

nBox Recorder



High-speed network packet recording system

Modern data networks keep growing and growing in terms of speed. In a few years data throughput increased from 100 Mbit/s to 10 Gbit/s, reaching multi-10 Gbit/s speed.

This has caused network traffic recording activity a challenging experience. In this scenario nTop decided to enclose all the developed technology into a single network appliance: nBox Recorder.

Exploiting the feature of the developed DNA network card driver and the PF_RING kernel module, nBox Recorder is able to save network packets up to 20 Gbit/s without losses using the standard PCAP file format with timestamping up to nanosecond.

Searching for pattern, session or even just IP addresses among stored data might be challenging as well. nBox Recorder creates on-the-fly index trees to solve this problem and to give customer the flexibility to retrieve packets while system is capturing at line rate. Search can be performed on time basis or based on the well-known BPF filtering format. Extracted packets are formatted in PCAP files.

API are available to access indexes, hence advanced users can develop their search tools.

Real-time pcap compression can be added to reduce the effective written data and extend the capture window within the same appliance.

Recording configuration, management and packets retrieval can be performed just using the web interface. Also pcap file analysis can be performed directly on the web interface allowing users to display captured pcap or search result straight on the web browser.

Key Features

- Multi 10 Gbit/s packet to disk with zero packet loss in pcap file format
- On-the-fly indexing and compression/decompression
- Web configuration and management
- API accessible search indexes
- Pcap re-injection into network
- User customisable appliance
- Up to 24 TB of storage available in 2U appliance format
- Appliance available in 1U or 2U rackable format
- Extended pcap analysis immediately available using ntopng graphical web interface

Who is nTop

Ntop project was started in 1998 as an opensource network monitoring tool by Luca Deri. With more than 15 year spent in R&D in the networking world, the nTop team, still led by the project founder, is now a reference in packet capture and analysis community. Mainly known as software developer, nTop team provides also custom solution to customers who is requesting nTop networking expertise.