000 Mbit			10 Gbit
Maximum Traffic Volume	up to 100 Mbit	up to 200 Mbit	up to 500 Mbit	1 Gbit	10 Gbit
Concurrent Flows/s	2000	up to 5000	over 5000	10000	over 10000
Typical Monitoring Schenario	xDSL	100 Mbit Network	Lightly Loaded Gbit Network	Heavy Loaded Gbit Network	Heavy Loaded 10 Gbit Network