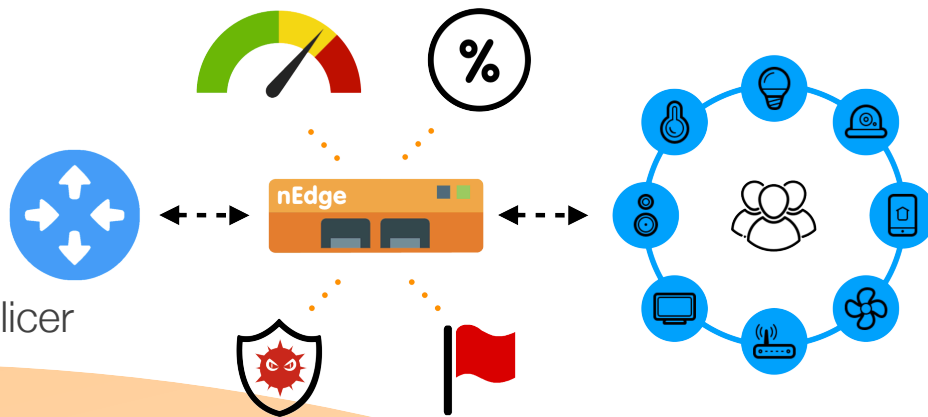


nEdge



Inline Layer-7 Traffic Policer

ntopng Edge is an inline Layer-7 traffic policer that helps controlling complex networks, as well as home networks, accurately managing the many different connected devices that compete to access the Internet.

Internet access is often limited in terms of bandwidth and gets easily saturated when many devices are sharing it. It is common to experience a “bad Internet” in crowded public Internet places, including hotels, bars, restaurants and cruise ships, where even just a single device has the potential to jeopardize the network and negatively affect the Quality of Experience of all the other devices.

A simple Web-Based user interface can be used to control how the available Internet bandwidth is used among the devices. Download and upload bandwidths can easily be policed for any user or device with just a handful of clicks. Similarly, ntopng Edge allows even a finer bandwidth control that takes into account also the Layer-7 application protocols. Layer-7 policies can quickly be set for example to prevent Tor from being used or to throttle BitTorrent.

nEdge is intended to secure the devices at the network edge. It does not replace firewalls, it complements them. An interesting nEdge feature for a network administrator is the ability to generate alerts when a new device connects to the network, and block possibly dangerous protocols like file sharing protocols, SSL traffic with no certificate or VPN tunnels. Furthermore, by enabling Network Discovery, nEdge provides full visibility of the network, discovering even idle devices like printers.

Examples of policies that can be enforced with ntopng Edge are:

“Share the available upload and download speed evenly among all the connected devices”

“Reserve at least 50% of the download bandwidth to important devices”

“Throttle media streaming (NetFlix, YouTube, Facebook Videos) to at most 10% of the available download bandwidth”

“Don’t allow BitTorrent to account for more than 5% of the available upload bandwidth”

“Don’t let the kids play online games now that is dinner time”

“Only allow John to perform Apple updates at night”

Key Features

- Fair bandwidth sharing.
- Bandwidth policing, divided by upload and download.
- Layer-7 application protocols policing, with the ability to block or throttle undesired applications.
- Per-user and per-Layer-7 traffic quota management, based on time and exchanged data.
- Captive portal with user authentication.
- Secure DNS to block malicious domains.
- Users management, with the ability to group devices into users and apply policies to users rather than single devices.
- Malware protection.
- Kids protection, blocking inappropriate content with Child Safe DNS.
- Deploy as a router or as a transparent bridge.
- Ability to define customized routing policies with failover, load balance and priority.