Next Stable Release

• By the end of October we plan to roll-out new stable releases of nProbe, ntopng, nDPI.
• ntopng will move to version 6 as we have changed so many things that the tool deserves a new major release.
• PF_RING has been released this month and it will not be updated.
Proposed Roadmap
ntopng Cloud [1/3]

• In our community we’re used to deal with packet mirror, flows (sFlow/NetFlow/IPFIX) but they are not a solution for everyone.

• Flow devices are often heterogeneous (Cisco ASA and Fortigate just to mention two examples) and do not address issues of:
  ◦ Mobile users that do not sit in the office.
  ◦ Small businesses that have no expertise in operating a monitoring system.
  ◦ Understanding monitoring data and cybersecurity threats.
ntopng Cloud [2/3]

Secure (Encrypted Export) by design

NO LICENSE

Cloud Public Key

ntopng

ntopng Cloud License

Cloud Public Key

ntopng Cloud Public Key

ntopng Cloud Public Key

Cloud Public Key

ntopng Cloud Hosting

ONE LICENSE
ntopng Cloud [3/3]

• Advantages
  ◦ No need to deploy licenses on endpoints but only one license on the ntopng side.
  ◦ Centralised SaaS Model.

• Two License Types
  ◦ Classic: nProbe monitors a network via port mirror or flows.
  ◦ Endpoint: install one nProbe instance per monitored device that can report to the central ntopng, network traffic and resource usage (e.g. disk and memory).
n2disk on nVidia

• For 40/100 Gbit we currently rely on costly FPGA-based network adapters.

• Besides the cost, most of them do not allow multiple applications (e.g. nProbe and n2disk) to co-exist on the same adapter.
nDPI Traffic Filtering: OPNsense/Linux

- nProbe can operate in inline mode by filtering traffic.
- nDPI is a library for DPI and cybersecurity analysis.
- Using ntopng Cloud, we would like to enhance this paradigm and see if we can build a centralized module for protecting and reporting monitored data on a on-premise or cloud console.
- This will open a plethora of opportunities to Internet/Service Providers who want to deploy for their customers monitoring and security solutions based on ntop tools.
Additional Work Items

• How can we integrate AI (Artificial Intelligence) and LLM (Large Language Models) into ntop tools? Is there a business case? If so, what is the problem we want to solve?
• New solution for storing timeseries: ClickHouse, DuckDB?
• Service licenses (pay as you go) for service providers and hosting.
• ntopng dashboard editor for creating custom dashboard/reports.
• More MITRE ATT&CK support in nDPI/ntopng.
• Enhance ntopng VulnScan with third party integrations.